DRILLING AND GEOCHEMICAL REPORT on the FREEGOLD MOUNTAIN PROJECT

June to September, 2017

Whitehorse Mining District

NTS Mapsheet 115I/2, 115I/03, 115I/6, and 115I/7

62°18'N Latitude and 137°12'W Longitude

Work applied to:

YC09221 - 240 (Sey 1 - 20); YC29907 - 914 (Sey 21 - 28); Y 26371 - 372 (Add 5 - 6); 68060 - 061 (Addition 1 - 2); 74488 - 489 (Addition 3 - 4); 75323 (Addition 5); Y 79564 - 568 (Au 1 - 5); YC54143 - 147 (Au 14 - 18); Y 80439 - 440 (Au 6 - 7); YC47242 - 247 (Au 8 - 13); YA95206 - 211 (Bit 1 - 6); YA95212 (Bit 14); YA95221 - 224 (Bit 15 - 18); YA95214 - 220 (Bit 7 - 13); YC19290 - 293 (Feliz 1 - 4); YC19661 - 665 (Feliz 25 - 29); YC19655 - 660 (Feliz 5 - 10); YC47233 (Froh 57); YC19283 - 284 (Happy 2 - 3); YC19286 - 289 (Happy 5 - 8); 75321 - 322 (Homestake 1 - 2); Y 21008 - 011 (Inca 1 - 4); Y 21014 - 015 (Inca 7 - 8); YC30165 - 200 (Mag 1 - 36); YC37001 - 008 (Mag 37 - 44); YC09250 (More 10); YC09243 - 248 (More 3 - 8); YC09336 - 337 (More 31 - 32); YC09279 - 285 (Nuc 1 - 7); YC47421 - 423 (Nuc 8 - 10); YA51198-218 (Nucleus 10 - 30); YA51190 (Nucleus 2); YA51192 (Nucleus 4); YA60262 - 265 (Nucleus 41 - 44); YA60268 - 269 (Nucleus 47 - 48); YA51194 (Nucleus 6); YA51196 (Nucleus 8); Y 25959 (Rev 11); Y 25961 - 962 (Rev 13 - 14); YA95213 (Rev-Cop 1); Y 24017 - 020 (Revenue 13 - 16); Y 24025 - 026 (Revenue 21 - 22); Y 26361 - 362 (Revenue 3 - 4); Y 26365 - 366 (Revenue 5 - 6); Y 26404 - 405 (Revenue 7 - 8); 67180 - 187 (Revenue Copper 1 - 8); Y 21272 (Revenue No. 11); Y 21270 (Revenue No. 9); YA97441 - 443 (Subtract 1 - 3); YC57842 - 843 (Goldy 105 - 106); YC57844 - 845 (Goldy 107 - 108); YC65775 - 784 (Goldy 109 - 118); YC57816 - 831 (Goldy 79 - 94); YC57832 - 833 (Goldy 95 - 96); YC57834 - 841 (Goldy 97 - 104); YC18864 - 91 (Hill 14, 16, 18, 20 - 40, 50, 52, 54, 56); YC19653 - 654 (Tinta 1 - 2); YC37129 - 130 (Tinta 101 - 102); YC37131 - 132 (Tinta 103 - 104); YC41392 - 397 (Tinta 105 - 110); YC37127 - 128 (Tinta 11 - 12); YC47385 - 386 (Tinta 111 - 112); YC41398 - 400 (Tinta 121 - 123); YC46501 - 509 (Tinta 124 - 132); YC47311 - 368 (Tinta 14 - 72); YC18660 - 667 (Tinta 3 - 10); YC65081 - 082 (Tinta 73 - 74); YC47369 - 384 (Tinta 77 - 92); 15494 (Augusta); YC41307 - 339 (Big 1 - 33); YC54330 (Big 34); YC47429 - 444 (Big 35 - 50); YC53685 - 692 (Big 51 - 58); YC47445 - 460 (Big 59 - 74); YB05903 - 908 (Bynordac 1 - 6); YA92757 - 760 (Cabage 1 - 4); YA92768 - 769 (Cabage 13 - 14); YA92770 - 777 (Cabage 17 - 24); YA92761 - 767 (Cabage 5 - 11); YC19564 - 577 (Dart 1 - 14); YC30038 - 043 (Dart 15 - 20); YC41340 - 349 (Dart 21 - 30); YC41350 (Dart 31); YC41351 - 357 (Dart 32 - 39); YC54139 - 141 (Dart 39 - 41); YC54142 (Dart 42); YC65083 - 084 (Dart 43 - 44); YC65085 - 086 (Dart 45 - 46); 63639 - 641 (Excelsior 1 - 3); YC95142 (Free 1); YC95115 - 117 (Free 10 - 12); YD17051 - 073 (Free 107 - 129); YD17118 (Free 13); YD17201 - 219 (Free 130 - 148); YD17113 (Free 14); YD18382 - 403 (Free 149 - 170); YD17136 (Free 15); YD17130 (Free 16); YD17139 (Free 17); YD18406 - 409 (Free 173 - 176); YD17137 (Free 18); YD17141 (Free 19); YC95105 - 112 (Free 2 - 9); YD17140 (Free 20); YD17142 - 148 (Free 21 - 27); YD16920 - 946 (Free 28 - 54); YD16967 (Free 55); YD16947 - 949 (Free 56 - 58); YD16968 (Free 59); YD16950 - 966 (Free 60 - 76); YD16970 - 999 (Free 77 - 106); YD16969 (Free A 59); YC40095 - 102 (Froh 1 - 8); YC40917 - 924 (Froh 21 - 28); YC40925 - 934 (Froh 29 - 38); YC41358 - 365 (Froh 39 - 46); YC47223 - 232 (Froh 47 - 56); YC47234 - 239 (Froh 58 - 63); YC47240 - 241 (Froh 64 - 65); YC47424 - 426 (Froh 66 - 68); YC47427 - 428 (Froh 69 - 70); YC40103 - 114 (Froh 9 - 20); YC30062 - 097 (Glen 1 - 36); YC41366 - 391 (Glen 37 - 62); YC54137 - 138 (Glen 63 - 64); 15519 (Gold Star); Y 80600 (Goldstar); YB37988 (Goldstar 1); YC18716 - 719 (Goldy 1 - 4); YC30019 - 036 (Goldy 25 - 42); YC30127 (Goldy 43); YC30037 (Goldy 44); YC47387 - 420 (Goldy 45 - 78); YC30123 - 126 (Goldy 5 - 8); YC18724 - 739 (Goldy 9 - 24); 90465 - 468 (Greenstone 1 - 4); 91056 (Greenstone 5); Y 21094 (Greenstone 6); YC19282 (Happy 1); YC19285 (Happy 4); 63638 (Liberty); 15505 (Margarete); YC37009 - 047 (Nitro 1 - 39); YC37048 (Nitro 40); YC37049 (Nitro 41); YC37050 (Nitro 42); YC37051 (Nitro 43); YC37052 (Nitro 44); YC37053 (Nitro 45); YC37054 (Nitro 46); YC37055 (Nitro 47); YC37056 (Nitro 48); YB37987 (Pauline 1); 15549 (Peerless); 73464 - 465 (Progress 1 - 2); 15677 (Protection); YC40076 - 094 (Rage 1 - 19); YA92082 - 083 (Rick 1 - 2); YA92748 - 754 (Rick 15 - 21); YA92084 - 095 (Rick 3 - 14); 60420 - 421 (Shearzone 1 - 2); 60422 - 423 (Vindicator 1 - 2)

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HALIFAX, NOVA SCOTIA

FEBRUARY 2018

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1 – INTRODUCTION

1.1 Authorization and Purpose

This report was prepared for Triumph Gold Corp Ltd. ("Triumph Gold" or "TGC") to document the methods and results of exploration activities on mineral claims held by the Company at its Freegold Mountain Project ("the Project"). The mineral deposits of interest are related to copper and gold at the Revenue and Nucleus properties, and gold, silver, copper, lead and zinc at the Tinta Property.

Triumph Gold is a public company, incorporated in Vancouver BC and trading on the TSX Venture Exchange (TIG: TSX-V). Triumph Gold has a 100% ownership in the Freegold Mountain Project located in the Whitehorse Mining District near the town of Carmacks, Yukon. The Project contains the Nucleus and Revenue copper and gold mineral resources, the Tinta polymetallic vein resource and a number of other precious and base metal showings.

The 2017 field program was conducted under the supervision of Tony Barresi, VP of Exploration with Triumph Gold. Field activities at Tinta included soil sampling, trenching, and rock sampling and at Nucleus and Revenue included rock sampling and diamond drilling. Fieldwork was conducted by employees of Triumph Gold under the management of Tony Barresi and Jesse R. Halle, P.Geo and president of Halle Geological Services Ltd.

This report is prepared to satisfy the requirements of the annual technical report as put forth by the Energy, Mines and Resources Branch of the Yukon Government. Preparation of this Report was undertaken by Jesse R. Halle of Halle Geological Services Ltd.

1.2 Sources of Information

Exploration data used in this report was made available to the author with permission of TGC. The author spent 80 days during the 2017 exploration season in direct contract employment to TGC providing ample opportunity to observe active data collection and field methods.

Claim information was supplied by the Yukon Mining Recorders Office in Whitehorse, Yukon. The report also draws on general geologic information available in the public domain.

1.3 Units and Currency

Unless otherwise stated, all units used in this report are metric. The co-ordinate system is used in this report is Universal Transverse Mercator (UTM) Zone 8N, and the datum used is North American Datum 1983 (NAD83). Gold and Silver concentrations are reported in g/t or oz/t and the concentration of other elements of interest are reported in parts-per-million (ppm). All currency values in the report are expressed in dollars CAD as of 2017.

2 – RELIANCE ON OTHER EXPERTS

When appropriate, the author has relied upon information previously reported in historical reports, including text excerpts and direct reproduction of figure information to illustrate discussions in the text.

For the purpose of this Report, the author has relied on an ownership and claim information from the Yukon Mining Recorder. The author also relies on topographic maps published by the Government of Canada and geological maps produced by the Yukon Geological Survey in addition to imagery obtained from Google Earth.

3 – PROPERTY LOCATION AND DESCRIPTION

3.1 Location

The Freegold Mountain Project is located approximately 200km northwest of the city of Whitehorse and 70km northwest of the town of Carmacks Yukon (Figure 3.1). Carmacks is situated on the Klondike Highway (Yukon Highway 3), a paved all-weather highway connecting Whitehorse to Dawson City. From Carmacks, the unpaved Mount Freegold Road, along with subsidiary unpaved roads, provides access to a large portion of the Project including the Revenue and Nucleus Properties. Whitehorse and the town of Carmacks serve as supply centres for exploration in the area.

The Project covers parts of National Topographic Survey (NTS) map sheets 115I/2, 115I/3, 115I/6, and 115I/7, and is centred approximately at 62°18'N latitude and 137°12'W longitude.

The Revenue and Nucleus Properties are located nearing the western end of the Freegold Mountain Project immediately south of Big Creek. The Revenue camp is located on a gravel bench (placer tailings) on the west side of Revenue Creek near its confluence with Big Creek. This camp has been the base for most exploration in recent times. From 2006 to 2011, Northern Freegold Resources Ltd. carried out all work from the Revenue camp. In May of 2017 much of the ailing infrastructure of the camp was replaced or refurbished.

The Tinta Property is approximately 11km along a tertiary road, which leads north from its start at approximately kilometre 53 of the Mount Freegold Road.

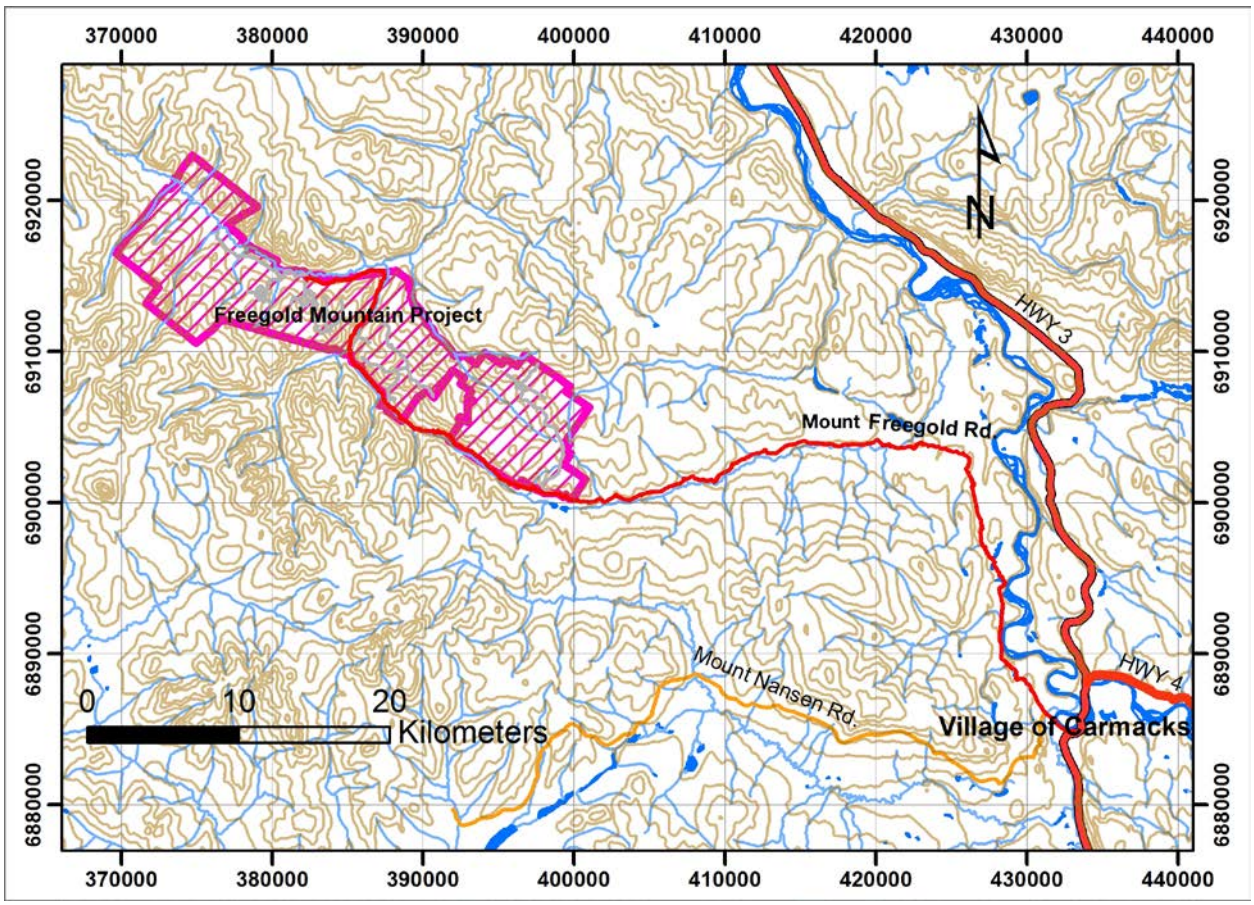


Figure 3.1: Property location map, Freegold Mountain Project (1:500,000 scale)

3.2 Description of Mineral Tenure

The Freegold Mountain Project consists of 1066 contiguous quartz claims (Table 3.1) within the Whitehorse Mining District. Included in the total, are the quartz claims listed on Operating (Work) Permit LQ00426a which hosts the Nucleus and Revenue gold and copper resources and those listed on Operating Permit LQ00447 which hosts the Tinta polymetallic resource. The claims are held under the Yukon Territory Quartz Mining Act and Quartz Mining Land Use Regulation and are administered by the Yukon Government through the mining recorder's office. The locations of the claims are shown in Figures 3.2a to 3.2d.

The lands of the Freegold Mountain Project are Yukon Territorial lands under which mining claims are physically staked by erecting two legal posts at each end of the location line (defined as a straight line opened or indicated throughout between No. 1 and No. 2 location posts of a mineral claim and joining them). An application to record the claim with the Mining Recorder of the mining district within which the claim is situated is submitted within 30 days from the date of staking. The application date is the recording date of the claim and the claim is in good standing for one year after the date it is recorded. During this one-year period, the claim holder is required to do $100.00 worth of representation or assessment work on the claim. The fees for claim filing are $5.00 per claim per year. Claim holders can apply for up to five years of work at once if the claim is in its lapsing year or up to four years if the claim

is not scheduled to lapse in the year of application. Payment in lieu of representation work can also be made. The annual fees and work commitments due on all claims comprising the Property are in compliance and all of the claims are in good standing. None of the claims of the Property have been surveyed.

Table 3.1: Status of mineral claims in the Freegold Mountain Project

Operating Permit	Grant Number	Claim Name	No. of claims	NTS	Anniversary Date	Owner and Work Done By
LQ00417	YC09221 - 240	Sey 1 - 20	20	115I06	2030-02-28	Triumph Gold Corp. - 100%
LQ00417	YC29907 - 914	Sey 21 - 28	8	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 26371 - 372	Add 5 - 6	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	68060 - 061	Addition 1 - 2	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	74488 - 489	Addition 3 - 4	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	75323	Addition 5	1	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 79564 - 568	Au 1 - 5	5	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YC54143 - 147	Au 14 - 18	5	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 80439 - 440	Au 6 - 7	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YC47242 - 247	Au 8 - 13	6	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YA95206 - 211	Bit 1 - 6	6	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YA95212	Bit 14	1	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YA95221 - 224	Bit 15 - 18	4	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YA95214 - 220	Bit 7 - 13	7	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YC19290 - 293	Feliz 1 - 4	4	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC19661 - 665	Feliz 25 - 29	5	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC19655 - 660	Feliz 5 - 10	6	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC47233	Froh 57	1	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC19283 - 284	Happy 2 - 3	2	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC19286 - 289	Happy 5 - 8	4	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	75321 - 322	Homestake 1 - 2	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 21008 - 011	Inca 1 - 4	4	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 21014 - 015	Inca 7 - 8	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YC30165 - 200	Mag 1 - 36	36	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC37001 - 008	Mag 37 - 44	8	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YC09250	More 10	1	115I06	2030-02-28	Triumph Gold Corp. - 100%
LQ00426	YC09243 - 248	More 3 - 8	6	115I06	2030-02-28	Triumph Gold Corp. - 100%
LQ00426	YC09336 - 337	More 31 - 32	2	115I06	2030-02-28	Triumph Gold Corp. - 100%
LQ00426	YC09279 - 285	Nuc 1 - 7	7	115I06	2030-02-28	Triumph Gold Corp. - 100%
LQ00426	YC47421 - 423	Nuc 8 - 10	3	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00426	YA51198-218	Nucleus 10 - 30	21	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	YA51190	Nucleus 2	1	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	YA51192	Nucleus 4	1	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	YA60262 - 265	Nucleus 41 - 44	4	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	YA60268 - 269	Nucleus 47 - 48	2	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	YA51194	Nucleus 6	1	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	YA51196	Nucleus 8	1	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 25959	Rev 11	1	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 25961 - 962	Rev 13 - 14	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YA95213	Rev-Cop 1	1	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 24017 - 020	Revenue 13 - 16	4	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 24025 - 026	Revenue 21 - 22	2	115I06	2032-02-28	Triumph Gold Corp. - 100%

Operating Permit	Grant Number	Claim Name	No. of claims	NTS	Anniversary Date	Owner and Work Done By
LQ00426	Y 26361 - 362	Revenue 3 - 4	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 26365 - 366	Revenue 5 - 6	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 26404 - 405	Revenue 7 - 8	2	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	67180 - 187	Revenue Copper 1 - 8	8	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 21272	Revenue No. 11	1	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	Y 21270	Revenue No. 9	1	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00426	YA97441 - 443	Subtract 1 - 3	3	115I06	2032-02-28	Triumph Gold Corp. - 100%
LQ00447	YC57842 - 843	Goldy 105 - 106	2	115I02	2023-02-28	Triumph Gold Corp. - 100%
LQ00447	YC57844 - 845	Goldy 107 - 108	2	115I02	2025-02-28	Triumph Gold Corp. - 100%
LQ00447	YC65775 - 784	Goldy 109 - 118	10	115I07	2024-02-28	Triumph Gold Corp. - 100%
LQ00447	YC57816 - 831	Goldy 79 - 94	16	115I02	2027-02-28	Triumph Gold Corp. - 100%
LQ00447	YC57832 - 833	Goldy 95 - 96	2	115I02	2023-02-28	Triumph Gold Corp. - 100%
LQ00447	YC57834 - 841	Goldy 97 - 104	8	115I02	2027-02-28	Triumph Gold Corp. - 100%
LQ00447	YC18864 - 91	Hill 14, 16, 18, 20 - 40, 50, 52, 54, 56	28	115I07	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC19653 - 654	Tinta 1 - 2	2	115I07	2030-02-28	Triumph Gold Corp. - 100%
LQ00447	YC37129 - 130	Tinta 101 - 102	2	115I07	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC37131 - 132	Tinta 103 - 104	2	115I07	2029-02-28	Triumph Gold Corp. - 100%
LQ00447	YC41392 - 397	Tinta 105 - 110	6	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC37127 - 128	Tinta 11 - 12	2	115I07	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC47385 - 386	Tinta 111 - 112	2	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC41398 - 400	Tinta 121 - 123	3	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC46501 - 509	Tinta 124 - 132	9	115I06	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC47311 - 368	Tinta 14 - 72	58	115I07	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC18660 - 667	Tinta 3 - 10	8	115I07	2028-02-28	Triumph Gold Corp. - 100%
LQ00447	YC65081 - 082	Tinta 73 - 74	2	115I06	2029-02-28	Triumph Gold Corp. - 100%
LQ00447	YC47369 - 384	Tinta 77 - 92	16	115I07	2028-02-28	Triumph Gold Corp. - 100%
	15494	Augusta	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC41307 - 339	Big 1 - 33	33	115I06	2030-02-28	Triumph Gold Corp. - 100%
	YC54330	Big 34	1	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC47429 - 444	Big 35 - 50	16	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC53685 - 692	Big 51 - 58	8	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC47445 - 460	Big 59 - 74	16	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YB05903 - 908	Bynordac 1 - 6	6	115I06	2027-02-28	Triumph Gold Corp. - 100%
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	YA92770 - 777	Cabage 17 - 24	8	115I06	2027-02-28	Triumph Gold Corp. - 100%
	YA92761 - 767	Cabage 5 - 11	7	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC19564 - 577	Dart 1 - 14	14	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC30038 - 043	Dart 15 - 20	6	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC41340 - 349	Dart 21 - 30	10	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC41350	Dart 31	1	115I06	2029-02-28	Triumph Gold Corp. - 100%
	YC41351 - 357	Dart 32 - 39	8	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC54139 - 141	Dart 39 - 41	3	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC54142	Dart 42	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC65083 - 084	Dart 43 - 44	2	115I06	2026-02-28	Triumph Gold Corp. - 100%
	YC65085 - 086	Dart 45 - 46	2	115I06	2025-02-28	Triumph Gold Corp. - 100%
	63639 - 641	Excelsior 1 - 3	3	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC95142	Free 1	1	115I06	2023-02-28	Triumph Gold Corp. - 100%

Operating Permit	Grant Number	Claim Name	No. of claims	NTS	Anniversary Date	Owner and Work Done By
	YC95115 - 117	Free 10 - 12	3	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17051 - 073	Free 107 - 129	23	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17118	Free 13	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17201 - 219	Free 130 - 148	19	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17113	Free 14	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD18382 - 403	Free 149 - 170	22	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17136	Free 15	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17130	Free 16	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17139	Free 17	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD18406 - 409	Free 173 - 176	4	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17137	Free 18	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17141	Free 19	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC95105 - 112	Free 2 - 9	8	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17140	Free 20	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD17142 - 148	Free 21 - 27	7	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16920 - 946	Free 28 - 54	27	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16967	Free 55	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16947 - 949	Free 56 - 58	3	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16968	Free 59	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16950 - 966	Free 60 - 76	17	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16970 - 999	Free 77 - 106	30	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YD16969	Free A 59	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC40095 - 102	Froh 1 - 8	8	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC40917 - 924	Froh 21 - 28	8	115I06	2027-02-28	Triumph Gold Corp. - 100%
	YC40925 - 934	Froh 29 - 38	10	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC41358 - 365	Froh 39 - 46	8	115I06	2026-02-28	Triumph Gold Corp. - 100%
	YC47223 - 232	Froh 47 - 56	10	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC47234 - 239	Froh 58 - 63	6	115I06	2026-02-28	Triumph Gold Corp. - 100%
	YC47240 - 241	Froh 64 - 65	2	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC47424 - 426	Froh 66 - 68	3	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC47427 - 428	Froh 69 - 70	2	115I06	2026-02-28	Triumph Gold Corp. - 100%
	YC40103 - 114	Froh 9 - 20	12	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC30062 - 097	Glen 1 - 36	36	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC41366 - 391	Glen 37 - 62	26	115I06	2026-02-28	Triumph Gold Corp. - 100%
	YC54137 - 138	Glen 63 - 64	2	115I06	2025-02-28	Triumph Gold Corp. - 100%
	15519	Gold Star	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	Y 80600	Goldstar	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YB37988	Goldstar 1	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC18716 - 719	Goldy 1 - 4	4	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC30019 - 036	Goldy 25 - 42	18	115I03	2028-02-28	Triumph Gold Corp. - 100%
	YC30127	Goldy 43	1	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC30037	Goldy 44	1	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC47387 - 420	Goldy 45 - 78	34	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC30123 - 126	Goldy 5 - 8	4	115I06	2028-02-28	Triumph Gold Corp. - 100%
	YC18724 - 739	Goldy 9 - 24	16	115I03	2028-02-28	Triumph Gold Corp. - 100%
	90465 - 468	Greenstone 1 - 4	4	115I06	2025-02-28	Triumph Gold Corp. - 100%
	91056	Greenstone 5	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	Y 21094	Greenstone 6	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC19282	Happy 1	1	115I06	2028-02-28	Triumph Gold Corp. - 100%

Operating Permit	Grant Number	Claim Name	No. of claims	NTS	Anniversary Date	Owner and Work Done By
	YC19285	Happy 4	1	115I06	2028-02-28	Triumph Gold Corp. - 100%
	63638	Liberty	1	115I06	2027-02-28	Triumph Gold Corp. - 100%
	15505	Margarete	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC37009 - 047	Nitro 1 - 39	39	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC37048	Nitro 40	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC37049	Nitro 41	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC37050	Nitro 42	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC37051	Nitro 43	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC37052	Nitro 44	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC37053	Nitro 45	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC37054	Nitro 46	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC37055	Nitro 47	1	115I06	2023-02-28	Triumph Gold Corp. - 100%
	YC37056	Nitro 48	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YB37987	Pauline 1	1	115I06	2027-02-28	Triumph Gold Corp. - 100%
	15549	Peerless	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	73464 - 465	Progress 1 - 2	2	115I06	2025-02-28	Triumph Gold Corp. - 100%
	15677	Protection	1	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YC40076 - 094	Rage 1 - 19	29	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YA92082 - 083	Rick 1 - 2	2	115I06	2027-02-28	Triumph Gold Corp. - 100%
	YA92748 - 754	Rick 15 - 21	7	115I06	2025-02-28	Triumph Gold Corp. - 100%
	YA92084 - 095	Rick 3 - 14	12	115I06	2025-02-28	Triumph Gold Corp. - 100%
	60420 - 421	Shearzone 1 - 2	2	115I06	2025-02-28	Triumph Gold Corp. - 100%
	60422 - 423	Vindicator 1 - 2	2	115I06	2025-02-28	Triumph Gold Corp. - 100%

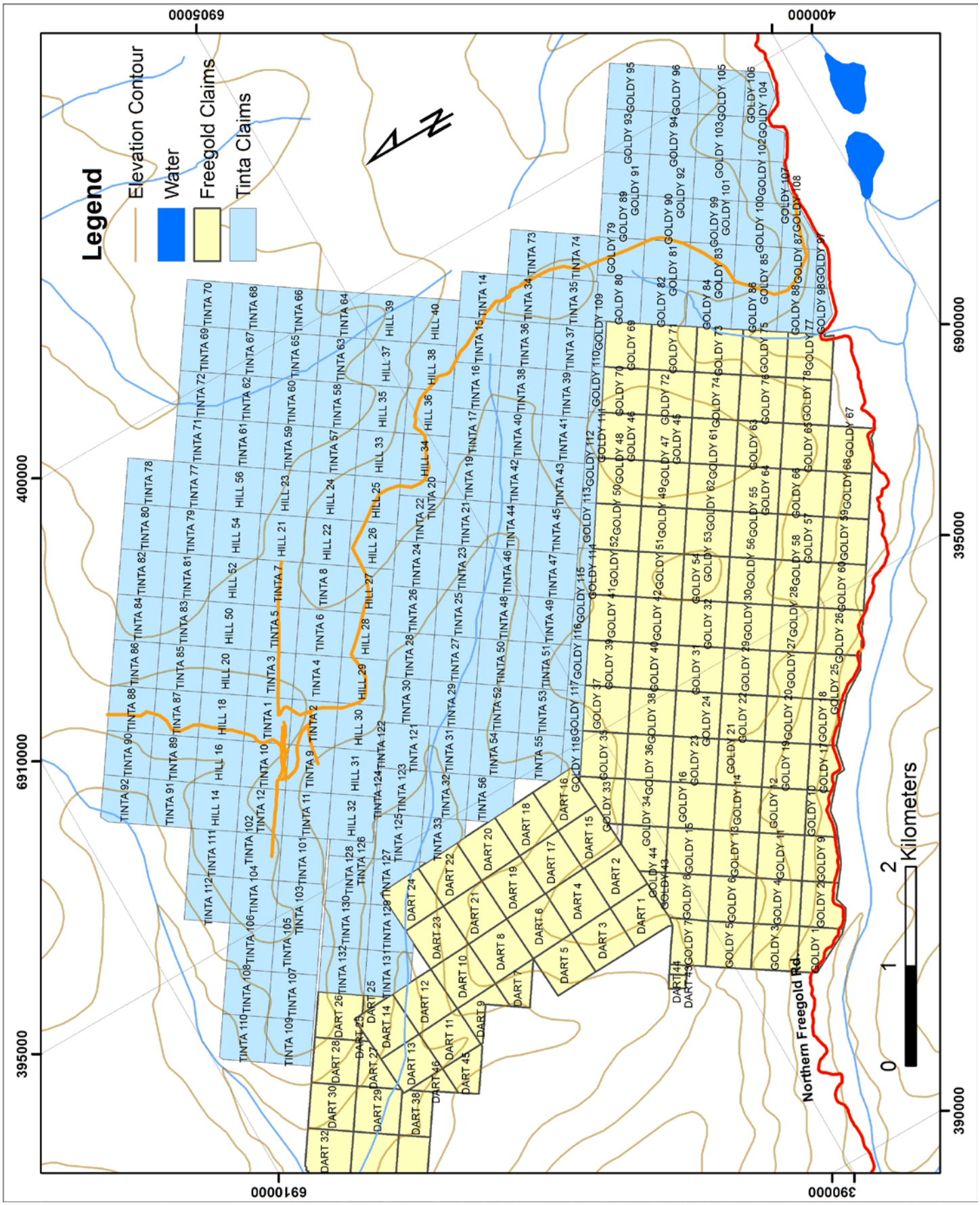


Figure 3.2a: Claim location map, Freegold Mountain Project (1:50,000 scale)

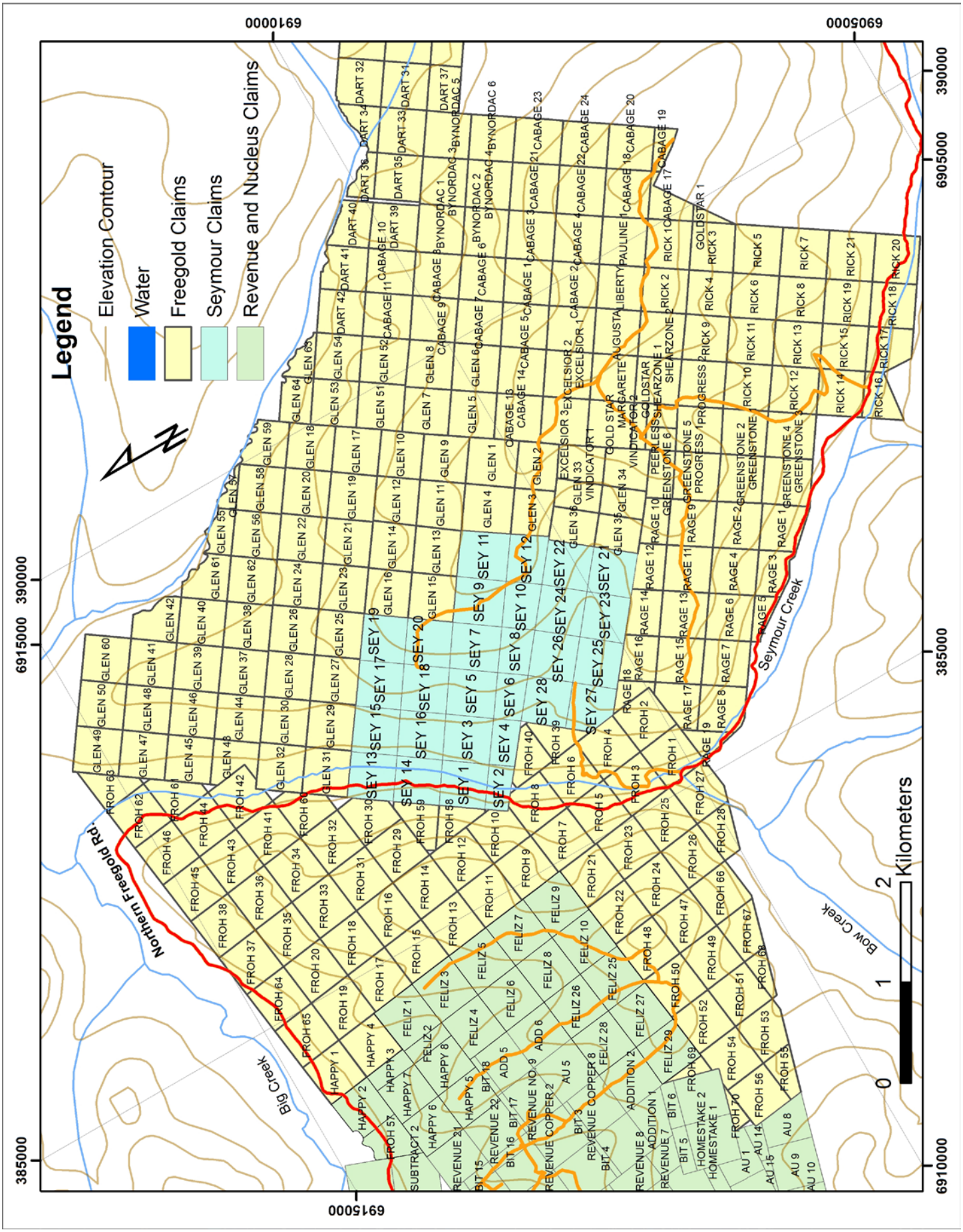


Figure 3.2b: Claim location map, Freegold Mountain Project (1:50,000 scale)

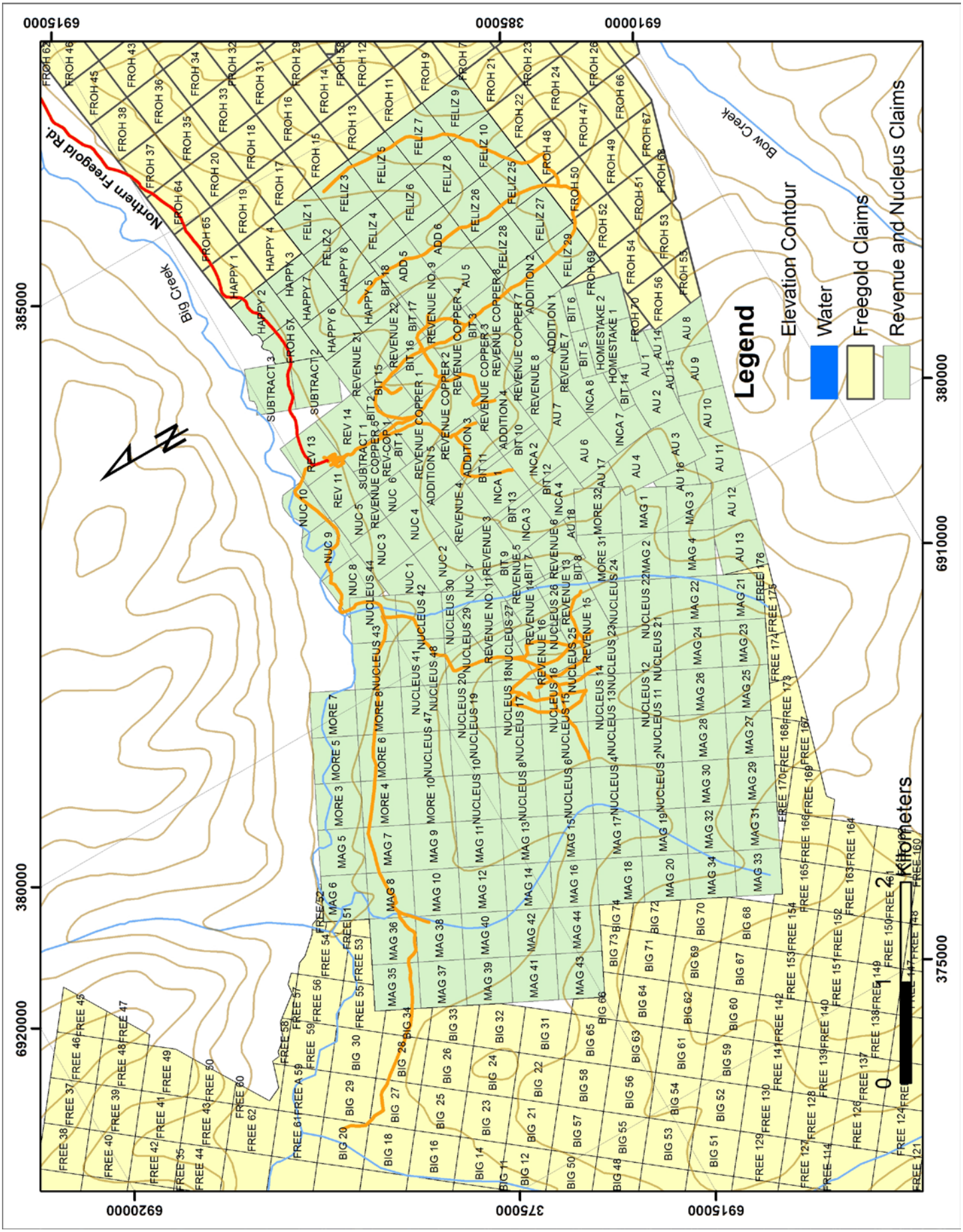


Figure 3.2c: Claim location map, Freegold Mountain Project (1:50,000 scale)

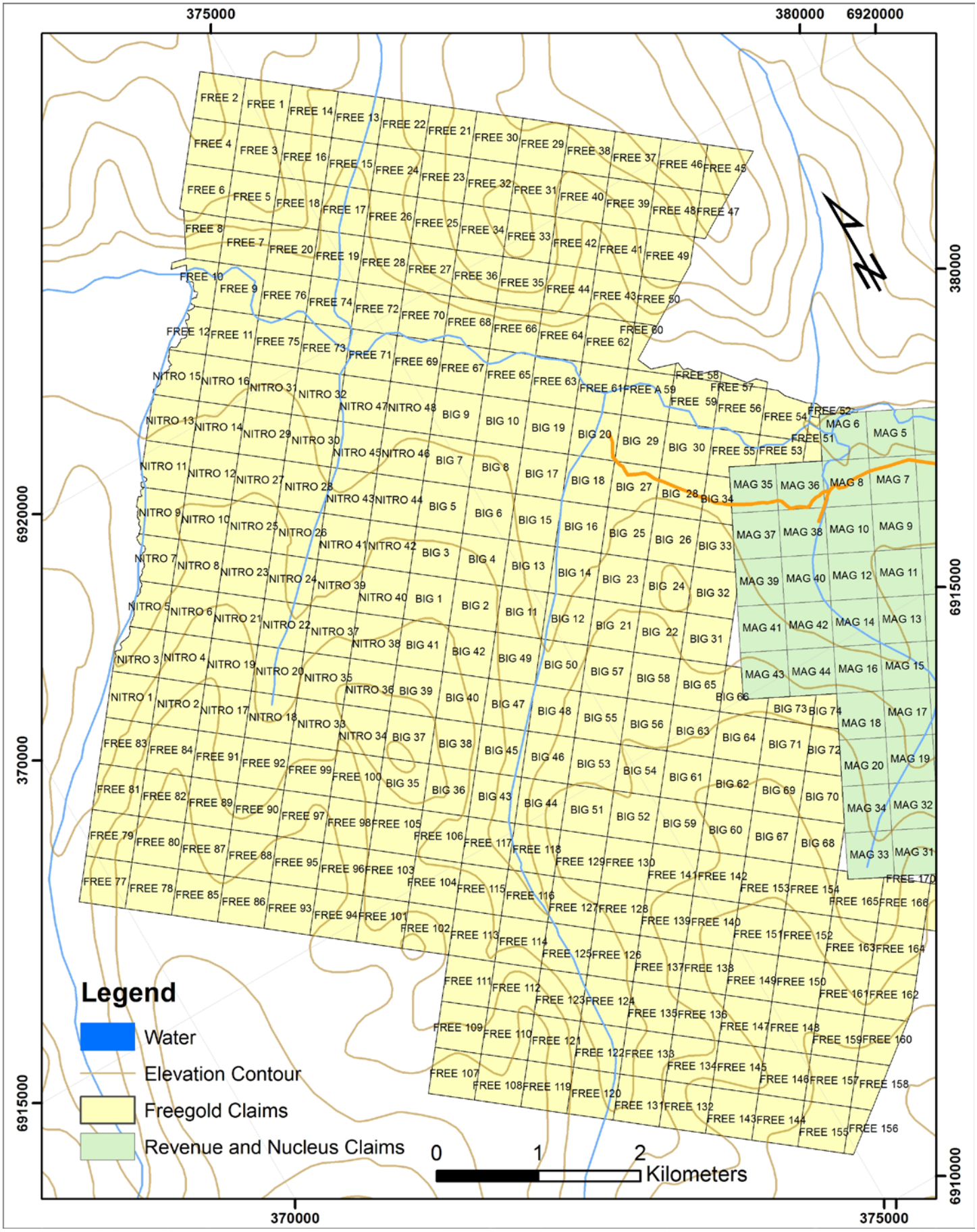


Figure 3.2d: Claim location map, Freegold Mountain Project (1:50,000 scale)

3.3 Royalties

On March 15, 2006, Northern Freegold Resources Ltd. entered into an option agreement with ATAC Resources Ltd. to earn a 50% interest in the Golden Revenue property which includes the Nucleus, Revenue, Nitro, and Seymour properties. On August 22, 2007, this agreement was cancelled and a new agreement to acquire a 100% interest in the property was entered into with ATAC. Under the terms of the new agreement, NFR was required, in addition to the $35,000 cash payments and issuance of 400,000 shares already made per the previous agreement, to:
(1) make aggregate cash payments of $150,000 to the optionor as follows:
(i) $20,000 on execution of the agreement (paid);
(ii) $30,000 on or before May 1, 2008 (paid);
(iii) $100,000 on or before May 1, 2009 (paid);
(2) issue and deliver an aggregate of 1,900,000 fully paid and non-assessable common shares of the Company to the optionor as follows:
(i) 300,000 shares on execution of the agreement (issued);
(ii) 600,000 shares on or before May 1, 2008 (issued);
(iii) 1,000,000 shares on or before May 1, 2009 (issued);
ATAC will retain a 1% NSR on the GR Property. An underlying 2% NSR on the Revenue Zone (part of the property) exists and a 1.5% NSR can be purchased for $600,000. An underlying 2% NSR on the Nucleus Zone has been purchased for 200,000 shares (issued).

3.4 Environmental Liabilities

Environmental liabilities have not yet been formally evaluated for the Project. However, preliminary inspection indicates that they are low. The local flora and fauna seems typical of this area of the Yukon throughout the Project area. Moose, lynx, brown and black bear are observed most commonly along major drainages. Caribou have not been recorded in the Revenue and Nucleus Properties.

The Freegold Mountain Property is not located in a protected area. Tourists and hunters in four-wheel drive trucks and all-terrain vehicles occasionally use the Mount Freegold Road to pass through the property.

Archeological research has been conducted for portions of the property.

3.5 Permits

Exploration activity in Yukon requires a mining land use operating permit. Class 1 Permits allow activities that are low impact, non-roaded and usually early-stage exploration. Class 2 and higher permits allow mineral exploration activities that are subject to approval under the Yukon Environmental and Socio-economic Assessment Act (YESAA), a single assessment process that applies throughout Yukon to all projects and all levels of government.

Triumph Gold Corp was issued an amendment to their Class 3 Operating Permit effective as of March 31, 2017 and numbered LQ00426a after approval from the YESA Board. The permit is valid until May 20, 2020.

Under this approval, Triumph Gold is required to submit pre- and post-season reports. In 2017, these reports were submitted to the Chief of Mining Lands in Whitehorse and the Carmacks Natural Resources Officer on May 5th and October 24th of 2017.

Other specific permits required for the Freegold Mountain Project include:

- Waste Management Permit – Yukon Environment Permit No. 81-123
- Building Permit – Yukon Community Services Permit No. 2017-0098-B
- Storage Tank System Permit – Yukon Community Services Permit No. 2017-02
- Septic Tank Permit – Yukon Health and Social Services Permit No.3165.

3.6 First Nations Communities

Two first nations communities share boundaries with the claims of the Freegold Mountain Project. The Selkirk First Nation has settlement land which bounds the northwest portion of the Project, and the Little Salmon-Carmacks First Nation has settlement land northeast of Big Creek in the area of the Revenue and Nucleus properties. In 1997, the Selkirk First Nation and Little Salmon/Carmacks First Nation signed final claim settlement agreements with the Government of Canada and the Government of the Yukon.

3.7 Site Access Risk Factors

Access to the Freegold Mountain Project is affected by weather conditions. Heavy rains in the spring and summer can slow travel on dirt access roads and will raise creek water levels that can make creek crossings difficult. During the winter months, there may be limited or no access to the Freegold Mountain Project by truck due to unploughed roads. More rarely, high winds can topple trees across access roads making passage impossible until road clearing can be performed.

4 – ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

4.1 Accessibility

The Freegold Mountain Project lies within the Dawson Range mountains of southwestern Yukon. From Carmacks, the nearest town, the unpaved Mount Freegold Road along with subsidiary unpaved roads provides access to a large portion of the Project, including the Revenue and Nucleus properties. The Revenue Camp is situated at kilometre 82 on the Mount Freegold Road with the driving time at 2.25 hours in good road conditions.

Travel on the Mount Freegold Road is two-wheel drive, except at times of spring runoff or after heavy rain. A network of four-wheel drive roads and ATV trails provides access to the main work areas on the property.

The Project is on crown land, entirely within the traditional territories of Little Salmon/Carmacks First Nation and Selkirk First Nation. Both have settled their land claims with the Yukon Territorial Government and the Federal Government.

4.2 Climate

The Property has a northern interior climate. Winters are long and have typically low precipitation, with temperatures often reaching -30° centigrade. Summertime is relatively dry with the exception of common afternoon thunderstorms. The exploration season typically spans April to October. Permafrost is generally found at depths of greater than 1.0m on south facing slopes and less than 0.1m on north facing slopes.

At relatively high elevations, vegetation consists of alpine grass and moss, willow, and black spruce. Valleys in the area are vegetated with spruce, birch, and cottonwood. Alder and willow form dense cover over disturbed areas. Large areas of the Property were burned in the summer of 2004 and are now regenerating (Photo 4.1).

4.3 Local Resources

The nearest town to the Project area is Carmacks, with a population nearing 500 permanent residents. In addition to accommodation, groceries, fuel, and potable water, both skilled and unskilled labour is locally available. Whitehorse, with a population of over 25,000 people acts as the primary supply centre for exploration in the Project area.



Photo 4.1: Regenerating forests at the Nucleus Property

4.4 Infrastructure

Carmacks is situated on the Klondike Highway (Yukon Hwy 3), a paved all-weather highway running from Whitehorse to Dawson City. The main electrical grid, natural gas pipeline, and communication networks are available here. Apart from access to the property via the Mount Freegold Road, minimal infrastructure currently exists in the immediate vicinity of the Project.

4.5 Physiography

The Freegold Mountain Project lies in an area of broad, rolling hills and valleys. Elevations range from 750m to 1510m above sea level and from 900m to 1360m at Tinta (Figure 4.1). Big Creek and its tributaries, Seymour Creek and Bow Creek, are the main perennial streams draining the area. Water in these creeks is available most of the year.

Permafrost is discontinuous and can typically occur near surface on north facing slopes and underneath the upper one metre of soil cover on south-facing slopes.

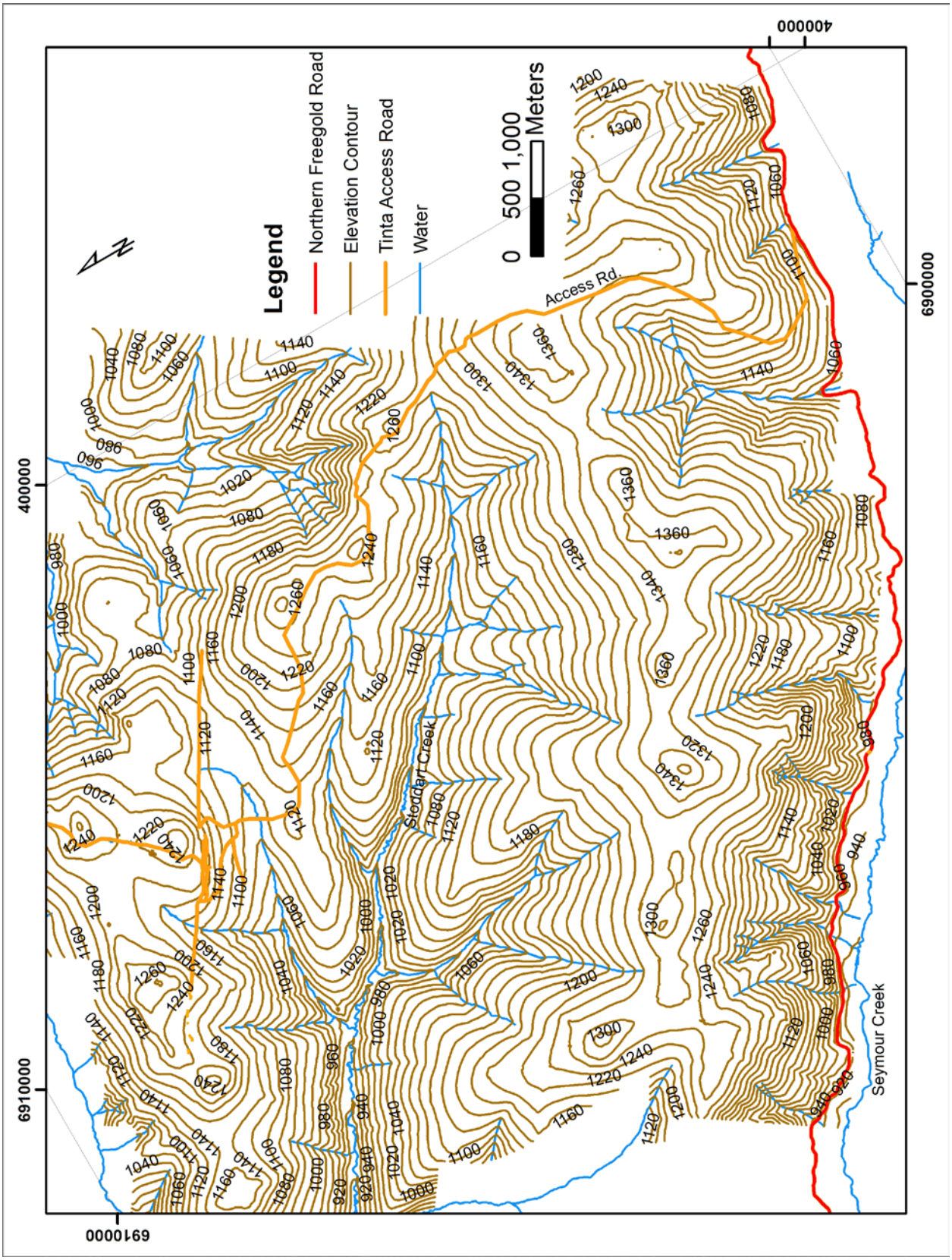


Figure 4.1: Topography of the Tinta Property, Freegold Mountain Project (1:50,000 scale)

5 – EXPLORATION HISTORY

In 1930, prospector P.F. Guder discovered placer gold on the west side of Freegold Mountain. During the autumn and winter of 1930-1931 prospectors rushed to the area, staking over 100 claims. Exploration and mining of placer gold continues to this day. Around the year 1950, Guder found a massive chalcopyrite vein in bedrock in Revenue creek. Since then, the Revenue Property has been owned and explored by various individuals and companies for its copper and gold potential. At times the Revenue Property has been combined with the adjacent Nucleus Property. In the year 2000, the fragmented claims of this area were united under the name Golden Revenue. In 2006, Northern Freegold Resources Ltd consolidated the claims even further, and conducted extensive exploration on the Revenue, Nucleus, and Tinta properties from 2006 to 2011. Triumph Gold Corporation acquired Northern Freegold Resources in 2015, and has completed all work on these claims, now termed the 'Freegold Mountain Project', until the present time.

The work history of the Freegold Mountain Project including the Nucleus Property was compiled by Pautler (2006) and Fonseca and Giroux (2009) and was revised and edited by Dodd, Dyck and Miller (2009). The history of exploration on the Nucleus and Revenue Properties is summarized in Table 5.1 below.

Table 5.1: Exploration History of the Nucleus and Revenue Properties.

Year(s)	Owner	Work Performed
1950	P.F. Guder	gold-bearing chalcopyrite-pyrite lenses discovered and explored the Discovery Zone area by a short adit and trenches
1951	Conwest Exploration Ltd.	EM and resistivity surveying on the Discovery Zone
1954	P.F. Guder	Happy claims staked over gold-bearing quartz float (Clark, 1954).
1954	Newkirk Mining Corp	IP-Resistivity surveying on Big Creek and Revenue Creek near the Discovery showing
1954-55	Teck Exploration	EM surveying and drilling five diamond drill holes (614 m total) on Discovery Zone
1964	P.F. Guder	re-staking of the Happy claim area (Dunn, 1965)
1964-1965	Meridian Syndicate	geochemical surveying and drilling three holes (165 m total) (Dunn, 1965)
1968-1970	Yukon Revenue Mines Ltd.	geochemical, magnetic and IP surveying, bulldozer trenching, road construction, and drilling ten diamond drill holes (1258 m total), mostly on Discovery Zone (Baird, 1968; Granger, 1970)
1970	Kaiser Resources Ltd.	grid soil geochemical and IP surveying, drilling twenty percussion drill holes (1873 m total) and nine diamond drill holes (1291 m total) on the Discovery Zone (Johnson A. A., 1970)
1974	Shakwak Exploration Co. Ltd.	mapping and geochemical sampling in the eastern part of the Happy Zone of the Revenue Property
1974-1980	Yukon Revenue	bulldozer trenching and drilling three diamond drill holes (180 m total) on Discovery Zone (MacDonald, 1983; Wallis, 1983)
1976	Guder	re-staking the Happy claims
1978-1979	Yukon Revenue Mines Ltd.	hand trenching on the Happy Zone
1982	Guder Mining Exploration Ltd.	trenching on the Happy Zone (Eaton W. D., 1983)
1983-1984	Shakwak Exploration Co. Ltd	geochemical, magnetic, and EM surveying and drilling nine diamond drill holes (628 m) mostly on Discovery Zone (MacDonald, 1985; Wallis, 1983)
1985	NORDAC Mining Corporation / Yukon Revenue Mines Ltd.	soil geochemistry and trenching (Cathro R. J., 1986), metallurgical testing on some of the Revenue mineralization (Wilson, 1985)

Year(s)	Owner	Work Performed
1985-1991	Big Creek Resources Ltd. and Rexford	multi-element soil geochemical, magnetic, and EM surveying, extensive mechanized trenching, and drilling thirteen diamond drill holes (1314 m total) on Discovery Zone (Becker & Eaton, 1991; Cathro M. , 1986)
1985-1986	Freegold Ventures	grid soil sampling in the eastern area (ACK claims)
1986	Guder Mining Exploration Ltd.	trenching in the Happy Zone
1986	NORDAC Mining Corp.	trenching and grid soil geochemical surveying, and re- examination of all pre-1985 drill holes (Cathro R. J., 1986)
1993-2004	Harris and Associates Exploration (Midnight Mines Ltd.)	prospecting, grid cutting, soil and rock sampling, magnetic and VLF-EM surveying, and hand trenching in areas of quartz-carbonate veining in felsic porphyry lithology along Happy Creek (McFaull, 1997)
1996	YKR (originally Yukon Revenue)	ground magnetometry and VLF-EM surveying (McFaull, 1997)
1999-2000	ATAC	structural mapping, excavator trenching, road construction, and line-cutting (Becker, 2001; Becker & Eaton, 1991)
2006	Northern Freegold Resources Ltd.	project-wide airborne VTEM and magnetic surveying (Geotech Ltd, 2007) of which Revenue was a part. Minor silt and BLEG sampling and drilling of fifty-eight RAB (Rotary air blast) holes totaling 2171 m (Robertson R. , 2007).
2007	Northern Freegold Resources Ltd.	Drilling of 84 RAB holes totaling 2997m and eight DDH's totaling 1123 m, minor trench remapping, reconnaissance mapping and rock and MMI soil sampling were completed on the Revenue Property . The 2007 program included aerial photography (1:20000 and 1:10000), digital mapping (1m contours) and orthophotography taken over the entire project area. Petrography and PIMA (portable infrared mineral analyzer) analysis was completed on selected drill core samples (Fonseca, 2007).
2009	Northern Freegold Resources Ltd.	project-wide stream sediment sampling (Lewis, 2009), outcrop mapping (Miller, 2009 End of Season Regional Report: Freegold Mountain Project, 2010) and a magnetic and gamma-ray spectrometry surveying (Costantini, 2009) in both the Nucleus and Revenue Properties, reinterpretation of property-wide 2006 helicopter borne VTEM and magnetic surveying (Geotech, 2006) (Costantini, 2009)
2010	Northern Freegold Resources Ltd.	soil sampling over the Revenue and Nucleus Properties (Lewis, 2010), drilling 5 DDH's totaling 1531.02m and 40 RC holes totaling 5634.21 m, Titan-24 DC/IP Surveying,
2011	Northern Freegold Resources Ltd.	27 diamond drillholes on Revenue, a deposit was calculated for the Revenue Zone by GeoVector
2016	Triumph Gold Corp	Limited Relogging and Terra-Spectrometry sampling of historical drill core

6 – GEOLOGICAL SETTING AND MINERALIZATION

6.1 Regional Geology and Structure

The Omineca Belt is a Jurassic through Cretaceous volcanic arc terrane extending from Alaska through the Yukon and British Columbia to Washington State. Omineca is bounded by the Foreland Belt to the east and the Intermontane Belt to the west. The Omineca Belt is composed of the Slide Mountain, Cassiar, and Yukon-Tanana Terranes: three magmatic island arcs that formed at the convergent boundary not far from the continental margin.

The Yukon-Tanana Terrane is comprised of Mississippian-aged meta-sedimentary and meta-volcanic rocks, meta-plutonic rocks of the Simpson River Suite, and a suite of intrusions (batholiths) that in areas dominate the Terrane. The Yukon-Tanana Terrane is thought to have accreted during late Triassic to early Jurassic times.

The northernmost extension of a foreign terrane is thought to exist in the region. The Stikine Terrane, part of the Intermontane Belt, is an arc with origins distal to those of the Yukon-Tanana. The Stikine Terrane may have docked with ancestral North America in the middle Jurassic.

The youngest rocks in the region are volcanic rocks and associated shallow intrusions of the Mount Nansen, Prospector Mountain, and Carmacks Group suites, all of mid-to-late Cretaceous in age and are generally difficult to distinguish from each other. The Carmacks Group is the youngest event (~70Ma) and was a regional-scale hydrothermal event that formed precious and base metal deposits in all lithologies older than the upper Carmacks volcanic unit. Large areas of alteration and associated mineral deposits were produced under a capping of volcanic flows, which trapped heat and circulated fluids. Prospector Mountain rocks are best represented by a granitic plug at Prospector Mountain, and are similar in age to the Carmacks Group.

The main structural features in the region are steeply-dipping, northwest-trending, dextral fault zones parallel to the regional Tintina and Denali faults. The major structural feature in the area is the Big Creek Fault.

6.2 Freegold Mountain Project Geology

With the exception of the Granite Mountain Batholith of the Stikine Terrane, the Freegold Mountain Project lies within a belt of Palaeozoic or older meta-sedimentary and lesser meta-volcanic rocks belonging to the Yukon-Tanana Terrane. This belt contains a highly variable suite of metamorphosed rocks including quartz-feldspar-mica schist and gneiss, amphibolite, grey marble, and quartzite. The belt is generally oriented northwest and dipping steeply to the northeast.

The metamorphosed basement rocks are extensively intruded by Jurassic and early-Cretaceous intrusions. South of the Southern Big Creek fault, lies the Big Creek pluton (188Ma) (Figure 6.1) part of

the Yukon-Tanana Terrane. The early-Jurassic Granite Mountain Batholith (~183Ma), part of the Stikine Terrane, lies northeast of the Big Creek fault and is comprised of quartz diorite, granodiorite, and quartz monzonite. The adjacent dioritic Minto Plutonic Suite (~200Ma) is just outside the project area.

A host of early-Cretaceous intrusions intrude the length of the Big Creek fault system. The main intrusions in the Freegold Mountain Project area are an elongate granite body which parallels and is immediately south of the Southern Big Creek Fault, and the granodiorite to monzonite stock which hosts the Revenue deposit. The leucocratic microgranite in close proximity to the Nucleus deposit is also of early Cretaceous age.

All of the early Cretaceous units described above are cut by small plugs and dykes of mid- to late-Cretaceous age. The largest intrusions of this age in the Project area are the Seymour Creek Stock (~74Ma) at the confluence of Seymour Creek and Bow Creek, and gabbro plugs (~70Ma) immediately north of the Big Creek Fault. Both of these belong to the Prospector Mountain Suite.

Other late-Cretaceous intrusions include quartz-feldspar porphyry dykes and diatreme breccia, both of which are associated with at least some of the Cu and Au mineralization of the Project. It is unknown if these intrusions are related to the Mount Nansen Group or the Prospector Mountain Suite. At Nucleus, the feldspar porphyry dykes have been dated at ~105Ma, and at Revenue the breccia body and quartz-feldspar porphyry dykes have been dated at 75Ma (Bineli Betsi and Bennet, 2010).

Most of the higher parts of the Project remained unglaciated during the last few glacial events resulting in the preservation of a surface cap of weathered material formed during the extended period of tropical weathering. Oxidation extends to depths of 20 to 200m below the present ground surface depending on local structural and lithological controls.

Two layers of white volcanic ash expelled from Alaskan volcanoes occur throughout most of the Project area as unconsolidated beds from a few centimeters to up to one metre thick. The oldest ash is thought to be the Dawson Tephra at approximately 30,000 years in age, and the most recent is the White River Tephra at approximately 1200 years in age.

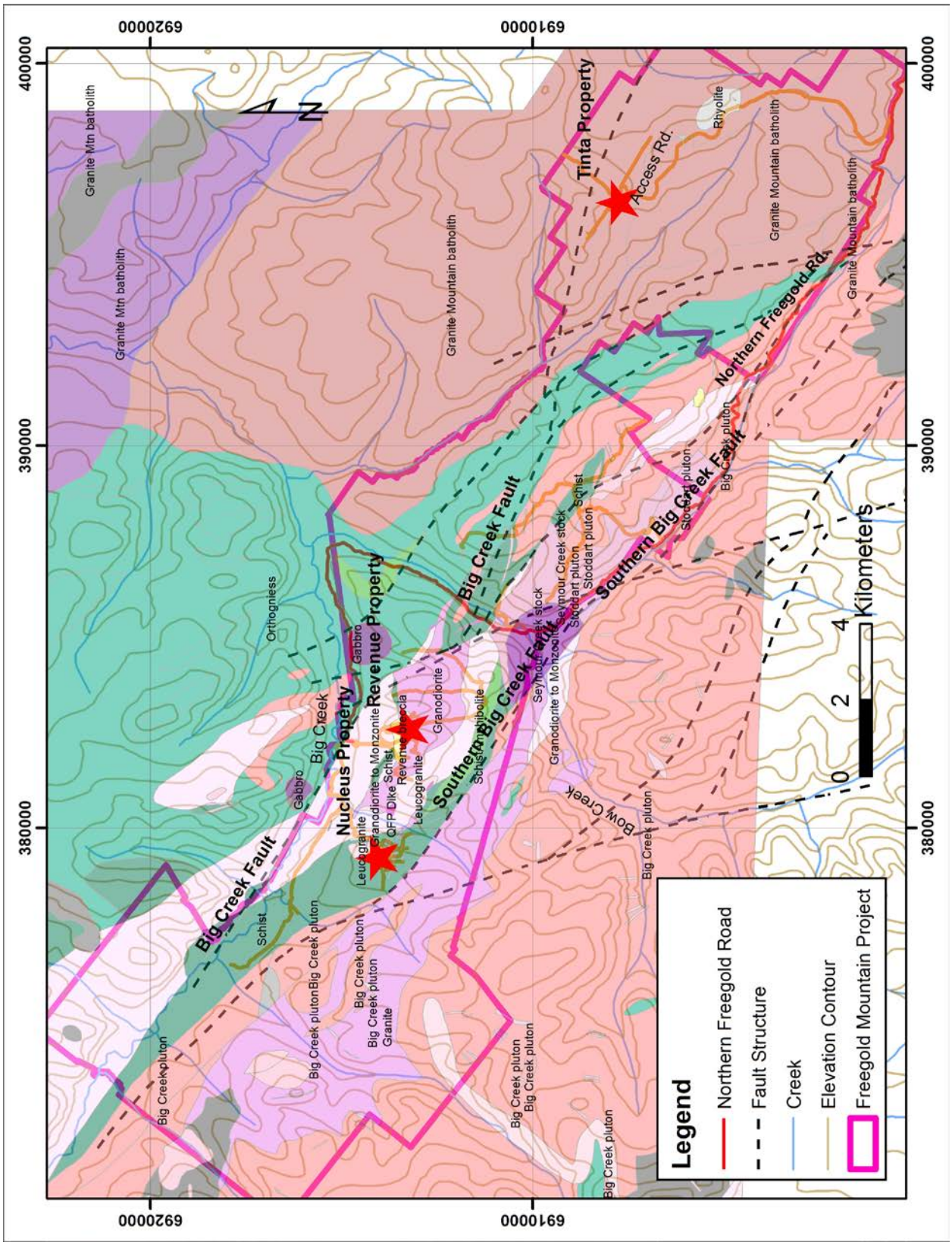


Figure 6.1: Project-scale Geology and Structure, Freegold Mountain Project (1:150,000 scale)

6.3 Revenue and Nucleus Property Geology and Structure

Outcrop exposure is very poor over most of the property. The geological understanding of the Revenue and Nucleus property is largely based on observations from drillcore, interpretation of geophysical surveys, and regional observations. In 2009, Northern Freegold Resources compiled a geological map over the Revenue and Nucleus Properties, which sourced information from government survey maps, their own field mapping, and geophysical interpretation. In 2017, University of British Columbia's Mineral Deposits Research Unit utilized Revenue Camp as a base for a study seeking to synthesize and better characterize plutonic rocks in the region from previous mapping efforts (Allen, 2018). New lithologic contacts are shown in Figure 6.1, along with a simplified version of the lithologic nomenclature.

The dominant rock types at the Revenue Property are equigranular to locally-porphyritic, mesocratic, coarse-grained quartz monzonite and granodiorite bodies of early-Cretaceous age. Fresh granodiorite typically has 10-20% hornblende and biotite with up to 5% disseminated magnetite. Immediately southwest of the Revenue Property, meta-volcanic basement rocks can be found at higher elevations along the ridge running along the south side of Revenue. These rocks have been interpreted as roof pendants to early-Cretaceous plutonic rocks.

The Jurassic-aged Big Creek Syenite forms a large batholith southwest of the Southern Big Creek Fault, in the southern part of the Revenue Property. It is resistant to weathering, coarse grained and porphyritic, comprised primarily of orthoclase and hornblende. No syenite xenoliths have been seen in the Revenue granodiorite, suggesting that the two units may be in fault contact.

A fine-grained leucogranite unit forms a topographic high on the ridge immediately west of Mechanic Creek (Figure 6.2). It is seen in drillcore as a sizable body, coarsening with depth. It is very felsic, composed of feldspar and quartz with occasional muscovite or biotite. The microgranite is thought to also be early-Cretaceous, thus older than the majority of porphyry dykes.

The mid- to late-Cretaceous quartz-feldspar porphyry dykes have been mapped at Revenue to be oriented roughly east-west. The dikes are directly associated with increased mineralization at the Nucleus Property. They are thought to represent rocks which have infilled zones of dilation and/or tension gashes, resulting from brittle tectonism. Quartz-feldspar porphyritic dikes have been dated at both 105-107 Ma and 74-77 Ma (Bineli Betsi and Bennet, 2010) though there is some debate regarding the location of the former.

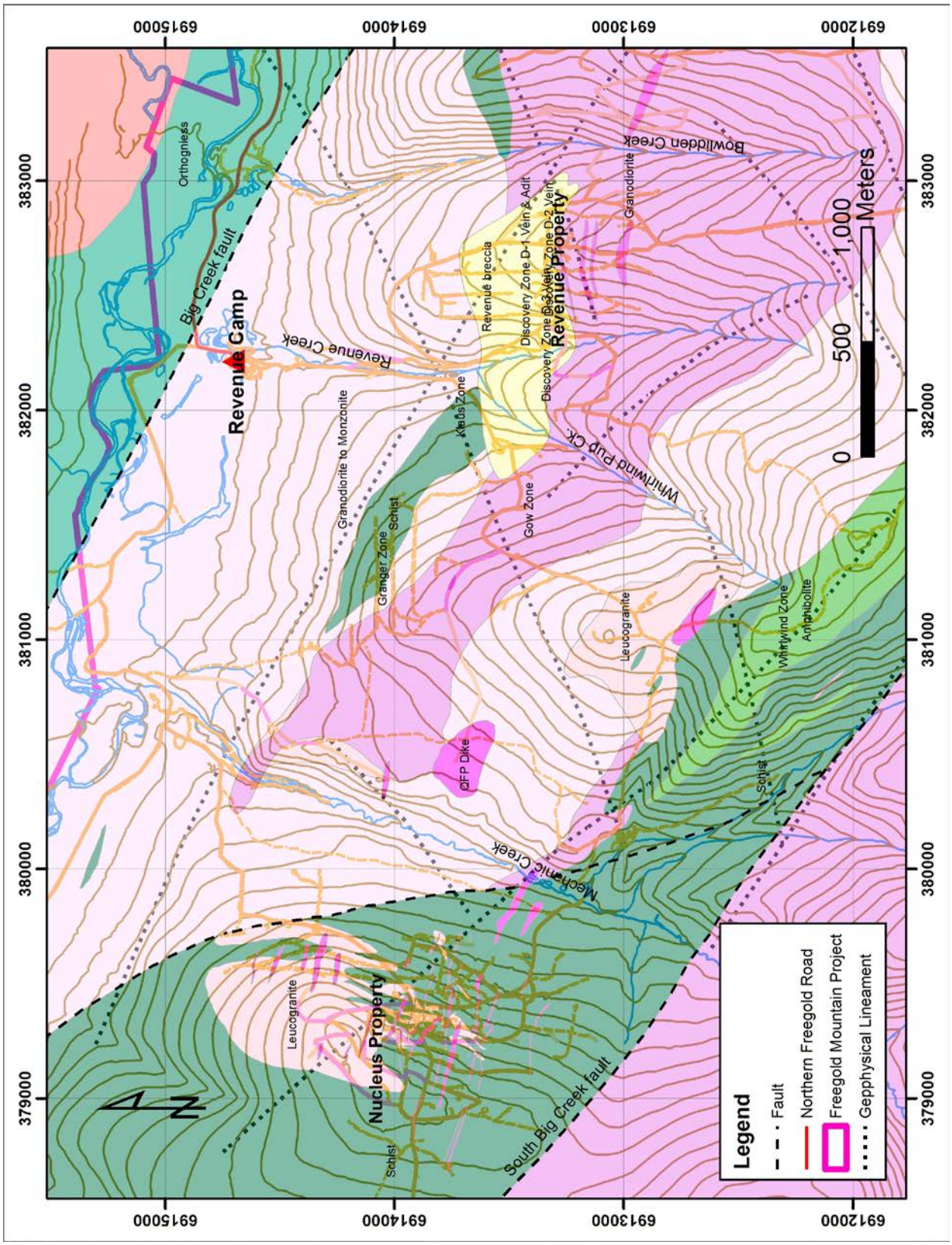


Figure 6.2: Nucleus and Revenue property-scale Geology and Structure (1:25,000 scale)

The late-Cretaceous Revenue Breccia is an east-trending ovoid breccia body, approximately 1000m long and 500m wide. The southern and northern contacts with the surrounding granodiorite body dip steeply southward. The breccia has a strong geophysical signature as it has low magnetism, chargeability, and resistivity because of the alteration, lack of magnetite, and relatively low disseminated pyrite content, especially near surface where it has been oxidized.

When freshest, the Revenue Breccia has a tan-coloured, fine-grained matrix composed of porphyritic quartz and feldspar material. The intrusion has many modes and occurs as a coherent intrusive body, an auto-brecciated magma, and a milled breccia with rip up clasts of granodiorite and metamorphic rocks. The breccia can be both matrix- and clast-supported with clasts ranging from 1cm to greater than 30cm. On average, clasts range between 2cm and 7cm and can be either angular or rounded. Mafic material is rare to absent outside of the clasts. Previously brecciated fragments have also been observed. The breccia is typically altered to clay and carbonate, and near the surface oxidizes to a distinctive pale pinkish brown to purple colour. In outcrop, it has a distinctive irregular weathering pattern, contains pyrite crystals, and is often coated with copper oxides and carbonates. The breccia is cut by minor porphyritic dykes and faults. The breccia has been dated at 75 Ma (Bineli Betsi and Bennet, 2010).

The structural system containing the Nucleus and Revenue properties is dominated by early moderately- to steeply-dipping, northwesterly fault zones parallel to regional structures. These dextral fault zones underwent multiple reactivations, though the stress regime is thought to have remained relatively constant. The Project is bounded by two of these major regional structures, namely the Big Creek fault to the northeast and the South Big Creek fault to the southwest (Figure 6.2). Contained between these regional structures are three sets of secondary structures: one trending west to northwest, the second trending northwest to north, and the third trending northeast. Mineralization is preferentially distributed along these structures, especially the west to northwest direction. The northeast direction appears to be the latest event, and in some cases is post mineralization.

6.4 Mineralization

The Carmacks hydrothermal event, also known as the “Big Flush” is postulated to have occurred during the late-Cretaceous when the area was covered by outpourings of Carmacks Volcanics (Smuk et al, 1997). Circulating hydrothermal fluid cells where initiated underneath the volcanic cap. This large movement of fluid reset older porphyry dykes and is responsible for one of a number of porphyry-style mineralization in the Project area. As porphyry-style mineralization is evident in clasts within late-Cretaceous rocks, an earlier style of mineralization also exists

6.4.1 Revenue Mineralization

The Revenue Deposit has a current inferred resource of 80.8 Mt containing 1.01 Moz of gold, 8.96 Moz of silver, 241.36 Mlbs of copper, and 82.85 Mlbs of copper using a 0.5 g/t AuEq cut-off grade (December 15, 2014).

The bulk of the mineralization at the Revenue Property occurs as porphyry-style stockwork veins and disseminated sulphides hosted in the granodiorite and, to a lesser extent, the Revenue Breccia. Elements of interest include gold, copper, and silver with lesser amounts of molybdenum and tungsten.

Drilling to date suggests that the mineralization is concentrated along the southern contact between the granodiorite and Revenue breccia. Although the breccia contains widespread disseminated pyrite and chalcopyrite it does not show consistent mineralization and does not contain the entire vein sequence described below. Granodiorite clasts containing quartz and chalcopyrite veins are found within the breccia, but the veins do not extend into the matrix while younger, banded carbonate veins with patchy chalcopyrite cut both granodiorite and breccia. Increased copper and gold values parallel the southern breccia/granodiorite contact especially in the southeastern portion of the breccia body and occur within a 50m zone surrounding the contact in both the breccia and the granodiorite. Mineralization is also elevated in zones with increased faulting, at the contact margins of the breccia and granodiorite, and where dykes intrude.

Both wallrock and breccia are locally affected by early-phase potassic alteration and later phyllic alteration. Igneous textures in the granodiorite are preserved but the rock is widely affected by chlorite alteration of biotite and sericite/clay alteration of feldspars. Localized alteration is caused by veining.

All stages of veining are seen in granodiorite and only the later stages of carbonate veining are present in the Revenue Breccia.

6.4.2 Nucleus Mineralization

The Nucleus Au-Ag-Cu deposit is the most advanced exploration target on the Freegold Mountain property. It consists of polyphase quartz-chalcopyrite-pyrite-arsenopyrite veins, infill breccia and semi- to massive-sulfide lenses consistent with multiple phases of skarn and epithermal gold mineralization It has a current indicated resource of 74.74 Mt containing 1.31 Moz of gold, 2.18 Moz of silver, and 105.34 Mlbs of copper and an inferred resource of 63.79 Mt containing 0.8 Moz of gold, 3.15 Moz of silver and 69.16 Mlbs of copper, each resource using a 0.30 g/t AuEq cut-off grade (December 15, 2014).

The resource estimate is based on more than 31,000 assay values from 322 drill holes, totaling over 50,000 metres of drilling. Assay values were verified against drill logs and assay certificates. Drill hole collar locations and down-hole surveys were checked and verified. The mineral resource was estimated using 1.50 metre composites of the assay values, with zero grade inserted into intervals that were not sampled.

6.4.3 Tinta Mineralization

Mineralization at the Tinta Property is dominated by northwest-trending, sub-vertical quartz-carbonate veins containing pyrite, chalcopyrite, galena, sphalerite and argentiferous tetrahedrite. The main Tinta vein zone is mapped discontinuously for over 3,500 metres along strike. Individual veins vary from 0.9m to 1.6m, and have intensely clay-altered envelopes. More-specifically, alteration consists of magnetite-

destructive intense kaolinite adjacent to, and extending a few metres from mineralized veins, and a broader white mica (muscovite and lesser illite) envelope that locally surrounds mineralized veins. Mineralized veins and associated alteration envelopes are hosted within granodiorite to quartz monzonite.

Using a base case cutoff grade of 0.5 g/t Au, the Tinta zone is estimated to contain an inferred resource of 2.16 Mt grading 1.89 g/t Au for a total of 0.131 Moz of gold, 54.9 g/t Ag for a total of 3.81 Moz of silver, 0.27% Cu for a total of 13 Mlbs of Cu, 0.99% Pb for a total of 47 Mlbs and 1.41% Zn for a total of 67 Mlbs of zinc. A cut-off grade of 0.50 g/t Au is considered a reasonable economic cut-off grade for the Tinta zone to maximize the grade of the resource while maintaining a coherent model of the resource.

7 – DEPOSIT TYPES

The region hosting the Project area has long been explored for its porphyry copper potential. As a whole, the Revenue and Nucleus properties contain a multi-phase Cretaceous porphyry and epithermal Cu- Au deposit that has been compared to the large Casino deposit. The Casino deposit contains 914 Mt of 0.237g/t Au, 0.21% Cu, and 0.0236% Mo of proven and probable mill ore reserves; 78 Mt of 0.427g/t Au and 0.062% Cu of proven and probable heap leach ore; and 1140 Mt of measured and indicated resource. The smaller Cash Deposit contains 36 Mt of 0.2% Cu and 0.02% Mo. Recently, it has been compared to Tenorland Minerals' Tanacross project on the border of Alaska and the Yukon.

8 – 2017 MINERAL EXPLORATION

8.1 Overview

A large program of sub-surface mineral exploration (diamond drilling) was commissioned by Triumph Gold Corp in 2017 on both the Revenue and Nucleus deposits, with minor amounts of surface rock samples also collected. At the Tinta Property, a large soil-sampling survey followed by excavator trenching and rock sampling was also commissioned. Each program and their relevant results are discussed in the sections that follow.

8.2 Surface Exploration–Nucleus and Revenue Properties

During the 2017 field season, 18 rock samples were taken in the area adjoining the Revenue Zone and extending to the southern claim boundary. The rock-sampling program often sampled newly-exposed outcrop or subcrop uncovered as a result of road-building required to access diamond drilling locations. Rock samples were analyzed using multi-element ICP geochemistry and atomic absorption. For full details on these methods, see Chapter 9.

Rock sample descriptions are in Table 8.1 and locations are shown in Figures 8.1a and 8.1b. The rock samples identified several outcrops containing significant precious and key pathfinder element anomalies that merit further exploration.

Table 8.1: Surface Rock Samples

Sample	Easting	Northing	Description
G286201	381047	6913830	mg granite, weakly chl-altered?
G286202	381221	6914069	QFP Dike, trace fg py
G286203	381396	6194067	Breccia of aphanitic frags, fe-stained
G286204	381410	6914042	Breccia, angular clasts to 3.5cm
G286205	381398	6914010	QFP Dike, trace py
G286224	383890	6912750	aplite w/ massive quartz vein
G286225	383894	6912768	aplite w/ massive quartz vein, possible pegmatite
G286226	380880	6913672	cg biotite granite w/ diss. py, wk chl
G286301	383282	6913007	monzonite, qsp altered, py abundant
G286302	383213	6912906	bio monz, qsp monzonite, py min'd
G286303	383213	6912906	bio monzonite, as above
G286304	383162	6913142	bio monz, local aplite, py and cpy
G286305	383166	6913171	bio monz, chl-qtz+/-py-cpy veins
G286306	383168	6913193	mg bio monz, minor qsp alteration
G286307	383169	6913237	bio monz, bio/chl veins, mag replacement
G286308	383176	6913253	mg bio monz, siliciifed, diss ser and pyr, cpy?
G286309	383176	6913270	mg bio monz, local alb alt'n and qtz-fsp-po to aplite
G286310	383164	6913320	biotite monzonite and qtz-fsp-porphyry to aplite

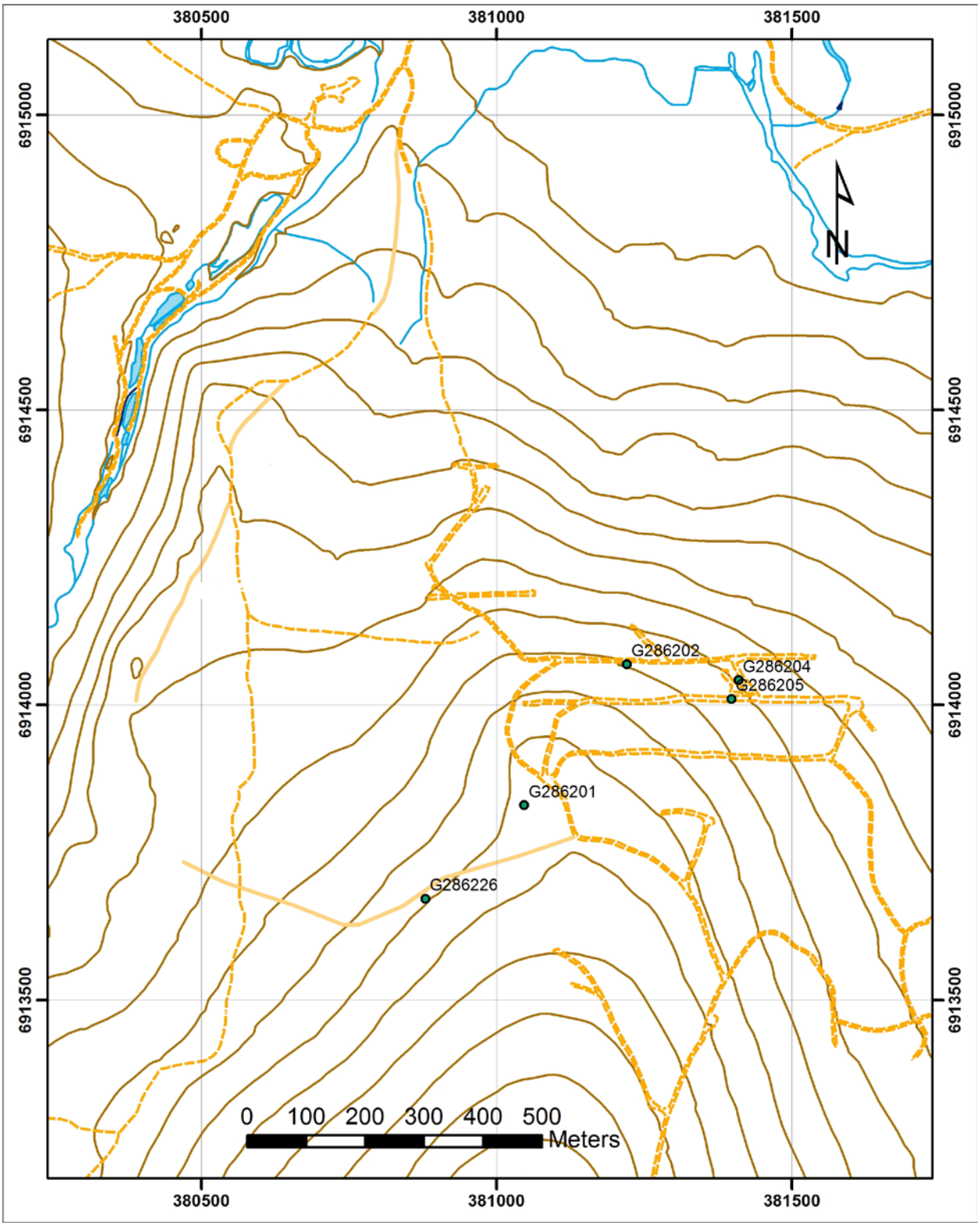


Figure 8.1a: Surface sample location map, Revenue Property west (1:10,000 scale)

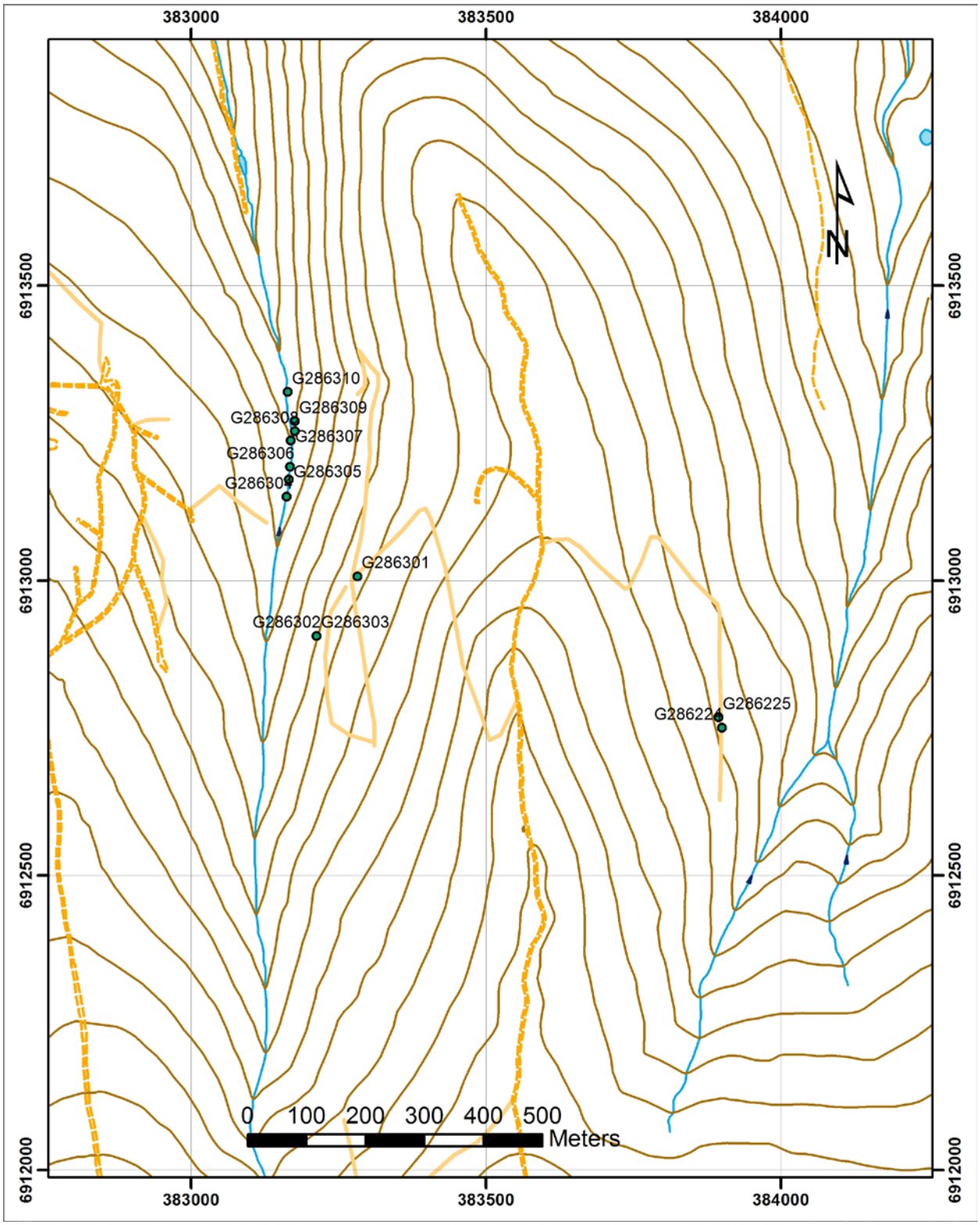


Figure 8.1b: Surface sample location map, Revenue Property east (1:10,000 scale)

8.3 Diamond Drilling—Revenue Property

Prior to the 2017 drill program, 86 diamond drill holes (18,530m total) and 162 percussion holes (7038m total) were completed on the Revenue Property. A description of historic (prior to 2006) drilling by Northern Freegold Resources from 2006 to 2011 has been described in reports by Pautler (2006), and Fonseca and Giroux (2009), and by company assessment reports. The following sections describe the 2017 drill program.

The main purpose of the 2017 Revenue drill program was to follow-up on inferences made from the results of 2016 relogging and terraspectrometry work, as well as observations from a new lithologic, alteration, and mineralization model developed in the spring of 2017. Recent geological reviews of mineralization in the Revenue area, aided by development of a 3D geological model of the 1300m by 400m elliptical Revenue breccia, targeted the eastern portion of the breccia (diatreme) as most prospective for gold and copper mineralization.

Eighteen drill holes, totaling approximately 7615m were completed and are located as shown in Figures 8.2a and 8.2b. Overburden depths were typically low, even in the northernmost Generation Zone area where it encounters the Big Creek valley

The entire length of all drill holes was sampled for assay. Highlights include numerous intersections of copper, gold, silver, and molybdenum mineralization.

All drill collar locations were recorded by Triumph Gold logging geologists or management using a Garmin 60-Series hand-held GPS after the diamond drill relocated from the drillsite. A more accurate survey-quality differential GPS of the collars has not been performed.

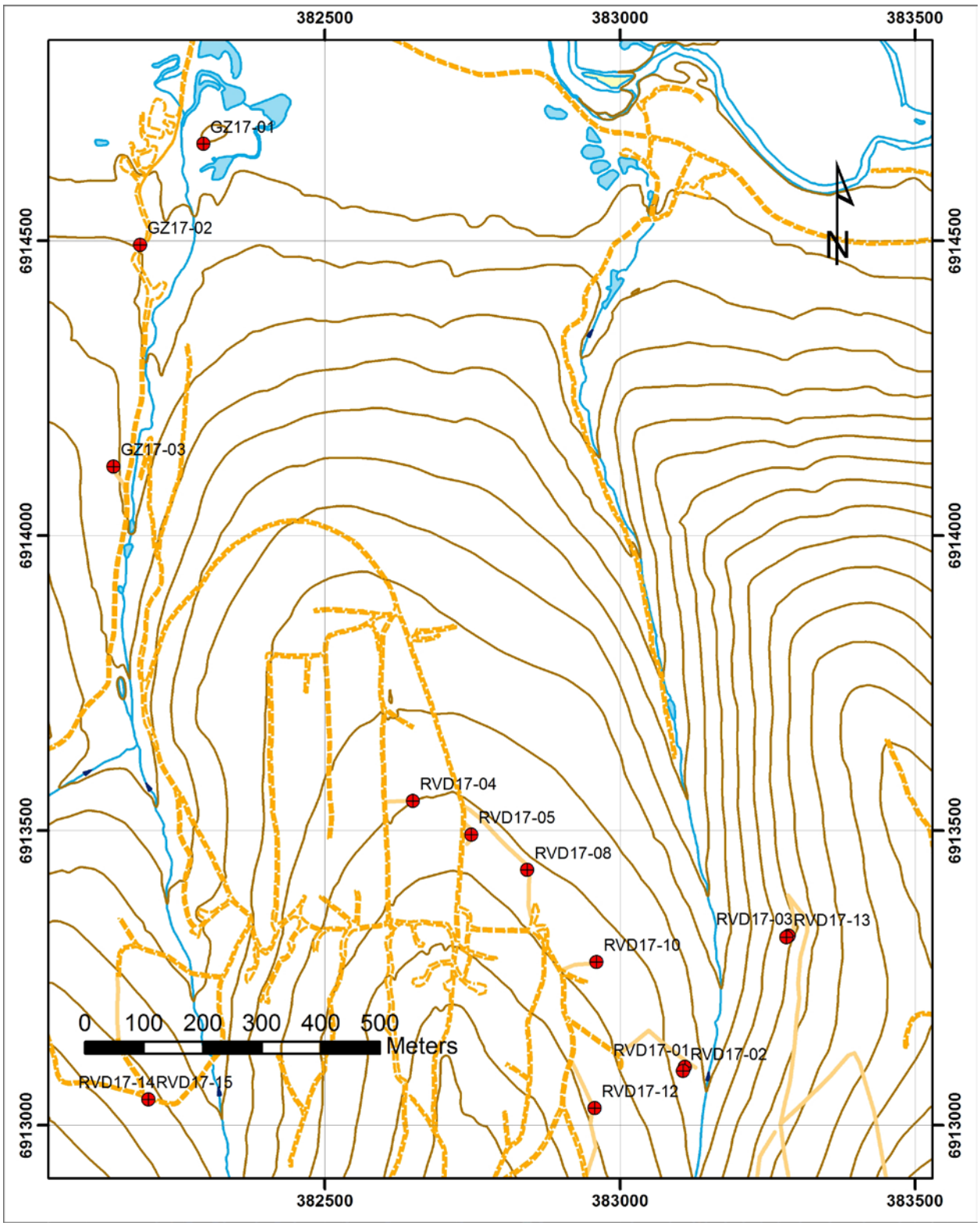


Figure 8.2a: 2017 Diamond Drillhole locations, Revenue Property, north area (1:10,000 scale)

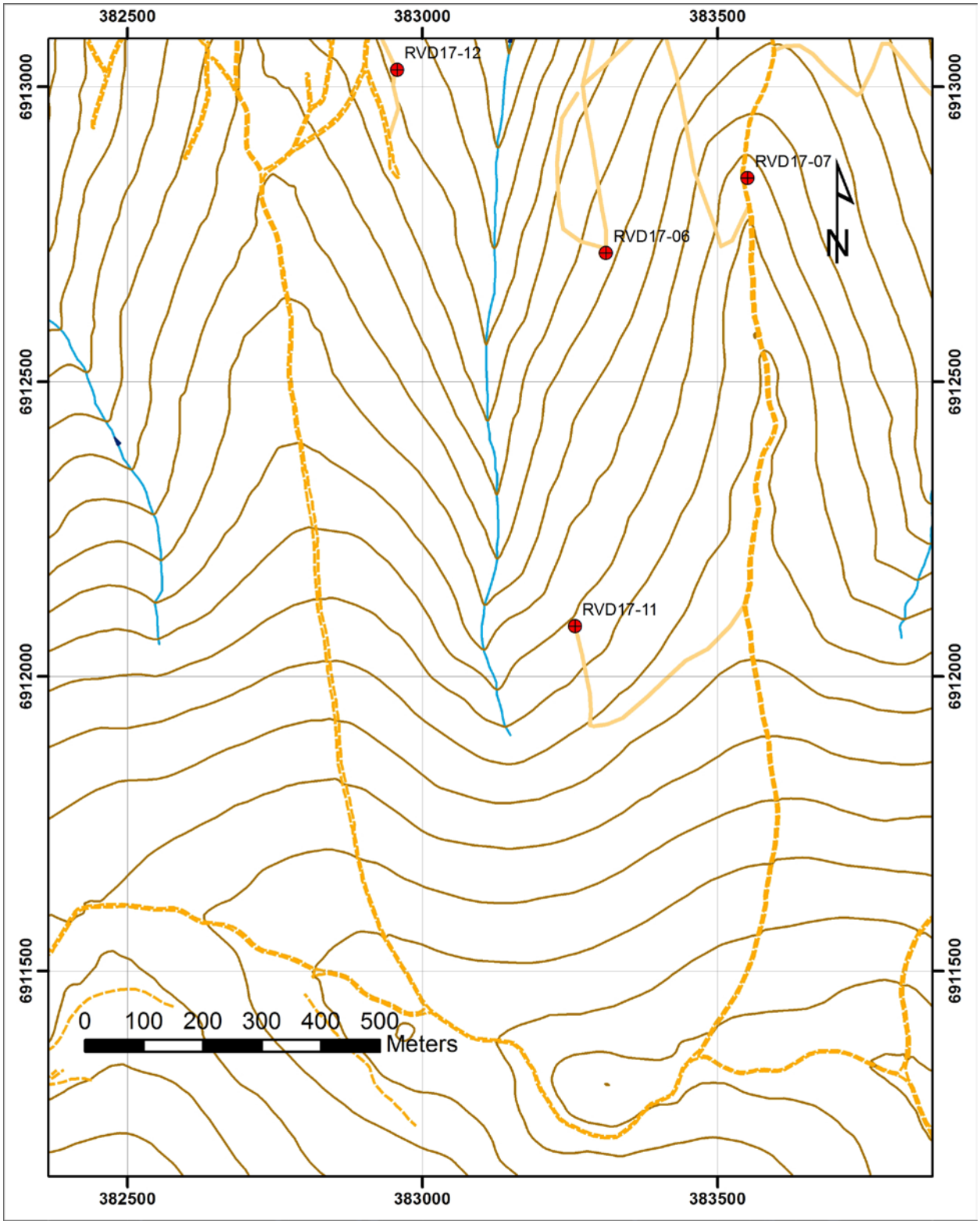


Figure 8.2b: 2017 Diamond Drillhole locations, Revenue Property, south area (1:10,000 scale)

Geological highlights (Table 8.2) of the drill program include the identification of an oxidized breccia/deep-weathering zone with significant gold from the bedrock surface to 68m depth (RVD17-10; 0.64 g/t Au over 68m). This intersection is in an area that has not been explored for near surface mineralization, in part due to absence of a gold in soil anomaly, which is now attributed to thick overburden. Samples from this interval are being sent for metallurgical testing to determine if gold can be extracted via cyanide leach.

Table 8.2: Highlighted composite grades of the Revenue drill program.

Hole #	From (m)	To (m)	Length* (m)	Au (g/t)	Ag (g/t)	Cu (%)	Mo (%)	AuEq.* (g/t)	CuEq.* (%)
RVD17-12	71.00	316.00	245.00	0.332	3.08	0.112	0.008	0.59	0.37
Including	251.35	310.00	58.65	0.971	7.38	0.218	0.014	1.48	0.94
RVD17-10	36.00	104.00	68.00	0.641	1.86	0.075	0.007	0.82	0.52
Including	40.00	70.00	30.00	1.060	2.16	0.083	0.007	1.26	0.79
And	180.00	210.00	30.00	0.199	3.45	0.047	n/a	0.32	0.20
And	347.50	353.50	6.00	0.560	6.98	0.090	0.020	0.89	0.56
RVD17-08	64.00	86.00	22.00	0.503	2.93	0.176	0.007	0.86	0.54
And	308.00	313.00	5.00	0.874	10.88	0.290	n/a	1.48	0.94

Another highlight comes from hole RVD17-12, where a broad intersection (approximately 180 metres long) of porphyry-style stockwork veining with potassic and phyllic alteration, adjacent to, and beneath the surface expression of, the Revenue diatreme.

Other geological highlights include the intersection of a high-grade breccia zone in RVD17-12 (1.48 g/t AuEq. over 58.65m), which is interpreted to be a continuation of hydrothermal breccias encountered in RVD11-22 and RVD11-28, defining at least 120 meters strike-length of high grade mineralization that is open at depth and contained within a broad lower-grade envelope.

RVD17-14 intersected a seven metre long interval of strong gold-silver-copper mineralization with gold disseminated within intergrown pyrite-arsenopyrite-chalcopyrite-bismuthinite and carbonate veins. The interval includes a 5 metre section with visible gold. Highlights of this drillhole are shown in Table 8.3.

Table 8.3: Highlighted grades of RVD17-14.

From (m)	To (m)	Length (m)***	Au (g/t)	Ag (g/t)	Cu (%)
129.00	130.00	1.00	63.67	21.4	0.006
130.00	130.88	0.88	2.85	0.6	0.002
130.88	132.00	1.12	0.92	2.8	0.204
132.00	134.00	2.00	5.03	6.1	0.067
134.00	136.00	2.00	2.74	6.6	0.208
Length Weighted Average over 7m			15.04	7.2	0.113

8.4 Diamond Drilling—Nucleus Property

Prior to the 2017 drill program, 223 diamond drill holes (50,620m total) and 127 percussion holes (7224m total) have been completed on the Nucleus Property. The main purpose of the 2017 Nucleus Property drill program was to follow-up on inferences made from the results of 2016 relogging and terraspectrometry work as summarized in a Triumph Gold internal report by T. Barresi.

Sixteen drill holes totaling 5288m were completed in 2017. Overburden thickness was generally low with the exception of the area around N17-06a, which had to be re-collared. The subsurface in this area in particular is clay-rich, and historically had only seen helicopter-supported drilling.

The entire length of all drill holes was sampled for assay. Highlights of the drilling are reported in Table 8.4 below.

Table 8.4: Highlighted composite grades of the Nucleus drill program.

Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	Cu (%)
N17-02	46.12	57.91	11.79	1.086	0.1	0.016
N17-02	173.10	195.00	21.90	1.545	1.0	0.099
Including	174.50	176.00	1.50	18.500	1.3	0.164
N17-03	47.86	90.00	42.14	0.799	1.3	0.137
N17-03	155.65	169.00	13.35	0.731	1.3	0.079
N17-04	52.00	75.00	23.00	0.670	0.7	0.057
N17-05	188.00	206.30	18.30	0.820	0.8	0.080
N17-07	126.86	138.00	11.14	2.696	2.7	0.077
Including	132.46	133.90	1.44	11.350	7.3	0.200
N17-12	99.00	116.73	17.73	1.797	2.1	0.046
Including	111.00	112.10	1.10	10.200	0.7	0.030
N17-12	212.00	242.00	30.00	0.701	1.0	0.059
N17-01	24.38	39.00	14.62	0.969	1.7	0.046
N17-01	165.00	177.00	12.00	1.005	0.6	0.045
N17-06A	42.00	51.00	9.00	0.781	6.5	0.323
N17-06A	66.80	96.00	29.20	0.485	2.0	0.185
N17-08	95.50	109.00	13.50	0.606	2.9	0.070
N17-09	38.00	59.50	21.50	0.159	1.9	0.208
N17-13	157.50	207.00	49.50	0.381	0.8	0.048
N17-10	453.00	474.53	21.53	0.567	0.5	0.022
Including	465.00	474.53	9.53	1.089	0.4	0.017

All drill collar locations were recorded by Triumph Gold logging geologists or management using a Garmin 60-Series hand-held GPS after the drill had left the drillsite. To this date, more accurate survey-quality differential GPS of the collars has not been performed.

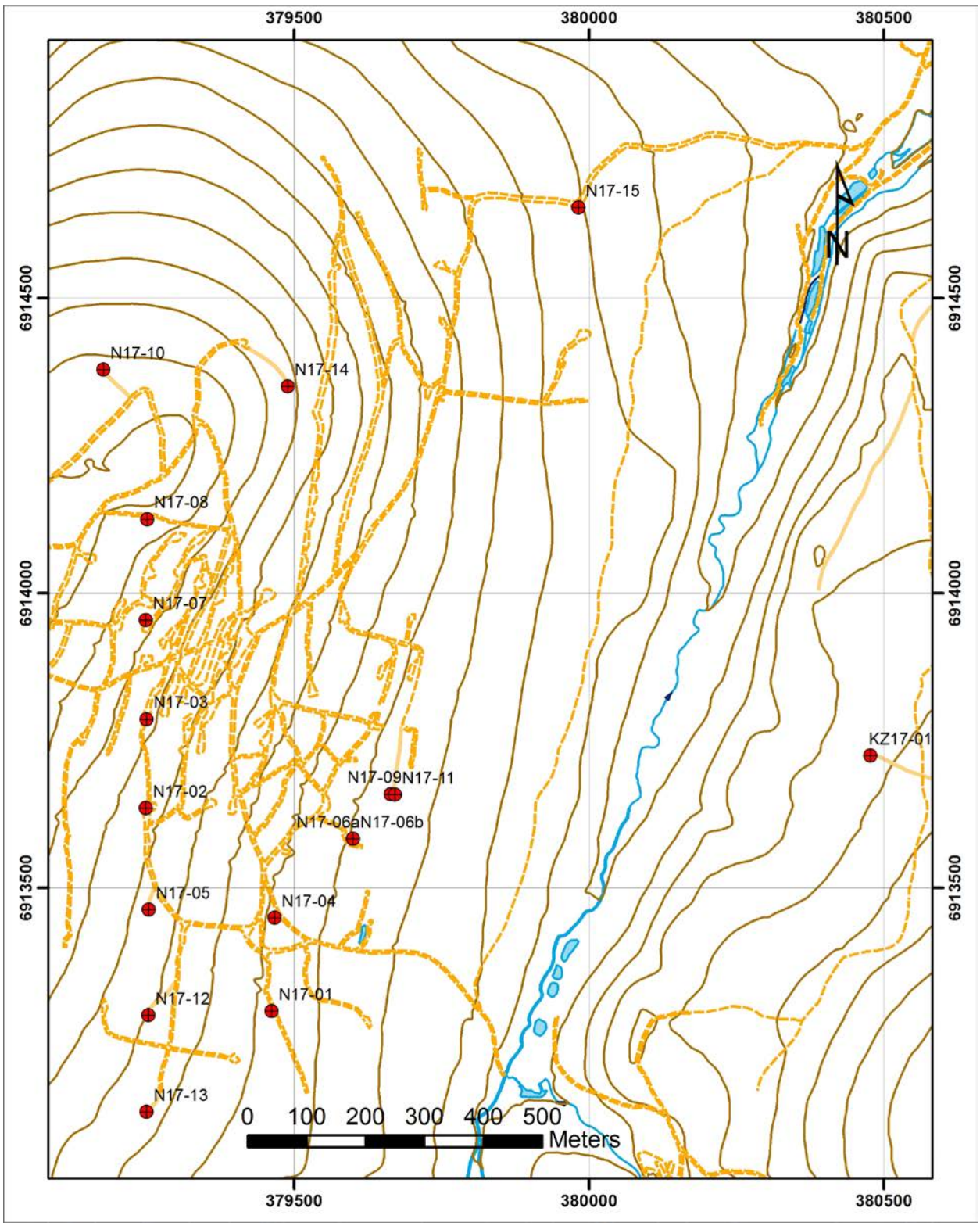


Figure 8.3: 2017 Diamond Drillhole locations, Nucleus Property (1:10,000 scale)

8.5 Tinta Property Till Sampling

During the 2017 field season, 993 till samples were taken from a broad area surrounding the known Tinta vein. Till samples were analyzed using multi-element MS and super-trace ICP for estimation of Au. For full details on these methods, see Chapter 9.

Till sample descriptions can be found in the Appendix and sample locations are shown in the figures below. The till samples identified several zones containing significant precious and key pathfinder element anomalies that merit further exploration, including a 1.8 kilometre long, northwest-southeast trending, multi-element till anomaly along strike of the Tinta Au-Ag deposit. The anomaly includes Au, Cu, Pb, Zn, As, Bi, and Sb.

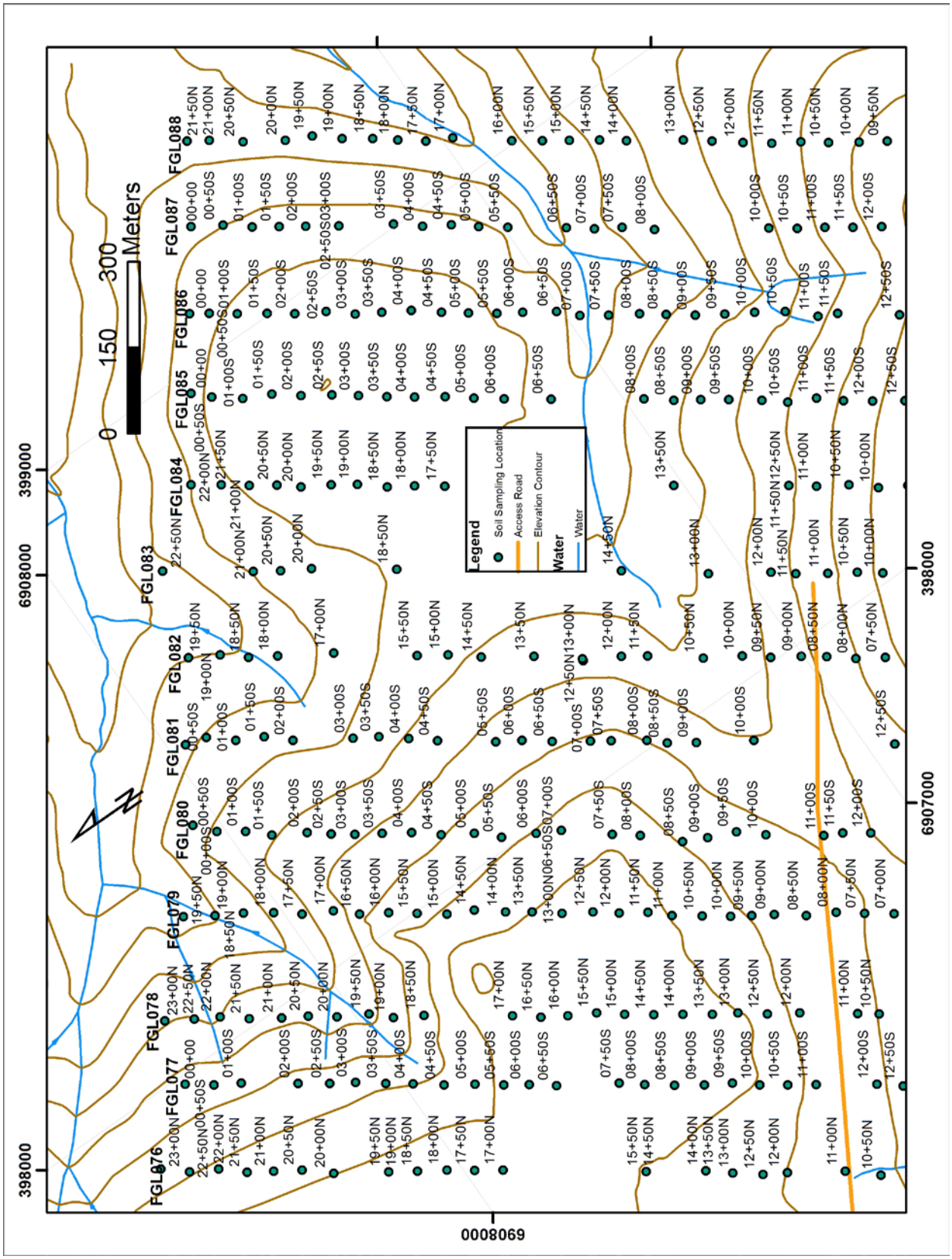


Figure 8.4a: Till (soil) Sample Locations, Tinta Property (1:10,000 scale)

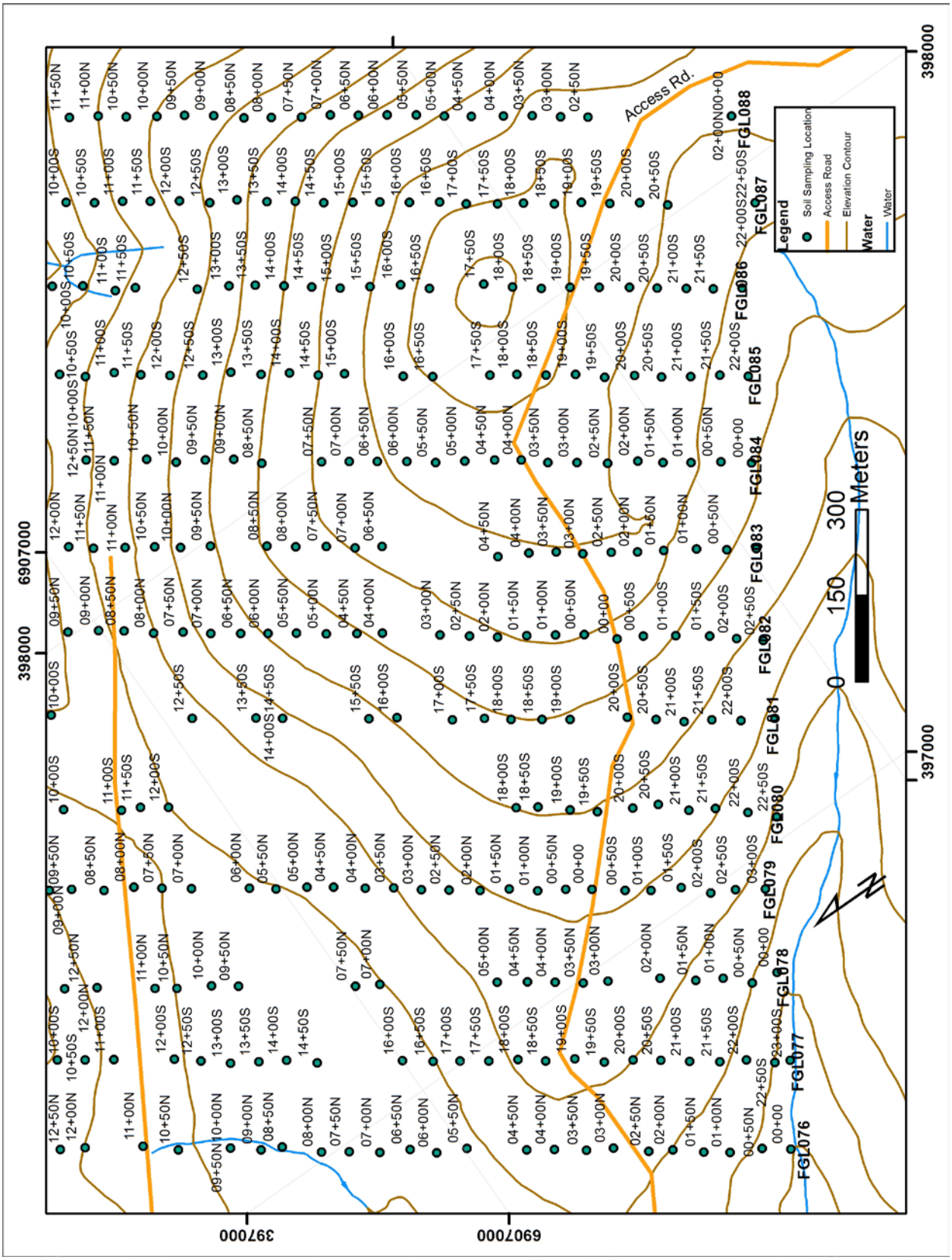


Figure 8.4b: Till (soil) Sample Locations, Tinta Property (1:10,000 scale)

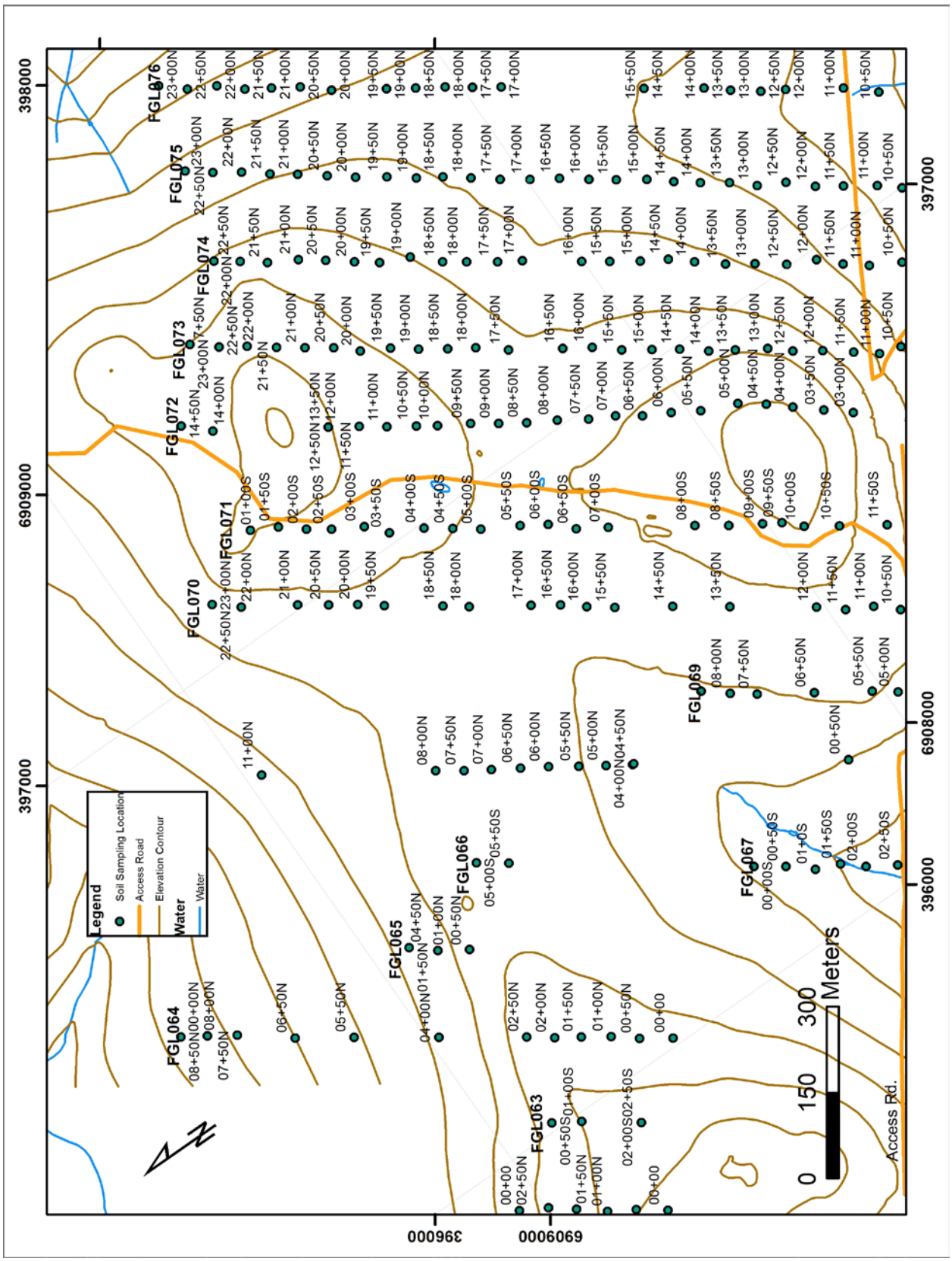


Figure 8.4c: Till (soil) Sample Locations, Tinta Property (1:10,000 scale)

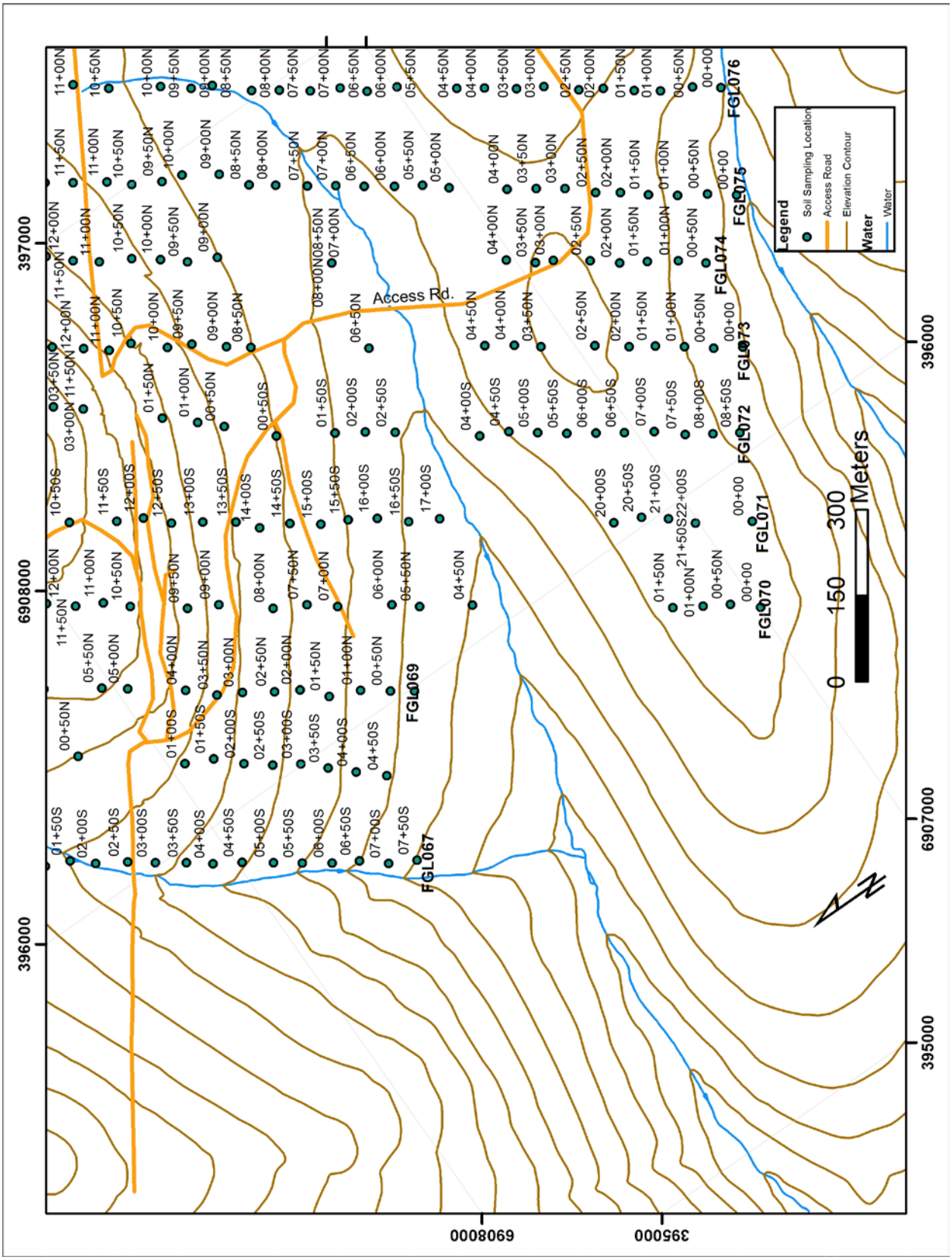


Figure 8.4d: Till (soil) Sample Locations, Tinta Property (1:10,000 scale)

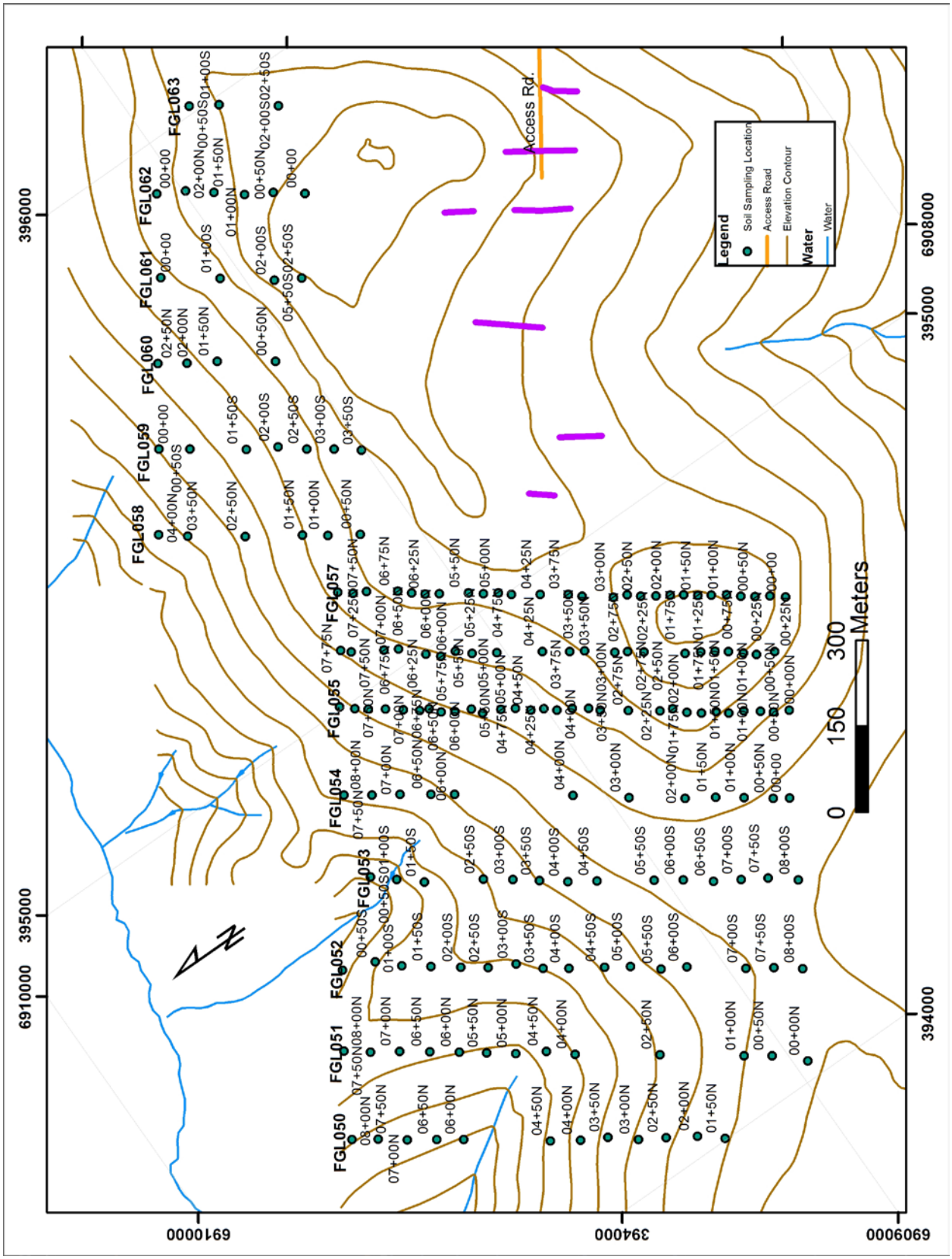


Figure 8.4e: Till (soil) Sample Locations, Tinta Property (1:10,000 scale)

8.6 Rock Sampling from Trenches–Tinta Property

Seven trenches totaling 551 metres were machine dug in a previously untrenched area along strike from known high-grade polymetallic mineralization of the Tinta vein. The trenches are located as shown in Figure 8.5.

The trenches were sampled between September 2nd and 5th, 2017. Some 73 chip samples and 18 grab samples were obtained during this period. Trenches were graduated using a hand-held GPS unit to locate the beginning of each trench and a hip-chain to measure one metre intervals that were subsequently marked with fluorescent paint. Metre intervals for each trench are shown in Figures 8.6a to c. Sample locations relative to the start of each trench are listed in the Appendix.

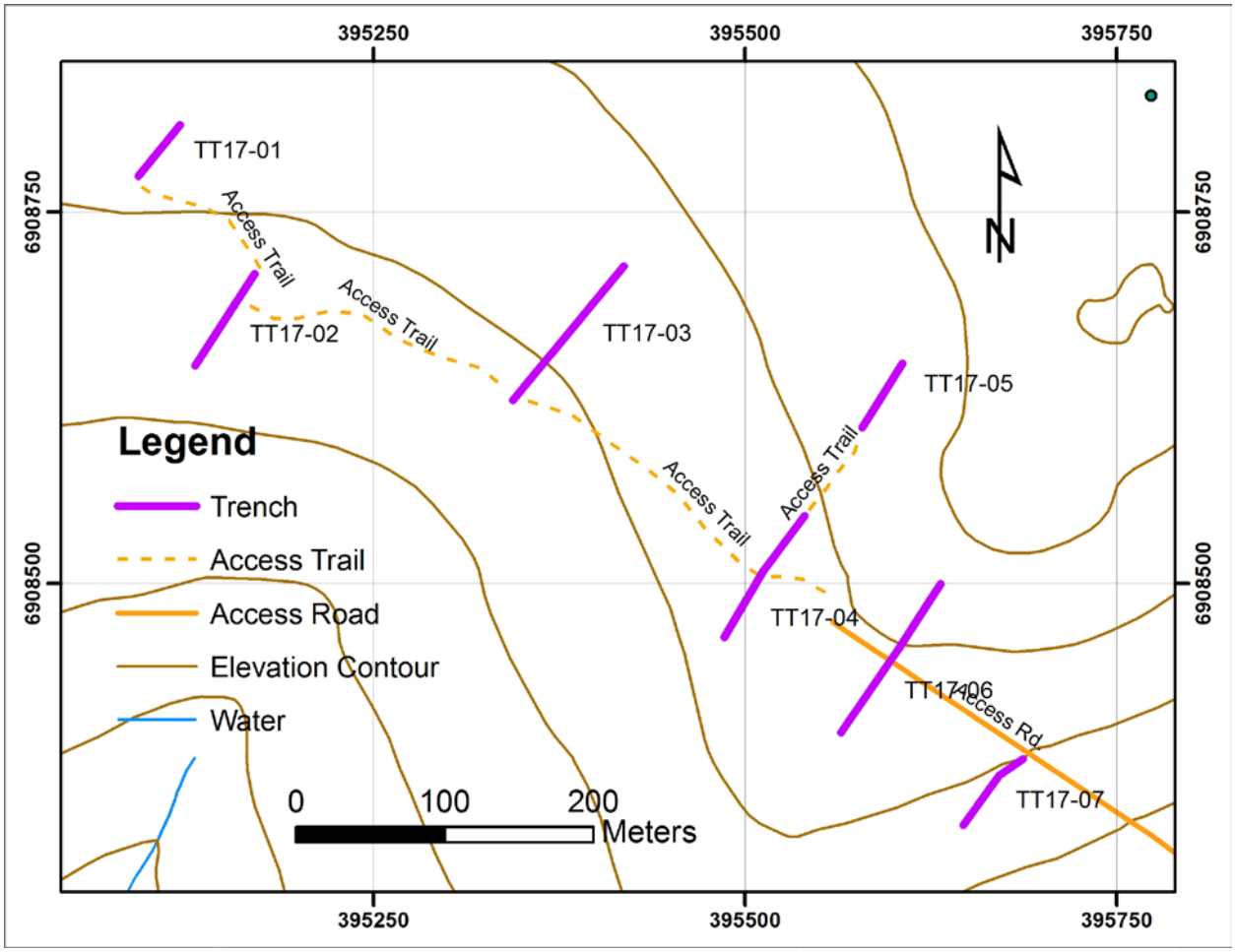


Figure 8.5: Trench Locations, Tinta Property (1:5,000 scale)

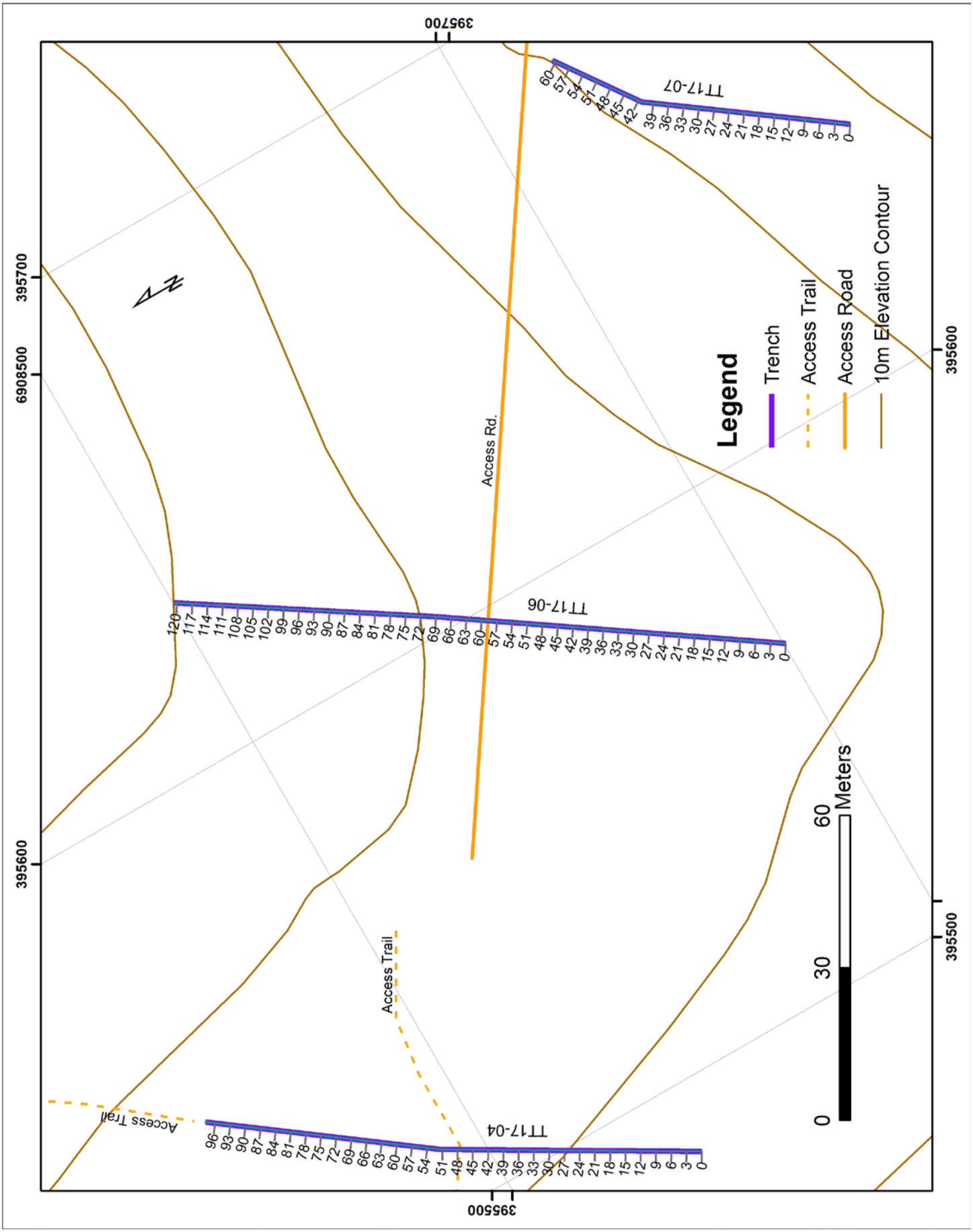


Figure 8.6a: Trench Graduations, Tinta Property (1:1000 scale)

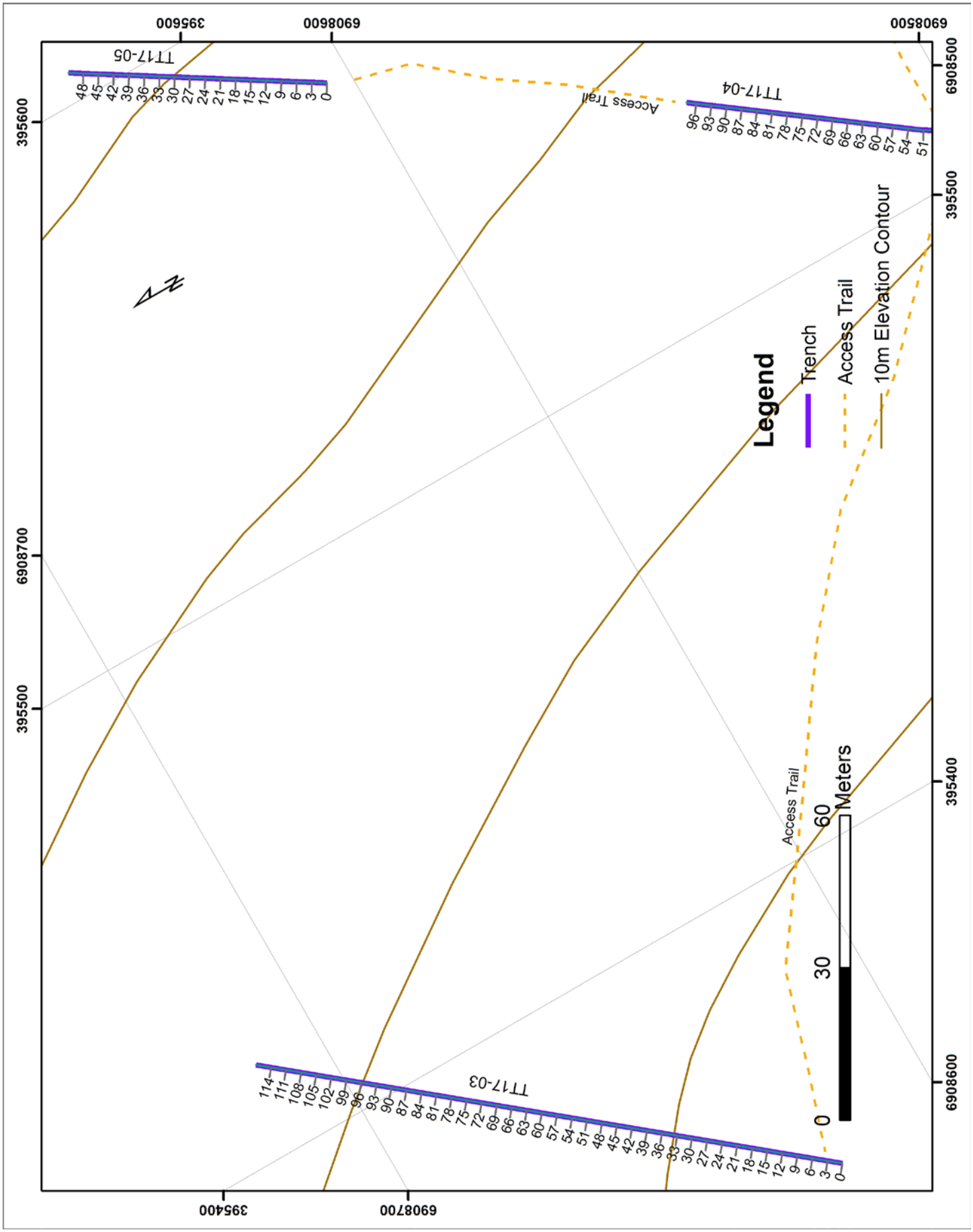


Figure 8.6b: Trench Graduations, Tinta Property (1:1000 scale)

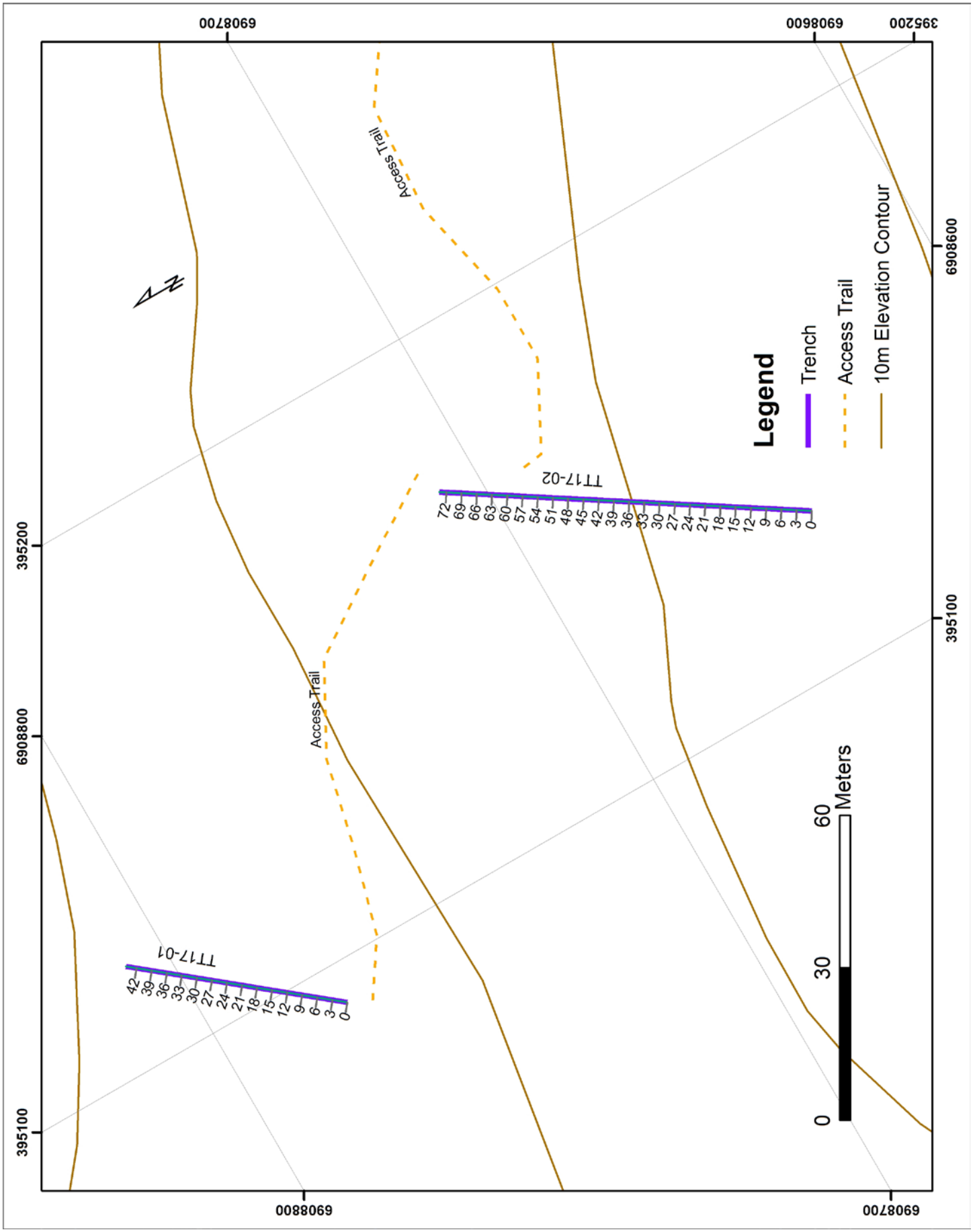


Figure 8.6c: Trench Graduations, Tinta Property (1:1000 scale)

Six of seven trenches uncovered multiple clay-altered or silicified zones up to 2.6 metres wide that contain strongly weathered quartz-chalcedony-carbonate-sulphide vein networks. Sulphide contents are highly variable due to surface weathering and common boxwork after leached sulphides. Where sulphides are preserved, they include up to 15% coarse pyrite and variable amounts of galena, sphalerite and chalcopyrite. Highlights of assays include:

Highlights of assay results include 2.1 g/t Au and 11.3 g/t Ag over 1.5m in a chip sample and 0.666 g/t Au and 13.7 g/t Ag over 1.5m in a chip sample from Trench TT17-033, 1.9 g/t Au and 40.9 g/t Ag in a grab sample and 4.9 g/t Ag, 1.5% Zn and 0.4% Pb in a grab sample from Trench TT17-04, and 0.793 g/t Au and 3.7 g/t Ag over 0.4m in a chip sample from Trench TT17-05, pictured in Photo 8.1.



Photo 8.1: Trench TT17-05

8.7 Data Processing

Assay data returned from ALS Global was compiled and processed using standard arithmetic functions and graphing capabilities of Microsoft Excel spreadsheet software. ESRI ArcGIS was used to map sample sites in plan view maps and perform simple thematic mapping.

9 – SAMPLING METHOD AND APPROACH

9.1 Background

The surface sampling and drillcore sampling program was designed by and executed under the supervision of Dr. Tony Barresi, P.Geo., and when absent, Jesse R. Halle, P.Geo., throughout the period of active sampling (June to September 2017). A description of the sampling method and approach for the 2017 drill program at Nucleus and Revenue follows.

The soil sampling program was designed by Dr. Tony Barresi, P.Geo., and executed by a field crew of four employees from TerraLogic Exploration Ltd. The trench sampling program was designed and executed by Jesse R. Halle, P.Geo with two field assistants for four days in early September 2017.

9.2 Drillcore Sampling Method

Triumph Gold Corp has implemented a quality control procedure to ensure that drillcore is handled, sampled, and analyzed according to best practice protocols, that samples are representative of mineralization intersected by drilling, and that no systematic sample bias has occurred. Only authorized personnel are permitted access to the core shack and drill core.

Upon receipt from the drill, drillcore in coreboxes undergoes geotechnical logging. Each corebox is examined to ensure the hole number, box number, and marker block locations are correct. Next, measurements for drillcore recovery and Rock Quality Designation (RQD) are recorded between drill run markers. Magnetic susceptibility measurements are also taken in 1m intervals using a GDD MPP-EM2S+ probe.

After drillcore is logged, the intervals to be sampled for geochemical analysis were marked and recorded by a geologist. Overburden and caved material was not sampled. Sampled intervals were generally not less than 1m or longer than 2m, though an occasional longer sample is warranted due to core loss and/or poor recovery. Cutting lines were only marked on the core when it was deemed necessary by the geologist for a more representative sample.

Prior to submission for final cutting, drillcore was photographed then sampled for terraspectomety work. These samples for alteration studies were collected roughly every 10m, selected based on the occurrence of clay minerals in the core. These samples were ~5cm pieces that were put into a properly-labelled paper soil bag and shipped to Saint Mary's University in Halifax to be analyzed. A summary of drillcore sampling is presented in Table 9.1.

Table 9.1: Drillcore Sampling Overview

Sample Type – Program	Number of Samples
Drillcore Samples – Drill Program	6894
Standard Samples – Drill Program	385
Blank Samples – Drill Program	399
Laboratory Samples Duplicated on Drillcore	200 (approx.)
Terraspectrometry Samples	1231
Surface Rock Samples – Field Program	18
Total	

9.3 Soil Sampling Method

Soil samples were attempted on a UTM grid spaced consisting of numerous lines spaced at 100m, each containing stations at 25m or 50m intervals. A hand-held GPS unit was used to locate sampling locations. A four-foot-long, hand-operated soil auger was used to sample an approximately 15cm plug of till material. Till samples were sometimes impossible to obtain due to permafrost, excessively thick organics, or wet areas. Notes were taken describing the composition, colour, and grain-sizes present, and the sampled material was placed in a labelled soil bag. Later, all soil samples were placed in larger poly bags and shipped directly to the ALS Global preparation laboratory in Whitehorse.

9.4 Trench Sampling Method

Each trench was located using a hand-held GPS unit to record the beginning (southwest end) of the trench. A hip-chain was used to measure one metre intervals along the length of the trench. Whole meterages were marked with fluorescent paint and attempts were made for slope-correction. The azimuthal orientation was also noted at the beginning of each trench, and in general, trenches were straight. If a bend or kink was noted, new azimuths were taken at the change and drafted accordingly.

The entire length of one side of the trench was freshened with hand-tools prior to a geologist logging the trenches. Intervals were marked for sampling where sulphide mineralization was noted and immediately adjacent sulphide intervals. On average, the chip sample intervals were 1.46m. Chip sampling involved collecting volumes of rock of equal sizes along the entire sample-interval and placing it and a sample tag in a sample bag. The sample tag booklet was marked with the trench and the sample interval. Where warranted, grab-samples of high-grade material from within previously sampled intervals were also collected. Grab samples consisted of one or two hand-sized pieces of rock from a single location.

9.5 Collar Surveys

On the Revenue Property, the majority of drillholes prior to 2011 were accurately surveyed by Underhill Geomatics Ltd and are considered sufficiently accurate for the ore resource estimation at that time. Drillhole collars from 2011 and 2017 have not been professionally surveyed.

9.6 Downhole Surveys

Triumph Gold Corp commissioned downhole surveys to be completed every 50m on all diamond drill holes performed during 2017. Kluane Drilling Ltd trained their employees in the proper execution of drillhole orientation surveys on both a ReFlex EZ-shot and a DeviCo Devi-Shot downhole instrument. All downhole orientation measurements were conducted by the drill crew during drilling and given directly to the logging geologist at the end of the drilling shift. In general, drillholes displayed little deviation during drilling.

9.7 Specific Gravity Surveys

Specific Gravity measurements were performed on representative samples of drillcore once every 20m downhole. Sample weights in air and in water were recorded and then the specific gravity was recorded using the formula: *weight in air/(weight in air-weight in water)*. An Ohaus Scout Pro digital scale able to measure to 1/1000 of a gram was used. All measurements were promptly entered to spreadsheets prior to starting new drillholes. A total of 592 sample intervals were measured for specific gravity from the 2017 drilling campaign.

10 – SAMPLE PREPARATION, ANAYSES, AND SECURITY

10.1 Overview

Drillcore analysis was conducted using strict quality assurance/quality control (QA/QC) and sample security protocols. The 2017 QA/QC program consisted of the regular insertion of sample standards and blanks into the drillcore sample stream. Drillcore samples were trucked by an accredited transportation company who in turn shipped samples to ALS Global Laboratories in Whitehore, Yukon. Soil samples and trench samples from Tinta were not subject to QA/QC measures, apart from that employed by the laboratory. A discussion on sample preparation, analytical procedures, performance of QA/QC, and security measures for drillhole and surface rock samples is presented in their respective sections below.

10.2 Soil Sample Preparation and Analysis

No further preparation of soil samples in the field is required after sampling before shipment to the laboratory.

At the laboratory, soil samples were dried and screened to 180 microns, 0.5g of which is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry (ICP-AES). Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analyzed by ICP-MS for the remaining suite of elements. Analytical results are corrected for inter element spectral interferences.

10.3 Drillcore Sample Preparation

All core-cutting and sampling was performed by core splitters at the Revenue Camp whose work was supervised by the logging geologist.

The entire length of each hole was cut with a coresaw with one half of the core being placed directly into a polybag and the other half returned to the corebox. Core-cutters were consistent as to which half of the core was replaced in the box and which half was sampled for analysis. Each polybag was labelled with the unique sample number, stapled at the opening with the sample tag, and closed with a zip-tie. Drillcore samples were then placed in numbered rice-bags, which were then closed with zip-straps and placed into apple bins (‘pallet boxes’) whose lids were sealed to await shipping. The cutting shack pictured in Photo 10.1.

The majority of drillcore samples were shipped via Smalls Expediting Services Ltd. to their secure facility where they would await transport to ALS Global Laboratories Ltd. (ALS) sample preparation facility on Mt. Sima Rd. in Whitehorse the next business day. More rarely, drillcore samples were shipped on trucks driven by Triumph Gold Corp personnel directly to the ALS facility in Whitehorse.



Photo 10.1: core-cutting and sampling

All sample batches included commercial standards and company blanks, which were alternately inserted every tenth sample with additional QC samples inserted at the discretion of the logging geologist. Coreboxes from 2017 drilling are stored at the Revenue Camp in permanent coreracks, specifically designed and constructed for 2017 drillcore.

A total of 6894 drillcore samples, ranging from 0.48m to 3.95m in length with an average length 1.81m, were collected. Typically, samples over 3m occurred at the beginning of a hole with poor core recovery. All core sampling is supervised on site by the geologist. Sampling begins below overburden and is continuous to the end of the hole.

10.4 Drillcore Analysis

ALS Global Laboratories is an ISO-17025-certified analytical laboratory. Accreditation to this ISO standard involves detailed, on-site audits to evaluate our quality management system and verify the technical competence of our methods and personnel. This technical verification includes the requirement for successful participation in inter-laboratory proficiency testing programs and full method validation.

Samples are received by the preparation laboratory with the issuance of chain of custody paperwork. The samples are placed into a secure storage area where they await an electronic scanner, which automatically logs the sample numbers into the ALS system. This system allows both ALS and Triumph Gold to track any and all samples through each stage of the sample preparation process.

As requested by ALS's Prep-35B code, all drillcore samples are weighed, dried, and crushed using an oscillating jaw crusher to >70% passing through a 2mm mesh screen. A 250g sample was subdivided from this material using a riffle splitter then pulverized to at least 95% passing 106 microns. A 30g sample to be shipped to the main North American laboratory in North Vancouver, BC for final analysis. ALS ensures no contamination of samples by passing barren material and compressed air through the crushing and pulverizing equipment between each sample.

The pulverized samples were analyzed for gold through fire assay and atomic absorption spectroscopy (FA/AAS) required by the Au-AA23 code. Samples that returned greater or equal to 1ppm Au were re-assayed by with a gravimetric finish. Cu, Ag, Mo, W, and 31 other elements were estimated via aqua regia digestion and inductively coupled plasma atomic emission spectroscopy (ICP-AES) as denoted by ME-ICP41.

Geochemical results from ALS are forwarded electronically and by regular mail to Triumph Golds office in Vancouver where the final assay certificates are presently on file and catalogued. Drillcore sample pulps are stored at West Coast Mineral Storage Ltd. in Maple Ridge, BC.

10.5 Drillcore Sample QA/QC Program

A QA/QC Program monitors data accuracy, precision, and any potential sample contamination. Accuracy is usually monitored by the insertion of certified standards and/or by check analysis at a secondary laboratory. Precision of the sampling and analytical process is monitored by submitting blind field duplicates to the primary laboratory. Contamination is monitored by inserting field blanks into the sample stream, and assessing results according to an established warning limit. Primary components of the field QA/QC program for the Project included:

- A reference ("standard") sample inserted with a frequency of approximately 1 in 20 samples in order to monitor analytical accuracy and
- A field blank inserted at a frequency of approximately 1 in 20 samples in order to check possible contamination originating at the laboratory

Commercially prepared certified standards were inserted at regular intervals of one (1) within every 20 core samples. These standards will be supplied to Triumph Gold Corp from CDN Resource Laboratories Ltd, 10945-B River Road, Delta, B.C. The recommended gold, copper and molybdenum values for these standards are in the table below.

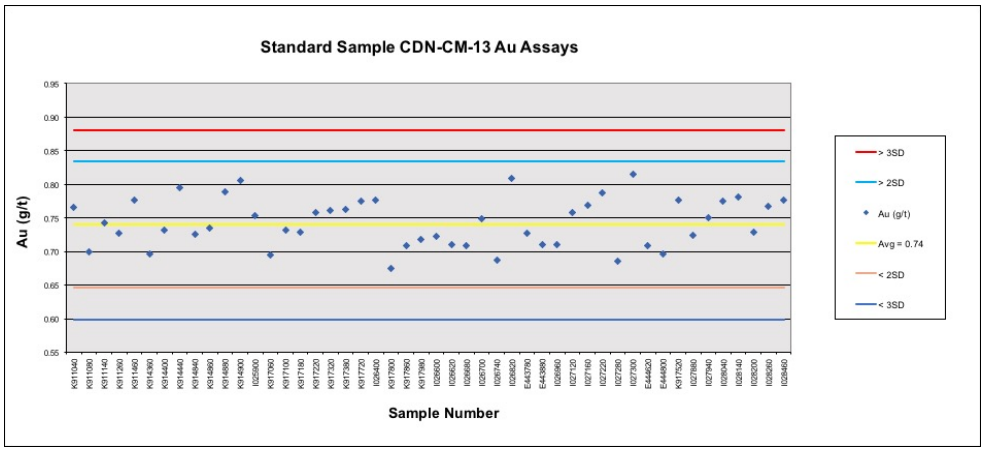
Table 10.1: QA/QC Reference Standards used in 2017 drillcore submissions

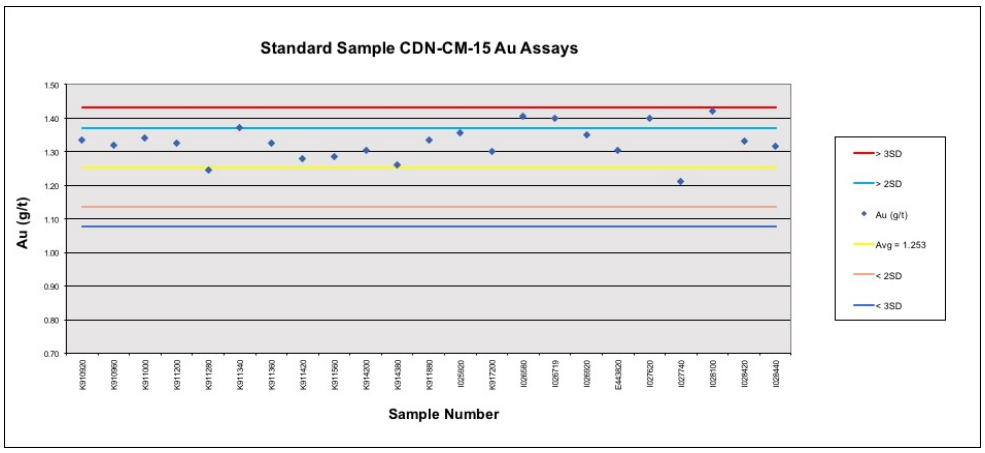
Standard	Recommended Gold Value with 2SD	Recommended Copper Value with 2SD	Recommended Moly Value with 2SD	No. of Standards Assayed
CDN-CM-13	0.740 +/- 0.094 g/t	7860 +/- 360 ppm	440 +/- 40 ppm	48
CDN-CM-15	1.253 +/- 0.118 g/t	12800 +/- 900 ppm	540 +/- 40 ppm	24
CDN-CM-20	0.278 +/- 0.044 g/t	3140 +/- 140 ppm	300 +/- 40 ppm	87
CDN-CM-35	0.324 +/- 0.032 g/t	2480 +/- 120ppm	290 +/- 20 ppm	196
CDN-CM-39	0.687 +/- 0.064 g/t	5330 +/- 200 ppm	135 +/- 14 ppm	22
CDN-GS-4C	4.260 +/- 0.22 g/t	Not applicable	Not applicable	8
Total				385

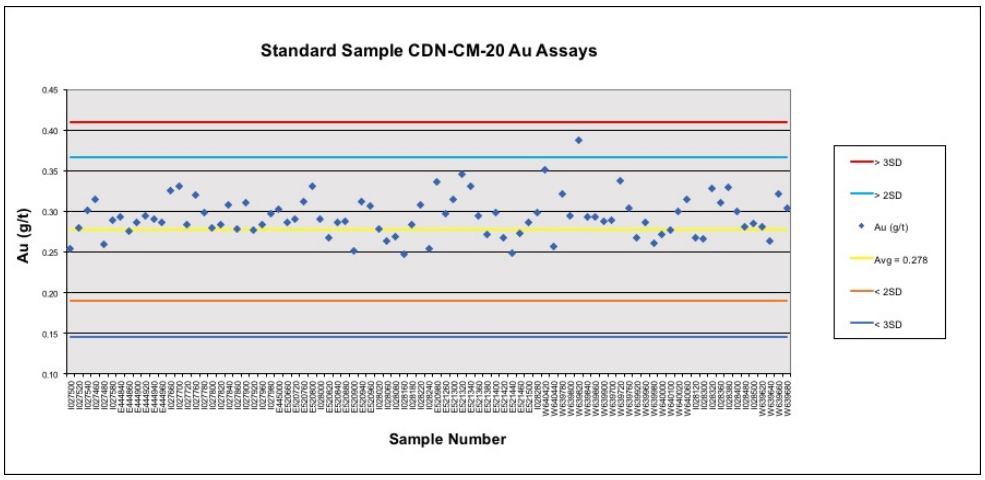
Two sources of ornamental garden stones were used for the purposes of a blank sample and inserted into the sample series throughout active drillcore sampling. The first batch were sourced from 18kg bags of “large marble” stones from AllTreat Farms, headquartered in Ontario. The second batch was sourced from 18kg bags of “large white stone” from Premier Tech of Mississauga, ON. Both batches were noted to be composed of white, very coarse-grained stones composed chiefly of calcium carbonate. AllTreat sources their marble from quarries located in eastern Ontario.

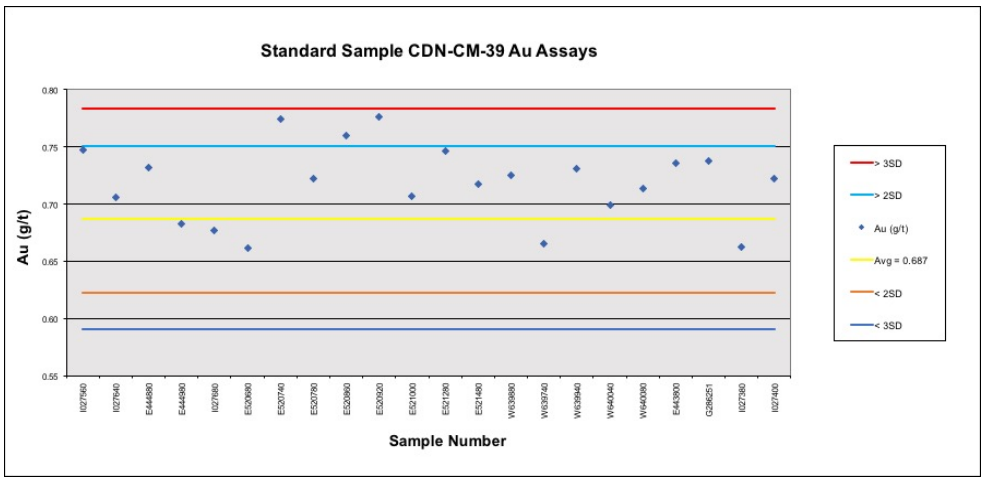
Laboratory Accuracy – Reference (Standard) Sample Performance, Au

The following figures compare the assayed values for Au, Cu, and Mo in all standard samples against the expected or known values. The majority of gold assays using the Fire Assay –Atomic Absorption method were within two standard deviations of the accepted value, indicating variances that met acceptable standards. All 27 of 385 (7.0%) of the assay values outside of 2 standard deviations were higher than the accepted range of values, the majority (19) of which occurred from values originating from standard CDN-CM-35. One possibility for this error is that the published Au value of this standard contains an error. However, a systematic error relating to generally high gold estimations is apparent in Figure 10.1a to 10.1e, below.




Standard Sample CDN-CM-15 Au Assays
Au (g/t)
Sample Number
> 3SD
> 2SD
Au (g/t)
Avg = 1.253
< 2SD
< 3SD


Standard Sample CDN-CM-20 Au Assays
Au (g/t)
Sample Number
> 3SD
> 2SD
Au (g/t)
Avg = 0.278
< 2SD
< 3SD


Standard Sample CDN-CM-39 Au Assays
Au (g/t)
Sample Number
> 3SD
> 2SD
Au (g/t)
Avg = 0.687
< 2SD
< 3SD

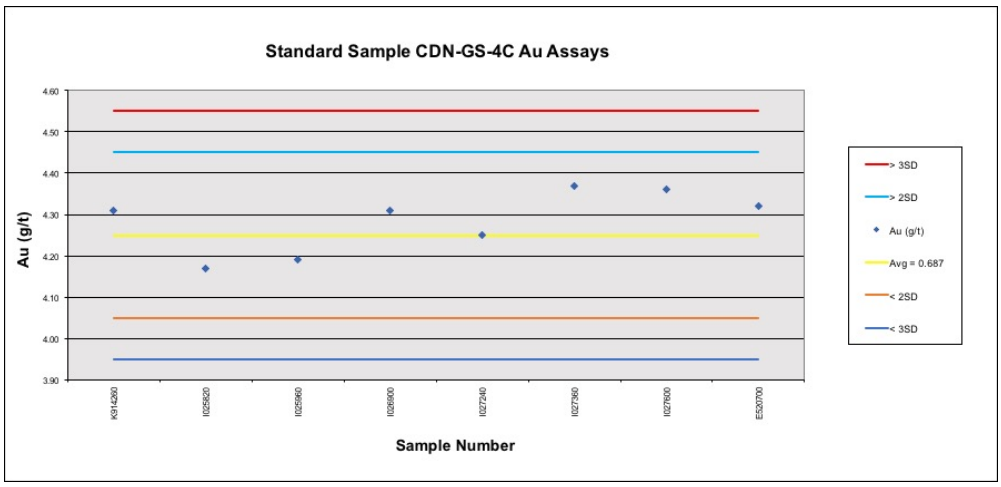
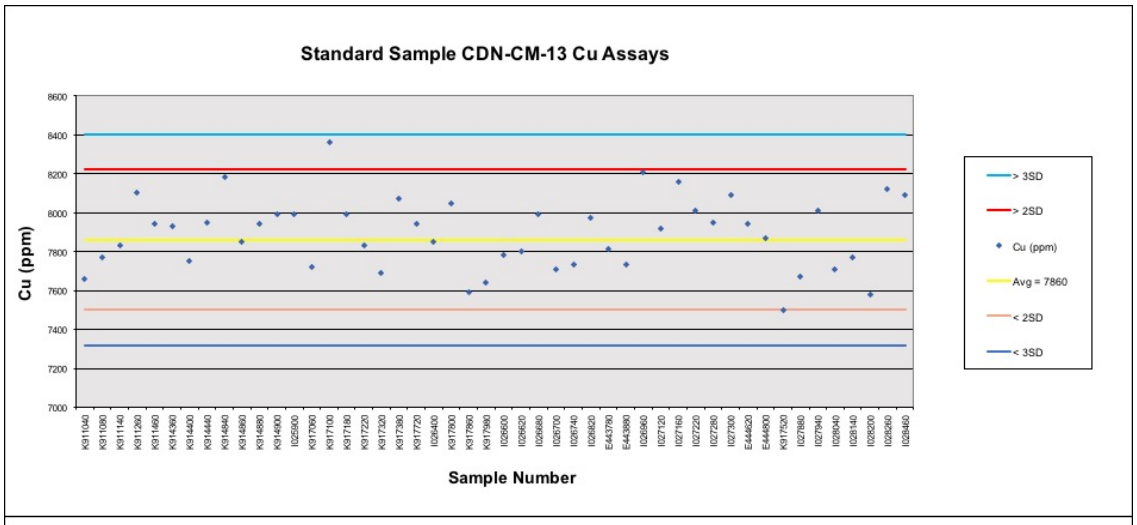
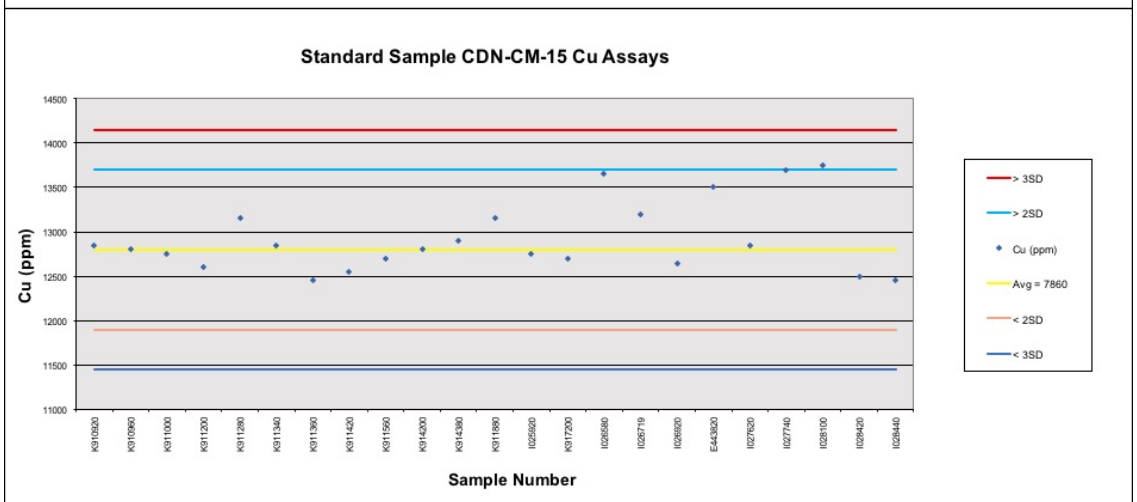


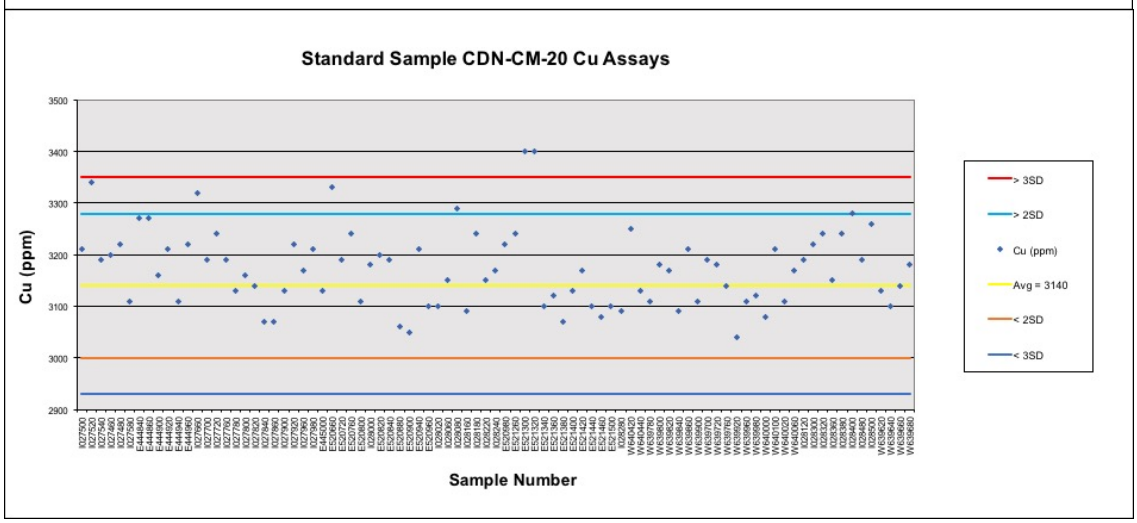
Figure 10.1a to 10.1e: Gold results for field standard samples

Laboratory Accuracy – Reference (Standard) Sample Performance, Cu

The majority of copper assays (366 of 385) using the Aqua Regia ICP method were within two standard deviations of the accepted value, indicating variances that met acceptable standards. Some 18 of 385 (4.7%) of the assay values outside of 2 standard deviations were higher than the accepted range of values, the majority (10) of which occurred from values originating from standard CDN-CM-35. Similar to that noted for gold values Au above, a possibility for this error is that the published value of Cu of standard CDN-CM-35 is in error. The last four sample numbers in the table for CDN-CM-39 (below) are most likely not from this data set, but part of drillcore assays or other standards. Their true origin has not been resolved.


Standard Sample CDN-CM-13 Cu Assays
Cu (ppm)
Sample Number
> 3SD
> 2SD
Cu (ppm)
Avg = 7860
< 2SD
< 3SD


Standard Sample CDN-CM-15 Cu Assays
Cu (ppm)
Sample Number
> 3SD
> 2SD
Cu (ppm)
Avg = 7860
< 2SD
< 3SD


Standard Sample CDN-CM-20 Cu Assays
Cu (ppm)
Sample Number
> 3SD
> 2SD
Cu (ppm)
Avg = 3140
< 2SD
< 3SD

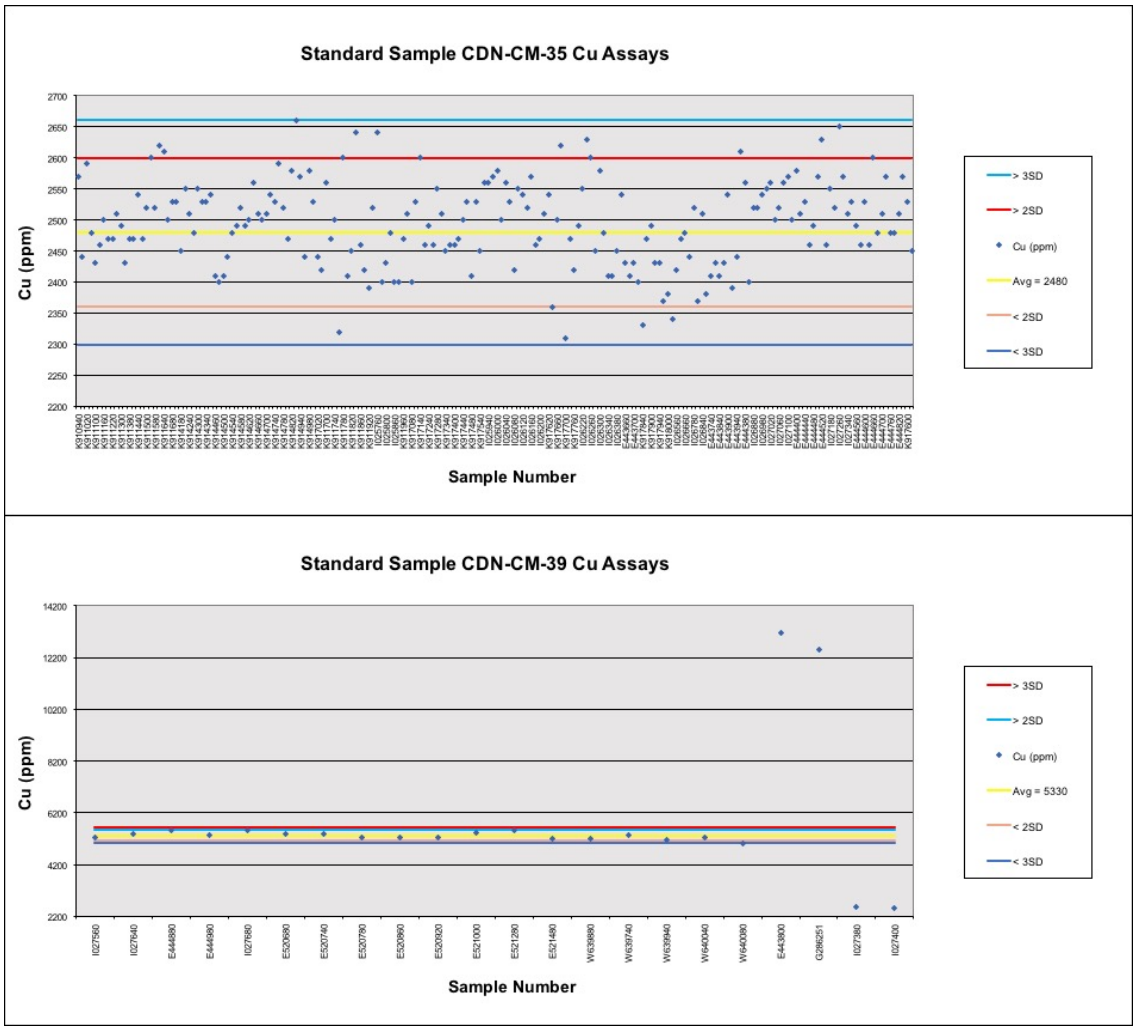
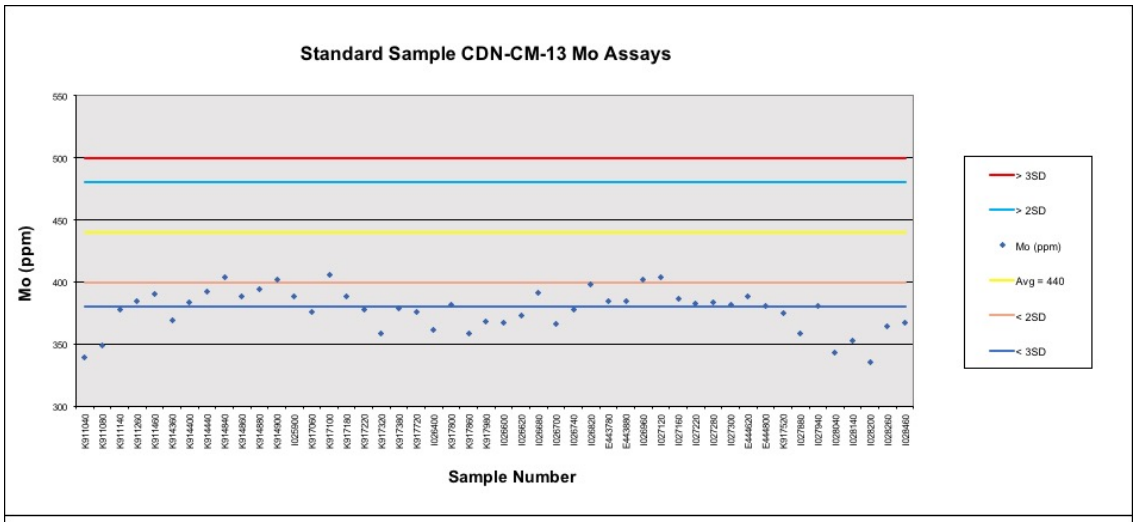
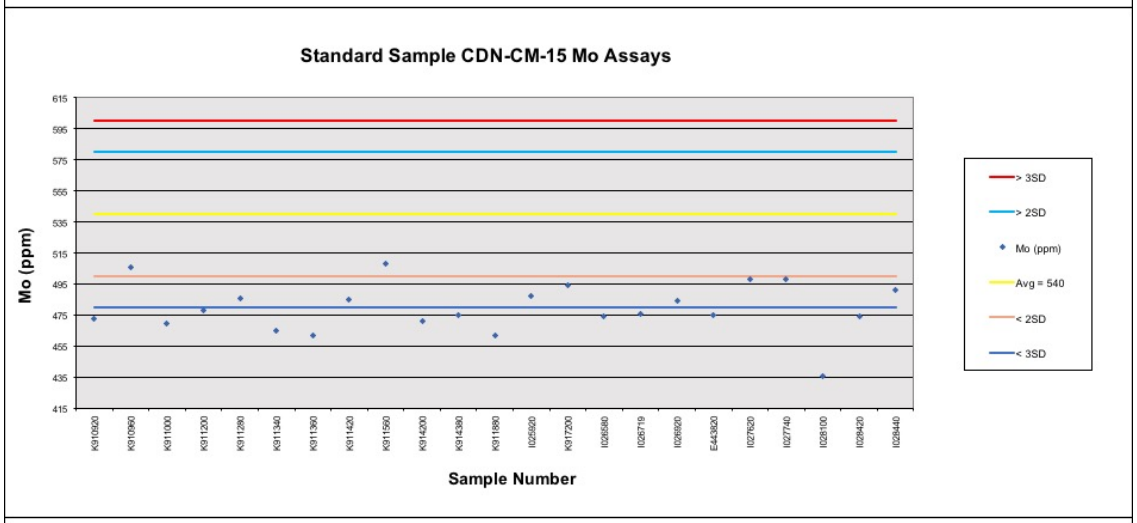


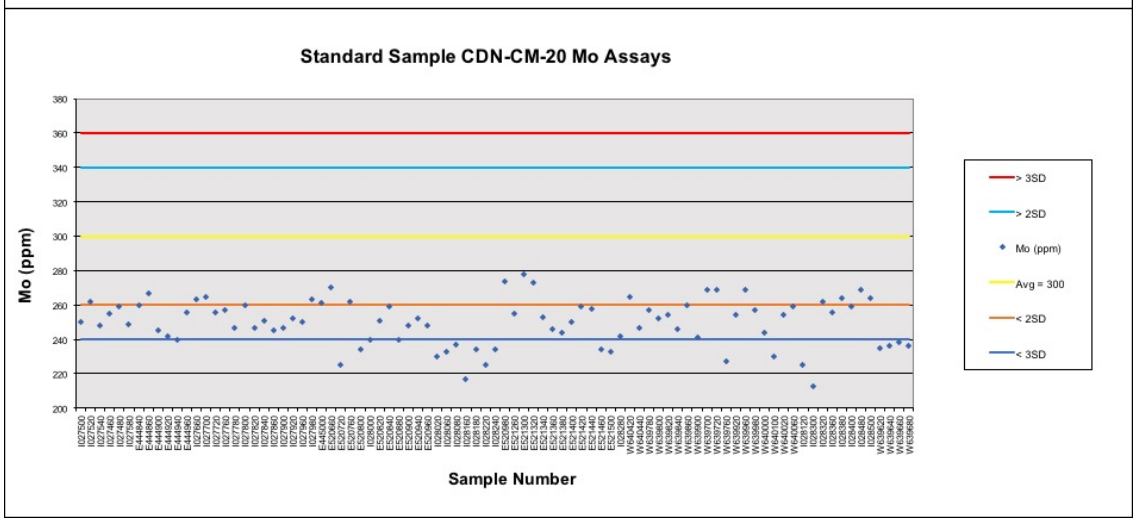
Figure 10.2a to 10.2e: Copper results from field standard samples

Laboratory Accuracy – Reference (Standard) Sample Performance, Mo

The vast majority of molybdenum assays (317 of 385) using the Aqua Regia ICP method were outside of two standard deviations of the accepted value. Some 82.3% of the assay values outside of 2 standard deviations were lower than the accepted range of values. A systematic error on the part of the laboratory has occurred that underquantifies the true concentrations of Mo. It is possible that a correction could be applied to the dataset to more accurately estimate concentrations of Mo, but currently the data cannot be relied upon. In 2011, Mo values also analyzed consistently low, with 40% of the standard assay 2 standard deviations of the accepted value.


Standard Sample CDN-CM-13 Mo Assays
Mo (ppm)
Sample Number
> 3SD
> 2SD
Mo (ppm)
Avg = 440
< 2SD
< 3SD


Standard Sample CDN-CM-15 Mo Assays
Mo (ppm)
Sample Number
> 3SD
> 2SD
Mo (ppm)
Avg = 540
< 2SD
< 3SD


Standard Sample CDN-CM-20 Mo Assays
Mo (ppm)
Sample Number
> 3SD
> 2SD
Mo (ppm)
Avg = 300
< 2SD
< 3SD

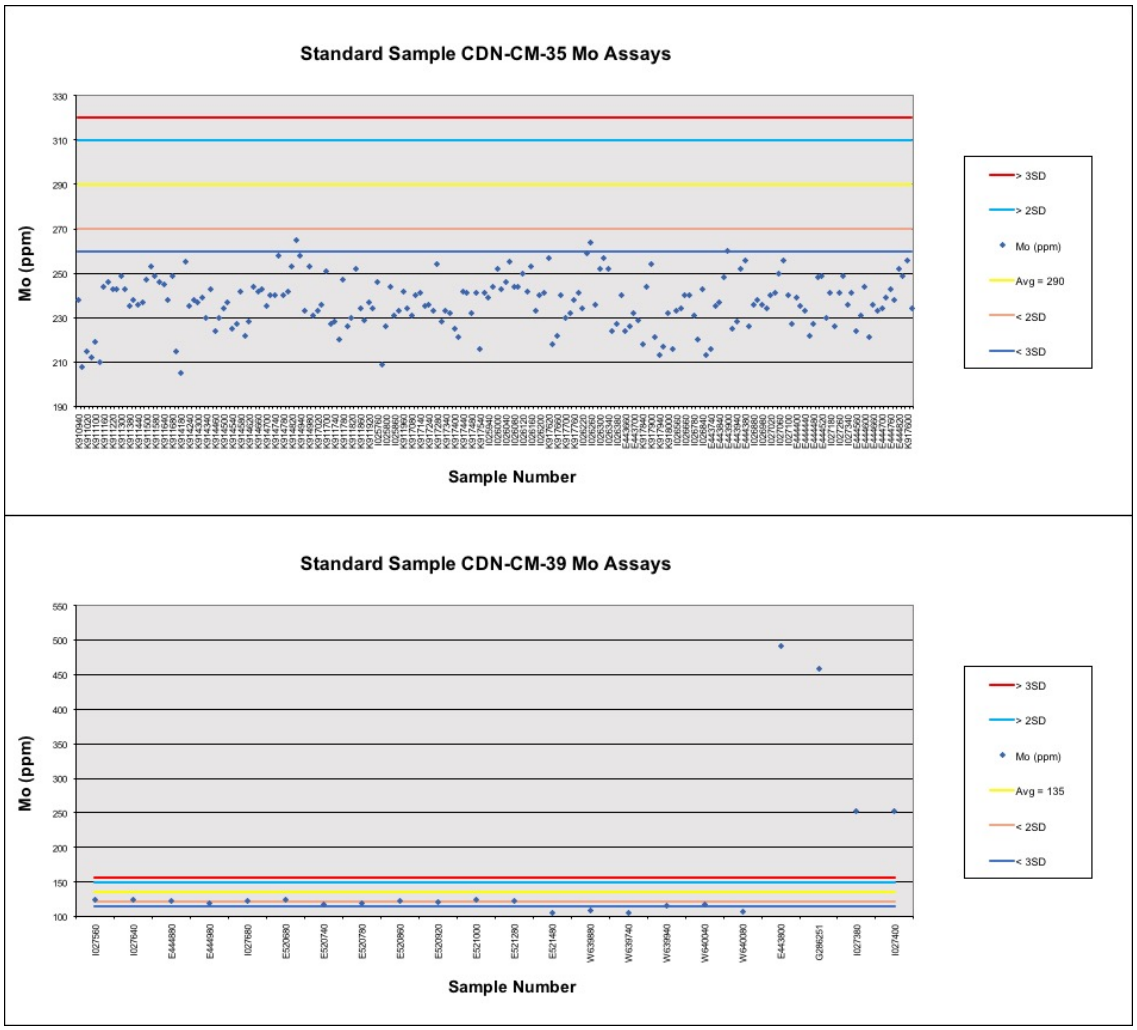


Figure 10.3a to 10.3e: Molybdenum results from field standard samples

In general, the standard assays have gauged laboratory accuracy exhibiting acceptable Au and Cu values, but unreliable Mo values.

Sample Contamination – Field Blank Performance

Examination of the results shows that of 399 blanks submitted for assay, 354 returned values of Au below detection limits. Though the blanks were derived from ornamental stone (marble) and therefore not certified as zero grade, Au values were still expected to be below the detection limit for Au. As expected, 88.7% of results were below the analytical detection limit for Au, indicating the blanks were very low in Au and show that the lab had a low rate of transfer of material between samples.

If a value of one half the lower detection limit is assumed, a standard deviation can be calculated for the samples, as shown in the figures below. Six gold and 5 Cu blank samples are shown to reside above 2 standard deviations of the mean. Blank sample E344790 is responsible for both a Au and Cu outlier, evidence for sample contamination at the laboratory.

The rate of sample contamination is estimated to be 1.5% and as such indicate that cross-contamination or sample mix-up was a minor issue in the sampling and assaying program.

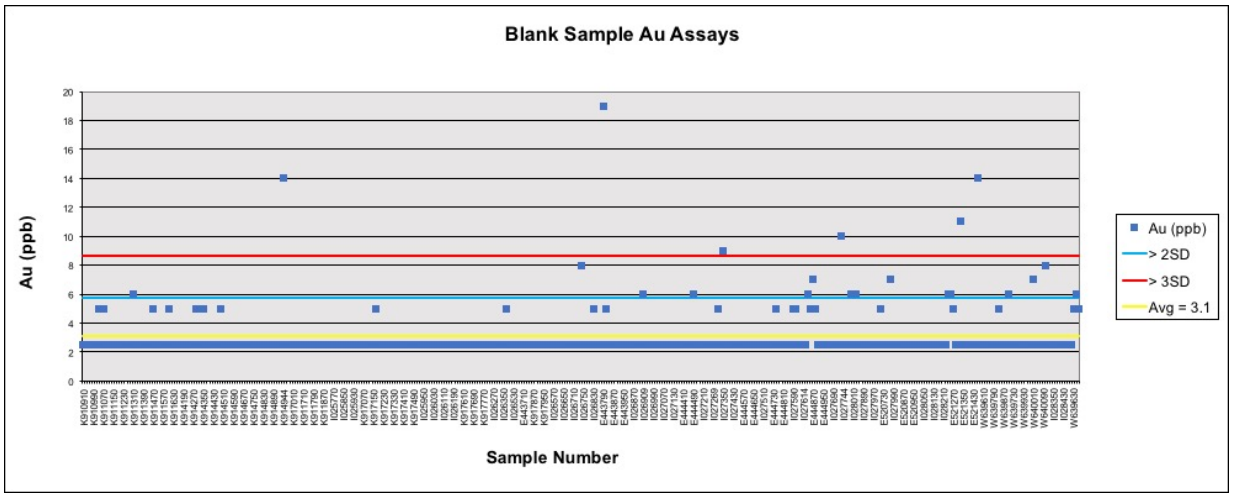


Figure 10.4: Blank sample results for Au

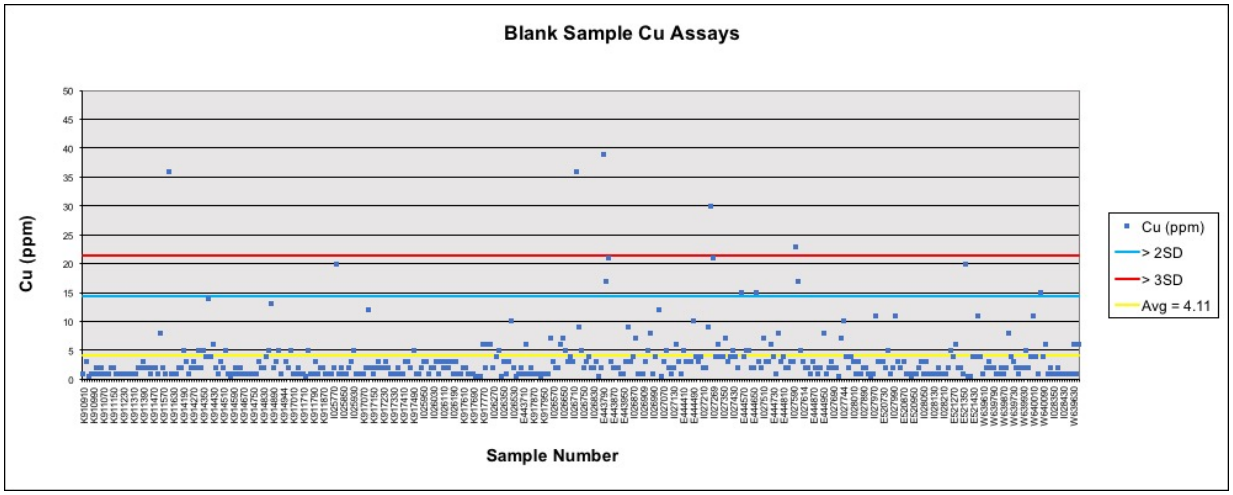


Figure 10.5: Blank sample results for Cu

Laboratory Precision - Duplicate Samples

An external laboratory was not employed for check analysis for drillcore samples from the 2017 drilling campaign. Instead, the internal check assays conducted by ALS are presented as duplicates. The results of these internal checks are considered satisfactory for the current exploration work. See Section 10.6 for a discussion of these results.

10.6 ALS Global Laboratories QA/QC Program

In addition to standards and blanks submitted by Triumph Gold for the 2017 drill program, ALS Global conducts its own internal quality control by re-assaying samples to check the performance of the

machines and ensure that proper digestion occurs in the wet lab. Results for 199 Cu duplicates, 205 Mo duplicates, and 134 Au duplicates were found from the current program on the secure ALS website. ALS Global performs many other check assays on their own blanks and standards. The duplicate data is presented here.

The results from internal duplicates for Cu, Mo, and Au are plotted against their respective original field results in Figures 10.6, 10.7, and 10.8 (respectively). Nineteen duplicated samples (or 9.5% of the total duplicates) are outside the analytical error for Cu, which is published by ALS Global as +/-7% using ICP techniques. The majority of these samples occur below 20ppm, close to the detection limit of Cu at 5ppm.

Fifteen duplicated samples (or 7.3% of the total duplicates) are outside the analytical error for Mo, which is published by ALS Global as +/-10% using ICP. The majority of these samples occur below 5ppm, close to the detection limit of Mo at 1ppm.

A much larger percentage (36.6%) of duplicated samples are outside the analytical error for Au, which is published by ALS Global as +/-10% using FA. Almost half (22 of 49) of these samples occur close to the detection limit of Au at 5ppb. Seven of these samples occur at concentrations over 99ppb. A possible reason for this heightened error lies with the physical properties of gold resulting in homogenization difficulties. Of all duplicated samples found outside the error, 20 of the duplicated samples were above the error and 29 were below the error.

In general, the overall precision of the data is considered acceptable.

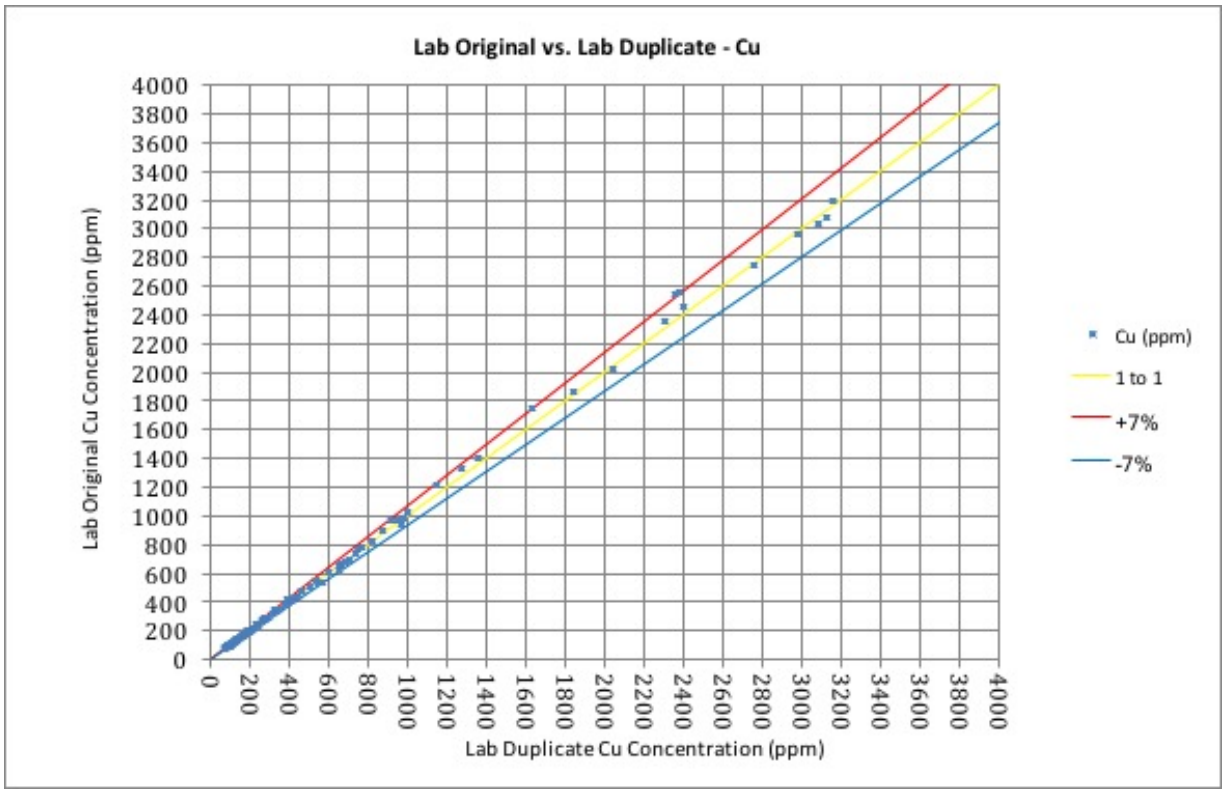


Figure 10.6: Laboratory Duplicate precision for Cu

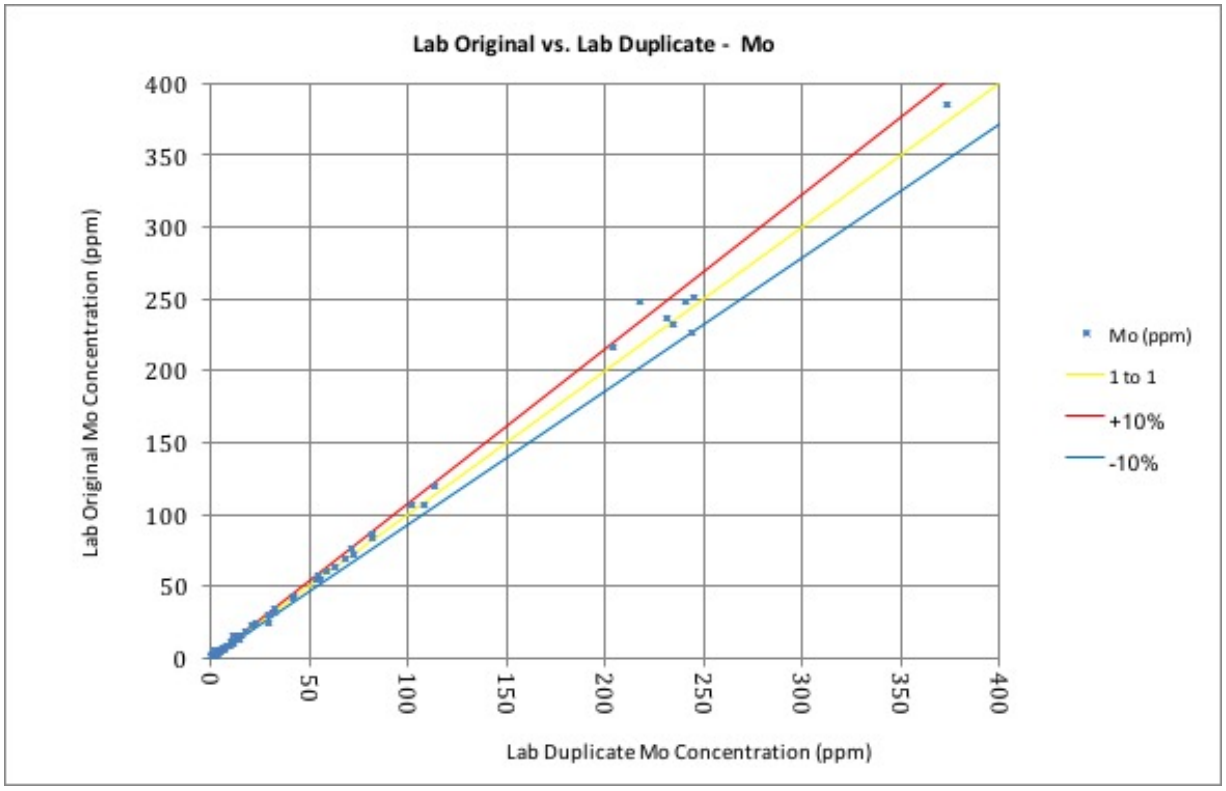


Figure 10.7: Laboratory Duplicates precision for Mo

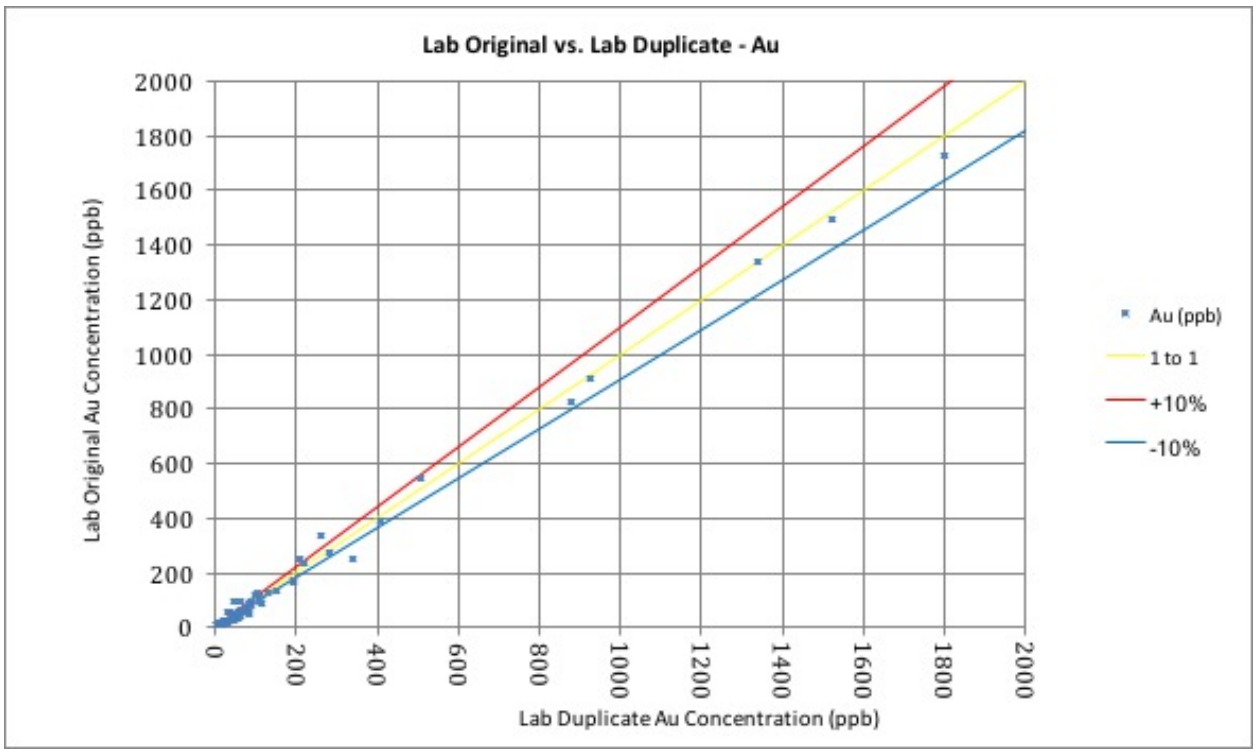


Figure 10.8: Laboratory Duplicate precision for Au

10.7 Sample Security

There is an established and firm chain of custody procedure for Project sampling, storage, and shipping. The majority of drillcore samples were driven each week by an accredited expediting service who would in turn deliver it to the ALS Global Preparation Laboratory in Whitehorse Yukon. More rarely, samples were taken directly to ALS by Triumph Gold Corp personnel in Project vehicles.

11 – CONCLUSIONS AND RECOMMENDATIONS

The Freegold Mountain Project is situated in a region with exceptional potential for further discovery of high-grade Au and base-metal mineralization. At Revenue, recognition of early porphyry-copper-style mineralization predating later diatreme-related epithermal-style mineralization has resulted in the discovery of new, exceptionally high-grade Cu and Au zones beyond the current calculated resource. These new zones have a strong potential to grow the resource and warrant further exploration through means of denser geochemical sampling, trenching, and diamond drilling.

The drilling program at Nucleus was aimed at testing a number of soil geochemical, geophysical, untested high-grade zones and extensions of the known deposits. Drill results extended the area of known mineralization, especially to the south, as well as intersected zones of very high-grade gold within the resource. Combined, these results also have the potential to grow the known resource. Though much time and effort has been spent at mineral exploration at Nucleus, the parameters controlling mineralization are poorly understood. Future work at Nucleus should seek to better model the deposit such that exploration efforts outside the resource are more successful.

Historically, exploration focused on Revenue and Nucleus to bring the two deposits into a calculated resource. Exploration on the basis of property-scale geochemical and geophysical anomalies surrounding Revenue and Nucleus have all been successful in supporting a massive hydrothermal system that links the two resources and extends for over 6km. Anomalous multi-gram Au in subcrop and in drillcore in Happy Creek, and the porphyry-style veining discovered in the Keirsten Zone deserve follow-up exploration.

The results of trenching at Tinta were similarly successful in finding perceived extensions to mineralization immediately adjacent and along strike of the known resource. Further trenching across the trend to extend this new area is warranted and, if favourable results are obtained, drill tested where warranted. Trenching of new geochemical anomalies generated by results of the new soil geochemistry is also warranted.

12 – REFERENCES

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13 – STATEMENT OF EXPENDITURES

Revenue and Nucleus Property

PROFESSIONAL FEES AND WAGES:		
Professional Fees	261,779.85	
Salaries	196,849.40	
Wages	450,997.96	909,627.21
EQUIPMENT RENTALS:		
Camp	60,000.00	
Forkliift	14,200.00	
Fuel Tank	9,700.00	
Generator	19,200.00	
Satellite Phone	636.00	
Storage	23,472.85	
Terraspectrometer	4,000.00	
Tools	900.00	
Truck	26,360.41	
Water Pump	1,068.35	159,537.61
EXPENSES:		
Administration	855.00	
Airfare	9,903.10	
Assaying and Geochemistry	201,246.80	
Automotive Fuel	17,527.72	
Bulk Fuel	91,397.22	
Camp Food	64,547.71	
Coreboxes and sample bags	54,756.43	
Coreracks	16,663.00	
Coresaw blades	18,502.51	
Demobilization	1,275.00	
Drilling	1,559,545.21	
Expediting	49,640.63	
Geophysical Equipment	185.00	
Helicopter	5,358.00	

Insurance	20,301.23	
Maintenance	28,328.14	
Materials and Supplies	35,359.03	
Mobilization	84,970.77	
Phone	400.00	
Printing	113.51	
Promotional	2,472.52	
Road Maintenance	2,552.98	
Satellite Services	33,896.50	
Shipping	384.44	
Software	1,878.92	
Travel and Accommodation	61,257.01	
Vehicle Insurance	4,677.00	2,367,995.38
TOTAL:		3,437,160.20

Tinta Property

PROFESSIONAL FEES AND WAGES:		
Professional Fees	111,084.15	
Wages	3,824.50	114,908.65
EQUIPMENT RENTALS		
Camp	6,150.00	
Satellite Phone	30.00	
Storage	2,640.00	
Truck	1,295.00	10,115.00
EXPENSES:		
Assaying and Geochemistry	24,677.99	
Excavating	11,390.00	
Helicopter	2,584.00	
Travel and Accommodation	13,396.40	52,048.39
TOTAL:		177,072.04

14 – DATE AND SIGNATURE PAGE

I, *Jesse R. Halle*, hereby certify that:

1. I am a graduate of the University of Toronto with an Honors B.Sc. (Env. Sci.) in 1996 and of Lakehead University with an Honors B.Sc. (Geology) in 2002, and have been a member of the Association of Professional Engineers and Geoscientists of BC ("APEGBC") since 2010.

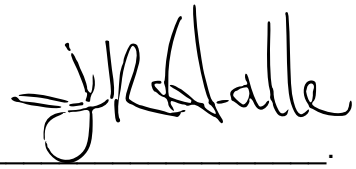
2. I am the part owner and operator of Halle Geological Services (2008) with a head office at Unit 3 – 1345 Dresden Row, Halifax, NS, B3J 2J9. HGS is a limited company which has been registered with the Association of Professional Geoscientists of Nova Scotia since 2012.

3. I have worked in chosen field in 7 provinces or territories in Canada and in the Alaska as a geologist from 1996 to the present, spanning employment in the public domain to numerous junior, intermediate, and major mining companies. The majority of my mineral exploration career has been carried out in the western cordillera of Canada.

4. I am not aware of any material fact or material change, the omission of which would make the property report misleading.

Respectfully submitted:

Dated at Whitehorse, Yukon, this 25th Day of August 2018



_____.
Jesse R. Halle

APPENDIX A - TINTA TILL AND TRENCH SAMPLE LOCATIONS AND DESCRIPTIONS

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL050 01+50N	FGL050	01+50N	394003	6909173	organic ash
FGL050 02+00N	FGL050	02+00N	394034	6909210	ash organic
FGL050 02+50N	FGL050	02+50N	394063	6909256	rocky rocky
FGL050 03+00N	FGL050	03+00N	394088	6909298	ash rocky
FGL050 03+50N	FGL050	03+50N	394122	6909339	organic ash
FGL050 04+00N	FGL050	04+00N	394145	6909381	organic rocky
FGL050 04+50N	FGL050	04+50N	394174	6909425	rocky
FGL050 06+00N	FGL050	06+00N	394263	6909547	organic ash
FGL050 06+50N	FGL050	06+50N	394290	6909586	organic permafrost
FGL050 07+00N	FGL050	07+00N	394319	6909628	organic organic
FGL050 07+50N	FGL050	07+50N	394349	6909669	organic organic
FGL050 08+00N	FGL050	08+00N	394375	6909707	rocky
FGL051 00+00N	FGL051	00+00N	394031	6908977	line start rocky
FGL051 00+50N	FGL051	00+50N	394074	6909023	rocky
FGL051 01+00N	FGL051	01+00N	394102	6909063	
FGL051 02+50N	FGL051	02+50N	394188	6909182	mixed B/C horizon, rocky
FGL051 04+00N	FGL051	04+00N	394273	6909303	mixed B/C horizon, organic
FGL051 04+50N	FGL051	04+50N	394306	6909341	mixed B/C horizon, rocky
FGL051 05+00N	FGL051	05+00N	394334	6909387	sandy crossed creek
FGL051 05+50N	FGL051	05+50N	394364	6909428	rocky sandy
FGL051 06+00N	FGL051	06+00N	394392	6909466	rocky organic
FGL051 06+50N	FGL051	06+50N	394422	6909508	rocky
FGL051 07+00N	FGL051	07+00N	394453	6909551	rocky
FGL051 07+50N	FGL051	07+50N	394481	6909593	
FGL051 08+00N	FGL051	08+00N	394509	6909630	line end,
FGL052 00+00	FGL052	00+00	394626	6909551	line start rocky
FGL052 00+50S	FGL052	00+50S	394605	6909496	
FGL052 01+00S	FGL052	01+00S	394573	6909462	rocky
FGL052 01+50S	FGL052	01+50S	394543	6909421	rocky
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FGL052 04+00S	FGL052	04+00S	394402	6909226	rocky
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FGL054 06+50N	FGL054	06+50N	394789	6909249	permafrost

SAMPLE ID	Line	Station	Easting	Northing	Description
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FGL054 07+50N	FGL054	07+50N	394847	6909334	permafrost
FGL054 08+00N	FGL054	08+00N	394875	6909374	permafrost line end
FGL055 00+00N	FGL055	00+00N	394551	6908653	line start rocky
FGL055 00+25N	FGL055	00+25N	394564	6908677	rocky
FGL055 00+50N	FGL055	00+50N	394578	6908695	rocky
FGL055 00+75N	FGL055	00+75N	394595	6908719	
FGL055 01+00N	FGL055	01+00N	394607	6908742	rocky
FGL055 01+25N	FGL055	01+25N	394622	6908759	rocky
FGL055 01+50N	FGL055	01+50N	394634	6908781	rocky
FGL055 01+75N	FGL055	01+75N	394650	6908801	rocky
FGL055 02+00N	FGL055	02+00N	394669	6908818	rocky
FGL055 02+25N	FGL055	02+25N	394679	6908838	rocky
FGL055 02+75N	FGL055	02+75N	394711	6908883	rocky
FGL055 03+25N	FGL055	03+25N	394740	6908923	rocky organic
FGL055 03+50N	FGL055	03+50N	394754	6908938	rocky
FGL055 03+75N	FGL055	03+75N	394770	6908961	mixed B/C horizon, rocky
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FGL055 05+50N	FGL055	05+50N	394870	6909106	
FGL055 05+75N	FGL055	05+75N	394883	6909132	mixed B/C horizon, rocky
FGL055 06+00N	FGL055	06+00N	394896	6909152	mixed B/C horizon, organic
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FGL056 00+50N	FGL056	00+50N	394663	6908644	
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FGL056 01+50N	FGL056	01+50N	394722	6908721	rocky
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FGL056 20+00N	FGL056	020+00N	394796	6908825	
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FGL056 03+00N	FGL056	03+00N	394808	6908844	rocky
FGL056 03+50N	FGL056	03+50N	394840	6908886	
FGL056 03+75N	FGL056	03+75N	394854	6908908	
FGL056 04+25N	FGL056	04+25N	394881	6908947	permafrost
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FGL056 05+50N	FGL056	05+50N	394949	6909049	permafrost
FGL056 05+75N	FGL056	05+75N	394969	6909071	permafrost
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FGL056 06+25N	FGL056	06+25N	394994	6909116	
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FGL056 07+50N	FGL056	07+50N	395072	6909220	
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FGL057 00+00N	FGL057	00+00N	394716	6908545	organic rocky
FGL057 00+25N	FGL057	00+25N	394733	6908566	rocky organic
FGL057 00+50N	FGL057	00+50N	394747	6908588	rocky
FGL057 00+75N	FGL057	00+75N	394762	6908608	rocky organic
FGL057 01+00N	FGL057	01+00N	394778	6908627	rocky organic
FGL057 01+25N	FGL057	01+25N	394793	6908649	ash rocky
FGL057 01+50N	FGL057	01+50N	394806	6908669	rocky

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL057 01+75N	FGL057	01+75N	394821	6908688	rocky
FGL057 02+00N	FGL057	02+00N	394834	6908708	rocky ash
FGL057 02+25N	FGL057	02+25N	394847	6908729	rocky
FGL057 02+50N	FGL057	02+50N	394862	6908751	organic rocky
FGL057 02+75N	FGL057	02+75N	394878	6908769	rocky
FGL057 03+00N	FGL057	03+00N	394888	6908791	rocky
FGL057 03+50N	FGL057	03+50N	394921	6908835	rocky organic
FGL057 03+75N	FGL057	03+75N	394937	6908853	rocky organic
FGL057 04+25N	FGL057	04+25N	394965	6908893	organic ash
FGL057 04+75N	FGL057	04+75N	394994	6908934	organic rocky
FGL057 05+00N	FGL057	05+00N	395009	6908951	organic permafrost
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FGL057 06+50N	FGL057	06+50N	395096	6909075	rocky
FGL057 06+75N	FGL057	06+75N	395112	6909093	rocky
FGL057 07+25N	FGL057	07+25N	395143	6909138	rocky
FGL057 07+50N	FGL057	07+50N	395154	6909159	organic ash
FGL057 07+75N	FGL057	07+75N	395171	6909180	rocky organic
FGL058 00+50N	FGL058	00+50N	395231	6909090	
FGL058 01+00N	FGL058	01+00N	395262	6909137	
FGL058 01+50N	FGL058	01+50N	395288	6909173	
FGL058 02+50N	FGL058	02+50N	395343	6909256	permafrost
FGL058 03+50N	FGL058	03+50N	395401	6909338	permafrost
FGL058 04+00N	FGL058	04+00N	395432	6909378	line end, permafrost
FGL059 00+00	FGL059	00+00	395554	6909292	line start root hole
FGL059 00+50S	FGL059	00+50S	395523	6909248	permafrost
FGL059 01+50S	FGL059	01+50S	395466	6909168	permafrost
FGL059 02+00S	FGL059	02+00S	395438	6909120	permafrost
FGL059 02+50S	FGL059	02+50S	395406	6909081	permafrost
FGL059 03+00S	FGL059	03+00S	395379	6909042	permafrost
FGL059 03+50S	FGL059	03+50S	395350	6909004	rocky
FGL060 00+50N	FGL060	00+50N	395563	6909038	ash organic
FGL060 01+50N	FGL060	01+50N	395621	6909121	ash organic
FGL060 02+00N	FGL060	02+00N	395649	6909166	organic ash
FGL060 02+50N	FGL060	02+50N	395677	6909208	organic rocky
FGL061 00+00	FGL061	00+00	395797	6909118	organic rocky
FGL061 05+50S	FGL061	05+50S	395656	6908917	organic rocky
FGL061 01+00S	FGL061	01+00S	395737	6909034	organic ash
FGL061 02+00S	FGL061	02+00S	395680	6908958	rocky
FGL061 02+50S	FGL061	02+50S	395656	6908917	organic rocky
FGL062 00+00	FGL062	00+00	395773	6908828	rocky
FGL062 00+50N	FGL062	00+50N	395806	6908872	rocky organic
FGL062 01+00N	FGL062	01+00N	395832	6908915	rocky
FGL062 01+50N	FGL062	01+50N	395866	6908957	organic rocky
FGL062 02+00N	FGL062	02+00N	395896	6908996	rocky organic
FGL062 02+50N	FGL062	02+50N	395921	6909040	organic rocky
FGL063 00+00	FGL063	00+00	395921	6909040	organic rocky
FGL063 00+50S	FGL063	00+50S	396014	6908906	rocky
FGL063 01+00S	FGL063	01+00S	395986	6908862	rocky organic
FGL063 02+00S	FGL063	02+00S	395925	6908778	rocky
FGL063 02+50S	FGL063	02+50S	395925	6908778	rocky
FGL064 00+00	FGL064	00+00	396014	6908648	line start
FGL064 00+50N	FGL064	00+50N	396047	6908696	
FGL064 01+00N	FGL064	01+00N	396078	6908735	
FGL064 01+50N	FGL064	01+50N	396107	6908778	rocky
FGL064 02+00N	FGL064	02+00N	396133	6908817	rocky
FGL064 02+50N	FGL064	02+50N	396162	6908856	rocky
FGL064 04+00N	FGL064	04+00N	396249	6908982	mixed B/C horizon, rocky
FGL064 05+50N	FGL064	05+50N	396334	6909103	mixed B/C horizon
FGL064 06+50N	FGL064	06+50N	396392	6909188	mixed B/C horizon
FGL064 07+50N	FGL064	07+50N	396454	6909268	mixed B/C horizon, rocky
FGL064 08+00N	FGL064	08+00N	396483	6909311	mixed B/C horizon, rocky

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL064 08+50N	FGL064	08+50N	396508	6909350	line end, mixed B/C horizon
FGL065 00+00N	FGL065	00+00N	396508	6909350	line end, mixed B/C horizon
FGL065 00+50N	FGL065	00+50N	396344	6908850	rocky
FGL065 01+00N	FGL065	01+00N	396374	6908897	rocky
FGL065 01+50N	FGL065	01+50N	396407	6908935	rocky swampy
FGL066 04+50N	FGL066	04+50N	396407	6908935	rocky swampy
FGL066 05+00S	FGL066	05+00S	396461	6908754	rocky
FGL066 05+50S	FGL066	05+50S	396428	6908708	rocky
FGL067 00+00S	FGL067	00+00S	396178	6908361	line start rocky
FGL067 00+50S	FGL067	00+50S	396146	6908315	rocky
FGL067 01+0S	FGL067	01+0S	396112	6908276	rocky
FGL067 01+50S	FGL067	01+50S	396095	6908235	mixed B/C horizon, rocky
FGL067 02+00S	FGL067	02+00S	396066	6908201	crossed creek, mixed B/C horizon
FGL067 02+50S	FGL067	02+50S	396036	6908154	mixed B/C horizon
FGL067 03+00S	FGL067	03+00S	396007	6908115	below road
FGL067 03+50S	FGL067	03+50S	395976	6908071	
FGL067 04+00S	FGL067	04+00S	395948	6908034	
FGL067 04+50S	FGL067	04+50S	395921	6907991	rocky
FGL067 05+00S	FGL067	05+00S	395889	6907947	
FGL067 05+50S	FGL067	05+50S	395860	6907906	
FGL067 06+00S	FGL067	06+00S	395830	6907863	
FGL067 06+50S	FGL067	06+50S	395806	6907822	
FGL067 07+00S	FGL067	07+00S	395773	6907783	
FGL067 07+50S	FGL067	07+50S	395749	6907739	line end
FGL068 00+50N	FGL068	00+50N	396236	6908119	organic rocky
FGL068 04+00N	FGL068	04+00N	396445	6908432	rocky organic
FGL068 04+50N	FGL068	04+50N	396445	6908430	rocky
FGL068 05+00N	FGL068	05+00N	396470	6908471	ash rocky
FGL068 05+50N	FGL068	05+50N	396496	6908511	organic
FGL068 06+00N	FGL068	06+00N	396526	6908555	organic ash
FGL068 06+50N	FGL068	06+50N	396552	6908596	organic ash
FGL068 07+00N	FGL068	07+00N	396579	6908639	ash organic
FGL068 07+50N	FGL068	07+50N	396605	6908679	organic
FGL068 08+00N	FGL068	08+00N	396633	6908720	ash organic
FGL068 11+00N	FGL068	11+00N	396801	6908973	organic rocky
FGL068 01+00S	FGL068	01+00S	396119	6907974	rocky
FGL068 01+50S	FGL068	01+50S	396097	6907928	rocky
FGL068 02+00S	FGL068	02+00S	396060	6907890	
FGL068 02+50S	FGL068	02+50S	396029	6907850	rocky
FGL068 03+00S	FGL068	03+00S	396003	6907809	swampy
FGL068 03+50S	FGL068	03+50S	395970	6907774	rocky
FGL068 04+00S	FGL068	04+00S	395936	6907738	swampy
FGL068 04+50S	FGL068	04+50S	395900	6907698	swampy
FGL069 00+00	FGL069	00+00	395993	6907574	below road
FGL069 00+50N	FGL069	00+50N	396017	6907608	below road
FGL069 01+00N	FGL069	01+00N	396048	6907650	organic swampy
FGL069 01+50N	FGL069	01+50N	396071	6907701	organic swampy
FGL069 02+00N	FGL069	02+00N	396109	6907736	organic
FGL069 02+50N	FGL069	02+50N	396132	6907774	
FGL069 03+00N	FGL069	03+00N	396163	6907821	below road
FGL069 03+50N	FGL069	03+50N	396185	6907860	above road
FGL069 04+00N	FGL069	04+00N	396223	6907900	rocky organic
FGL069 05+00N	FGL069	05+00N	396283	6907981	rocky
FGL069 05+50N	FGL069	05+50N	396310	6908017	rocky
FGL069 06+50N	FGL069	06+50N	396366	6908101	swampy
FGL069 07+50N	FGL069	07+50N	396421	6908184	swampy
FGL069 08+00N	FGL069	08+00N	396449	6908222	rocky
FGL069 08+50N	FGL069	08+50N	396481	6908261	swampy
FGL069 10+50N	FGL069	10+50N	396481	6908261	swampy
FGL069 11+00N	FGL069	11+00N	396481	6908261	swampy
FGL069 11+50N	FGL069	11+50N	396481	6908261	swampy
FGL069 12+00N	FGL069	12+00N	396481	6908261	swampy
FGL069 12+50N	FGL069	12+50N	396481	6908261	swampy
FGL069 13+00N	FGL069	13+00N	396481	6908261	swampy

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL069 16+00N	FGL069	16+00N	396481	6908261	swampy
FGL069 16+50N	FGL069	16+50N	396481	6908261	swampy
FGL070 00+00	FGL070	00+00	395767	6906996	ash organic
FGL070 00+50N	FGL070	00+50N	395801	6907036	rocky ash
FGL070 01+00N	FGL070	01+00N	395826	6907077	organic ash
FGL070 01+50N	FGL070	01+50N	395854	6907122	organic
FGL070 04+50N	FGL070	04+50N	396058	6907405	clay, organic
FGL070 05+50N	FGL070	05+50N	396109	6907482	organic rocky
FGL070 06+00N	FGL070	06+00N	396139	6907520	ash organic
FGL070 07+00N	FGL070	07+00N	396191	6907599	organic rocky
FGL070 07+50N	FGL070	07+50N	396224	6907641	rocky organic
FGL070 08+00N	FGL070	08+00N	396253	6907693	ash organic
FGL070 09+00N	FGL070	09+00N	396312	6907767	ash organic
FGL070 09+50N	FGL070	09+50N	396338	6907815	rocky organic
FGL070 10+50N	FGL070	10+50N	396398	6907895	rocky
FGL070 11+00N	FGL070	11+00N	396430	6907930	rocky ash
FGL070 11+50N	FGL070	11+50N	396453	6907973	ash rocky
FGL070 12+00N	FGL070	12+00N	396486	6908012	ash rocky
FGL070 13+50N	FGL070	13+50N	396573	6908136	ash organic
FGL070 14+50N	FGL070	14+50N	396631	6908217	organic
FGL070 15+50N	FGL070	15+50N	396687	6908301	organic ash
FGL070 16+00N	FGL070	16+00N	396716	6908340	rocky organic
FGL070 16+50N	FGL070	16+50N	396745	6908376	ash organic
FGL070 17+00N	FGL070	17+00N	396774	6908418	ash organic
FGL070 18+00N	FGL070	18+00N	396834	6908508	ash organic
FGL070 18+50N	FGL070	18+50N	396861	6908545	ash organic
FGL070 19+50N	FGL070	19+50N	396920	6908628	clay, organic
FGL070 20+00N	FGL070	20+00N	396948	6908665	ash clay
FGL070 20+50N	FGL070	20+50N	396977	6908707	organic clay
FGL070 21+00N	FGL070	21+00N	397008	6908751	ash organic
FGL070 22+00N	FGL070	22+00N	397061	6908834	ash organic
FGL070 22+50N	FGL070	22+50N	397094	6908873	organic rocky
FGL070 23+00N	FGL070	23+00N	397094	6908873	organic rocky
FGL071 01+00S	FGL071	01+00S	397162	6908744	rocky
FGL071 01+50S	FGL071	01+50S	397139	6908701	
FGL071 02+00S	FGL071	02+00S	397107	6908663	rocky
FGL071 02+50S	FGL071	02+50S	397082	6908627	rocky
FGL071 03+00S	FGL071	03+00S	397053	6908578	rocky
FGL071 03+50S	FGL071	03+50S	397019	6908548	rocky
FGL071 04+00S	FGL071	04+00S	396991	6908494	swampy
FGL071 04+50S	FGL071	04+50S	396962	6908453	
FGL071 05+00S	FGL071	05+00S	396933	6908414	
FGL071 05+50S	FGL071	05+50S	396899	6908354	
FGL071 06+00S	FGL071	06+00S	396872	6908313	
FGL071 06+50S	FGL071	06+50S	396838	6908277	
FGL071 07+00S	FGL071	07+00S	396808	6908230	
FGL071 08+00S	FGL071	08+00S	396724	6908104	organic
FGL071 08+50S	FGL071	08+50S	396690	6908056	rocky
FGL071 09+00S	FGL071	09+00S	396659	6908006	above road, rocky
FGL071 09+50S	FGL071	09+50S	396641	6907977	organic rocky
FGL071 10+00S	FGL071	10+00S	396614	6907949	rocky
FGL071 10+50S	FGL071	10+50S	396579	6907898	above road
FGL071 11+50S	FGL071	11+50S	396533	6907829	
FGL071 12+00S	FGL071	12+00S	396511	6907788	above road
FGL071 12+50S	FGL071	12+50S	396476	6907753	
FGL071 13+00S	FGL071	13+00S	396446	6907707	
FGL071 13+50S	FGL071	13+50S	396413	6907660	below road
FGL071 14+00S	FGL071	14+00S	396381	6907632	swampy
FGL071 14+50S	FGL071	14+50S	396357	6907584	
FGL071 15+00S	FGL071	15+00S	396325	6907541	swampy
FGL071 15+50S	FGL071	15+50S	396304	6907497	
FGL071 16+00S	FGL071	16+00S	396277	6907454	swampy
FGL071 16+50S	FGL071	16+50S	396241	6907413	
FGL071 17+00S	FGL071	17+00S	396214	6907366	swampy

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL071 20+00S	FGL071	20+00S	396034	6907121	organic
FGL071 20+50S	FGL071	20+50S	396014	6907076	rocky
FGL071 21+00S	FGL071	21+00S	395985	6907039	rocky
FGL071 21+50S	FGL071	21+50S	395952	6907005	rocky
FGL071 22+00S	FGL071	22+00S	395952	6907005	rocky
FGL071 22+50S	FGL071	22+50S	395898	6906922	rocky
FGL072 00+00	FGL072	00+00	395898	6906922	rocky
FGL072 00+50N	FGL072	00+50N	396561	6907581	
FGL072 01+00N	FGL072	01+00N	396593	6907615	
FGL072 01+50N	FGL072	01+50N	396635	6907661	
FGL072 03+00N	FGL072	03+00N	396727	6907765	
FGL072 03+50N	FGL072	03+50N	396760	6907805	
FGL072 04+00N	FGL072	04+00N	396795	6907846	rocky
FGL072 04+50N	FGL072	04+50N	396826	6907881	
FGL072 05+00N	FGL072	05+00N	396855	6907921	rocky
FGL072 05+50N	FGL072	05+50N	396882	6907981	rocky
FGL072 06+00N	FGL072	06+00N	396909	6908025	rocky
FGL072 06+50N	FGL072	06+50N	396933	6908070	rocky
FGL072 07+00N	FGL072	07+00N	396960	6908108	rocky
FGL072 07+50N	FGL072	07+50N	396982	6908150	
FGL072 08+00N	FGL072	08+00N	397012	6908196	rocky
FGL072 08+50N	FGL072	08+50N	397039	6908242	
FGL072 09+00N	FGL072	09+00N	397066	6908283	
FGL072 09+50N	FGL072	09+50N	397094	6908323	rocky
FGL072 10+00N	FGL072	10+00N	397124	6908372	
FGL072 10+50N	FGL072	10+50N	397145	6908403	
FGL072 11+00N	FGL072	11+00N	397173	6908446	rocky
FGL072 11+50N	FGL072	11+50N	397201	6908485	
FGL072 12+00N	FGL072	12+00N	397231	6908530	
FGL072 12+50N	FGL072	12+50N	397231	6908530	
FGL072 13+50N	FGL072	13+50N	397231	6908530	
FGL072 14+00N	FGL072	14+00N	397341	6908699	
FGL072 14+50N	FGL072	14+50N	397380	6908739	rocky
FGL072 00+50S	FGL072	00+50S	396495	6907516	organic rocky
FGL072 01+50S	FGL072	01+50S	396441	6907429	sandy ash
FGL072 02+00S	FGL072	02+00S	396412	6907385	ash organic
FGL072 02+50S	FGL072	02+50S	396382	6907343	organic
FGL072 04+00S	FGL072	04+00S	396292	6907226	rocky
FGL072 04+50S	FGL072	04+50S	396269	6907180	rocky organic
FGL072 05+00S	FGL072	05+00S	396239	6907140	organic rocky
FGL072 05+50S	FGL072	05+50S	396209	6907099	rocky
FGL072 06+00S	FGL072	06+00S	396180	6907057	ash organic
FGL072 06+50S	FGL072	06+50S	396152	6907016	clay, organic
FGL072 07+00S	FGL072	07+00S	396124	6906972	ash organic
FGL072 07+50S	FGL072	07+50S	396089	6906931	ash organic
FGL072 08+00S	FGL072	08+00S	396062	6906891	organic
FGL072 08+50S	FGL072	08+50S	396037	6906851	ash organic
FGL073 00+00	FGL073	00+00	396156	6906761	rocky
FGL073 00+50N	FGL073	00+50N	396184	6906804	ash rocky
FGL073 01+00N	FGL073	01+00N	396215	6906844	rocky ash
FGL073 01+50N	FGL073	01+50N	396245	6906885	ash rocky
FGL073 02+00N	FGL073	02+00N	396270	6906923	ash rocky
FGL073 02+50N	FGL073	02+50N	396306	6906971	ash rocky
FGL073 03+50N	FGL073	03+50N	396358	6907049	ash rocky
FGL073 04+00N	FGL073	04+00N	396387	6907086	ash rocky
FGL073 04+50N	FGL073	04+50N	396416	6907128	organic rocky
FGL073 06+50N	FGL073	06+50N	396528	6907296	clay, organic
FGL073 7+50N	FGL073	7+50N	397488	6908645	organic rocky
FGL073 08+50N	FGL073	08+50N	396647	6907464	organic rocky
FGL073 09+00N	FGL073	09+00N	396673	6907498	organic rocky
FGL073 09+50N	FGL073	09+50N	396711	6907545	rocky below road
FGL073 10+00N	FGL073	10+00N	396731	6907583	organic
FGL073 10+50N	FGL073	10+50N	396773	6907631	above road, rocky
FGL073 11+00N	FGL073	11+00N	396785	6907669	ash organic

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL073 11+50N	FGL073	11+50N	396813	6907704	ash organic
FGL073 12+00N	FGL073	12+00N	396846	6907747	organic rocky
FGL073 12+50N	FGL073	12+50N	396875	6907790	organic rocky
FGL073 13+00N	FGL073	13+00N	396904	6907823	organic rocky
FGL073 13+50N	FGL073	13+50N	396934	6907871	rocky organic
FGL073 14+00N	FGL073	14+00N	396959	6907910	organic
FGL073 14+50N	FGL073	14+50N	396991	6907950	ash rocky
FGL073 15+00N	FGL073	15+00N	397018	6907990	ash clay
FGL073 15+50N	FGL073	15+50N	397048	6908033	organic
FGL073 16+00N	FGL073	16+00N	397081	6908073	rocky
FGL073 16+50N	FGL073	16+50N	397109	6908116	ash organic
FGL073 17+50N	FGL073	17+50N	397161	6908195	ash organic
FGL073 18+00N	FGL073	18+00N	397197	6908240	ash
FGL073 18+50N	FGL073	18+50N	397224	6908281	ash organic
FGL073 19+00N	FGL073	19+00N	397252	6908323	ash organic
FGL073 19+50N	FGL073	19+50N	397282	6908362	ash organic
FGL073 20+00N	FGL073	20+00N	397308	6908408	organic rocky
FGL073 20+50N	FGL073	20+50N	397339	6908443	ash organic
FGL073 21+00N	FGL073	21+00N	397368	6908484	rocky organic
FGL073 21+50N	FGL073	21+50N	397397	6908524	rocky sandy
FGL073 22+00N	FGL073	22+00N	397428	6908565	ash rocky
FGL073 22+50N	FGL073	22+50N	397455	6908606	organic
FGL073 23+00N	FGL073	23+00N	397488	6908645	organic rocky
FGL074 00+50N	FGL074	00+50N	396313	6906730	
FGL074 01+00N	FGL074	01+00N	396344	6906767	
FGL074 01+50N	FGL074	01+50N	396374	6906812	
FGL074 02+00N	FGL074	02+00N	396399	6906853	
FGL074 02+50N	FGL074	02+50N	396432	6906893	
FGL074 03+00N	FGL074	03+00N	396469	6906945	10m past, above road
FGL074 03+50N	FGL074	03+50N	396484	6906973	
FGL074 04+00N	FGL074	04+00N	396517	6907012	
FGL074 07+00N	FGL074	07+00N	396687	6907264	
FGL074 08+00N	FGL074	08+00N	396687	6907264	
FGL074 08+50N	FGL074	08+50N	396687	6907264	
FGL074 09+00N	FGL074	09+00N	396809	6907422	
FGL074 09+50N	FGL074	09+50N	396833	6907469	
FGL074 10+00N	FGL074	10+00N	396863	6907505	
FGL074 10+50N	FGL074	10+50N	396893	6907545	
FGL074 11+00N	FGL074	11+00N	396921	6907595	
FGL074 11+50N	FGL074	11+50N	396949	6907631	
FGL074 12+00N	FGL074	12+00N	396982	6907665	
FGL074 12+50N	FGL074	12+50N	397005	6907712	
FGL074 13+00N	FGL074	13+00N	397038	6907757	
FGL074 13+50N	FGL074	13+50N	397067	6907799	
FGL074 14+00N	FGL074	14+00N	397101	6907841	
FGL074 14+50N	FGL074	14+50N	397131	6907876	
FGL074 15+00N	FGL074	15+00N	397156	6907918	
FGL074 15+50N	FGL074	15+50N	397186	6907962	
FGL074 16+00N	FGL074	16+00N	397214	6908002	
FGL074 17+00N	FGL074	17+00N	397275	6908086	
FGL074 17+50N	FGL074	17+50N	397298	6908123	
FGL074 18+00N	FGL074	18+00N	397329	6908167	
FGL074 18+50N	FGL074	18+50N	397353	6908201	
FGL074 19+00N	FGL074	19+00N	397392	6908243	
FGL074 19+50N	FGL074	19+50N	397415	6908292	
FGL074 20+00N	FGL074	20+00N	397441	6908327	
FGL074 20+50N	FGL074	20+50N	397472	6908367	
FGL074 21+00N	FGL074	21+00N	397500	6908405	
FGL074 21+50N	FGL074	21+50N	397527	6908452	
FGL074 22+00N	FGL074	22+00N	397556	6908490	
FGL074 22+50N	FGL074	22+50N	397583	6908527	
FGL075 00+00	FGL075	00+00	396379	6906618	line start
FGL075 00+50N	FGL075	00+50N	396410	6906659	organic
FGL075 01+00N	FGL075	01+00N	396438	6906703	

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL075 01+50N	FGL075	01+50N	396468	6906744	rocky
FGL075 02+00N	FGL075	02+00N	396499	6906782	clay,
FGL075 02+50N	FGL075	02+50N	396524	6906817	below road
FGL075 03+00N	FGL075	03+00N	396560	6906857	rocky
FGL075 03+50N	FGL075	03+50N	396589	6906898	rocky organic
FGL075 04+00N	FGL075	04+00N	396617	6906940	talus, rocky
FGL075 05+00N	FGL075	05+00N	396677	6907021	organic rocky
FGL075 05+50N	FGL075	05+50N	396707	6907057	
FGL075 06+00N	FGL075	06+00N	396734	6907098	organic rocky
FGL075 06+50N	FGL075	06+50N	396764	6907141	organic rocky
FGL075 07+00N	FGL075	07+00N	396793	6907181	crossed creek
FGL075 07+50N	FGL075	07+50N	396821	6907222	organic crossed creek
FGL075 08+00N	FGL075	08+00N	396854	6907266	rocky
FGL075 08+50N	FGL075	08+50N	396881	6907304	
FGL075 09+00N	FGL075	09+00N	396926	6907336	
FGL075 09+50N	FGL075	09+50N	396973	6907425	
FGL075 10+00N	FGL075	10+00N	396962	6907390	
FGL075 10+50N	FGL075	10+50N	396999	6907471	5m past, rocky
FGL075 11+00N	FGL075	11+00N	397027	6907504	
FGL075 11+50N	FGL075	11+50N	397060	6907553	rocky
FGL075 12+00N	FGL075	12+00N	397088	6907593	
FGL075 12+50N	FGL075	12+50N	397123	6907631	organic
FGL075 13+00N	FGL075	13+00N	397147	6907676	
FGL075 13+50N	FGL075	13+50N	397179	6907712	
FGL075 14+00N	FGL075	14+00N	397208	6907754	
FGL075 14+50N	FGL075	14+50N	397236	6907791	
FGL075 15+00N	FGL075	15+00N	397266	6907827	organic
FGL075 15+50N	FGL075	15+50N	397296	6907871	organic
FGL075 16+00N	FGL075	16+00N	397324	6907910	organic swampy
FGL075 16+50N	FGL075	16+50N	397355	6907951	organic
FGL075 17+00N	FGL075	17+00N	397383	6907994	
FGL075 17+50N	FGL075	17+50N	397413	6908037	
FGL075 18+00N	FGL075	18+00N	397444	6908077	
FGL075 18+50N	FGL075	18+50N	397474	6908116	
FGL075 19+00N	FGL075	19+00N	397499	6908155	
FGL075 19+50N	FGL075	19+50N	397530	6908196	
FGL075 20+00N	FGL075	20+00N	397561	6908241	rocky
FGL075 20+50N	FGL075	20+50N	397591	6908280	root hole
FGL075 21+00N	FGL075	21+00N	397623	6908321	
FGL075 21+50N	FGL075	21+50N	397651	6908360	rocky
FGL075 22+00N	FGL075	22+00N	397682	6908399	organic rocky
FGL075 22+50N	FGL075	22+50N	397710	6908440	organic
FGL075 23+00N	FGL075	23+00N	397740	6908478	line end, rocky
FGL076 00+00	FGL076	00+00	396548	6906533	sandy
FGL076 00+50N	FGL076	00+50N	396578	6906573	rocky
FGL076 01+00N	FGL076	01+00N	396604	6906623	rocky
FGL076 01+50N	FGL076	01+50N	396631	6906660	rocky organic
FGL076 02+00N	FGL076	02+00N	396665	6906702	rocky
FGL076 02+50N	FGL076	02+50N	396687	6906738	rocky
FGL076 03+00N	FGL076	03+00N	396727	6906785	ash rocky
FGL076 03+50N	FGL076	03+50N	396751	6906826	ash
FGL076 04+00N	FGL076	04+00N	396784	6906871	rocky
FGL076 04+50N	FGL076	04+50N	396811	6906911	
FGL076 05+50N	FGL076	05+50N	396873	6906995	rocky
FGL076 06+00N	FGL076	06+00N	396897	6907042	
FGL076 06+50N	FGL076	06+50N	396928	6907077	
FGL076 07+00N	FGL076	07+00N	396954	6907123	
FGL076 07+50N	FGL076	07+50N	396986	6907166	organic
FGL076 08+00N	FGL076	08+00N	397013	6907206	ash
FGL076 08+50N	FGL076	08+50N	397060	6907257	ash organic
FGL076 09+00N	FGL076	09+00N	397077	6907290	organic
FGL076 09+50N	FGL076	09+50N	397110	6907332	sandy
FGL076 10+00N	FGL076	10+00N	397110	6907332	sandy
FGL076 10+50N	FGL076	10+50N	397159	6907408	organic

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL076 11+00N	FGL076	11+00N	397200	6907455	organic
FGL076 12+00N	FGL076	12+00N	397256	6907539	ash
FGL076 12+50N	FGL076	12+50N	397278	6907576	ash sandy
FGL076 13+00N	FGL076	13+00N	397310	6907618	ash
FGL076 13+50N	FGL076	13+50N	397340	6907654	ash
FGL076 14+00N	FGL076	14+00N	397340	6907654	ash
FGL076 14+50N	FGL076	14+50N	397399	6907740	organic ash
FGL076 15+50N	FGL076	15+50N	397399	6907740	organic ash
FGL076 17+00N	FGL076	17+00N	397544	6907943	clay,
FGL076 17+50N	FGL076	17+50N	397572	6907984	clay, ash
FGL076 18+00N	FGL076	18+00N	397600	6908023	sandy
FGL076 18+50N	FGL076	18+50N	397628	6908066	ash sandy
FGL076 19+00N	FGL076	19+00N	397656	6908108	ash clay
FGL076 19+50N	FGL076	19+50N	397656	6908108	ash clay
FGL076 20+00N	FGL076	20+00N	397709	6908188	sandy clay
FGL076 20+50N	FGL076	20+50N	397745	6908230	sandy clay
FGL076 21+00N	FGL076	21+00N	397772	6908272	ash sandy
FGL076 21+50N	FGL076	21+50N	397797	6908311	organic sandy
FGL076 22+00N	FGL076	22+00N	397830	6908348	sandy
FGL076 22+50N	FGL076	22+50N	397855	6908393	organic sandy clay
FGL076 23+00N	FGL076	23+00N	397888	6908431	organic sandy
FGL077 00+00	FGL077	00+00	397985	6908311	organic
FGL077 00+50S	FGL077	00+50S	397955	6908271	ash
FGL077 01+00S	FGL077	01+00S	397930	6908230	organic sandy clay
FGL077 02+00S	FGL077	02+00S	397873	6908149	organic sandy
FGL077 02+50S	FGL077	02+50S	397841	6908104	sandy
FGL077 03+00S	FGL077	03+00S	397817	6908066	
FGL077 03+50S	FGL077	03+50S	397785	6908024	rocky
FGL077 04+00S	FGL077	04+00S	397757	6907985	sandy
FGL077 04+50S	FGL077	04+50S	397725	6907942	permafrost
FGL077 05+00S	FGL077	05+00S	397695	6907897	organic
FGL077 05+50S	FGL077	05+50S	397665	6907857	ash organic
FGL077 06+00S	FGL077	06+00S	397640	6907820	sandy organic
FGL077 06+50S	FGL077	06+50S	397611	6907782	ash rocky
FGL077 07+50S	FGL077	07+50S	397552	6907690	ash sandy
FGL077 08+00S	FGL077	08+00S	397525	6907655	ash
FGL077 08+50S	FGL077	08+50S	397494	6907613	ash organic
FGL077 09+00S	FGL077	09+00S	397464	6907570	ash organic
FGL077 09+50S	FGL077	09+50S	397439	6907528	ash
FGL077 10+00S	FGL077	10+00S	397409	6907491	organic
FGL077 10+50S	FGL077	10+50S	397381	6907451	rocky ash
FGL077 11+00S	FGL077	11+00S	397353	6907410	ash
FGL077 12+00S	FGL077	12+00S	397293	6907323	clay
FGL077 12+50S	FGL077	12+50S	397264	6907287	clay
FGL077 13+00S	FGL077	13+00S	397231	6907247	sandy
FGL077 13+50S	FGL077	13+50S	397205	6907205	sandy organic
FGL077 14+00S	FGL077	14+00S	397179	6907164	ash organic
FGL077 14+50S	FGL077	14+50S	397145	6907123	organic
FGL077 16+00S	FGL077	16+00S	397063	6906999	organic clay
FGL077 16+50S	FGL077	16+50S	397031	6906956	sandy organic
FGL077 17+00S	FGL077	17+00S	397005	6906917	organic ash
FGL077 17+50S	FGL077	17+50S	396976	6906876	rocky sandy
FGL077 18+00S	FGL077	18+00S	396949	6906833	
FGL077 18+50S	FGL077	18+50S	396919	6906795	ash sandy
FGL077 19+00S	FGL077	19+00S	396893	6906751	sandy ash
FGL077 19+50S	FGL077	19+50S	396859	6906712	ash
FGL077 20+00S	FGL077	20+00S	396833	6906669	ash rocky
FGL077 20+50S	FGL077	20+50S	396805	6906630	ash organic
FGL077 21+00S	FGL077	21+00S	396775	6906590	ash rocky
FGL077 21+50S	FGL077	21+50S	396744	6906547	ash rocky
FGL077 22+00S	FGL077	22+00S	396720	6906507	ash rocky
FGL077 22+50S	FGL077	22+50S	396688	6906469	ash rocky
FGL077 23+00S	FGL077	23+00S	396676	6906445	organic
FGL078 00+00	FGL078	00+00	396814	6906376	

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL078 00+50N	FGL078	00+50N	396824	6906422	
FGL078 01+00N	FGL078	01+00N	396860	6906459	
FGL078 01+50N	FGL078	01+50N	396884	6906500	swampy
FGL078 02+00N	FGL078	02+00N	396923	6906549	
FGL078 03+00N	FGL078	03+00N	396971	6906626	
FGL078 03+50N	FGL078	03+50N	396993	6906663	
FGL078 04+00N	FGL078	04+00N	397022	6906703	
FGL078 04+50N	FGL078	04+50N	397050	6906742	
FGL078 05+00N	FGL078	05+00N	397080	6906785	permafrost
FGL078 07+00N	FGL078	07+00N	397194	6906955	
FGL078 07+50N	FGL078	07+50N	397216	6906992	permafrost
FGL078 09+50N	FGL078	09+50N	397333	6907159	
FGL078 10+00N	FGL078	10+00N	397360	6907197	
FGL078 10+50N	FGL078	10+50N	397391	6907249	
FGL078 11+00N	FGL078	11+00N	397413	6907280	
FGL078 12+00N	FGL078	12+00N	397472	6907362	
FGL078 12+50N	FGL078	12+50N	397503	6907409	
FGL078 13+00N	FGL078	13+00N	397534	6907450	
FGL078 13+50N	FGL078	13+50N	397557	6907488	
FGL078 14+00N	FGL078	14+00N	397587	6907530	
FGL078 14+50N	FGL078	14+50N	397615	6907572	
FGL078 15+00N	FGL078	15+00N	397645	6907613	
FGL078 15+50N	FGL078	15+50N	397675	6907652	
FGL078 16+00N	FGL078	16+00N	397700	6907696	
FGL078 16+50N	FGL078	16+50N	397725	6907736	
FGL078 17+00N	FGL078	17+00N	397755	6907775	
FGL078 18+50N	FGL078	18+50N	397844	6907901	rocky
FGL078 19+00N	FGL078	19+00N	397872	6907947	
FGL078 19+50N	FGL078	19+50N	397901	6907978	
FGL078 20+00N	FGL078	20+00N	397929	6908027	
FGL078 20+50N	FGL078	20+50N	397959	6908067	
FGL078 21+00N	FGL078	21+00N	397983	6908107	
FGL078 21+50N	FGL078	21+50N	398014	6908154	
FGL078 22+00N	FGL078	22+00N	398046	6908194	
FGL078 22+50N	FGL078	22+50N	398069	6908233	
FGL078 23+00N	FGL078	23+00N	398096	6908277	line end
FGL079 00+00	FGL079	00+00	397118	6906557	line start above road
FGL079 00+50N	FGL079	00+50N	397144	6906595	mixed B/C horizon
FGL079 01+00N	FGL079	01+00N	397170	6906636	rocky
FGL079 01+50N	FGL079	01+50N	397201	6906675	rocky
FGL079 02+00N	FGL079	02+00N	397228	6906718	mixed B/C horizon
FGL079 02+50N	FGL079	02+50N	397260	6906762	organic
FGL079 03+00N	FGL079	03+00N	397288	6906801	
FGL079 03+50N	FGL079	03+50N	397318	6906839	
FGL079 04+00N	FGL079	04+00N	397346	6906880	
FGL079 04+50N	FGL079	04+50N	397379	6906924	organic
FGL079 05+00N	FGL079	05+00N	397406	6906962	organic
FGL079 05+50N	FGL079	05+50N	397434	6907008	organic
FGL079 06+00N	FGL079	06+00N	397462	6907045	mixed B/C horizon, swampy
FGL079 07+00N	FGL079	07+00N	397519	6907128	
FGL079 07+50N	FGL079	07+50N	397549	6907170	
FGL079 08+00N	FGL079	08+00N	397579	6907209	
FGL079 08+50N	FGL079	08+50N	397604	6907255	
FGL079 09+00N	FGL079	09+00N	397638	6907300	rocky
FGL079 09+50N	FGL079	09+50N	397659	6907333	rocky
FGL079 10+00N	FGL079	10+00N	397679	6907364	
FGL079 10+50N	FGL079	10+50N	397708	6907404	
FGL079 11+00N	FGL079	11+00N	397739	6907447	
FGL079 11+50N	FGL079	11+50N	397767	6907478	rocky
FGL079 12+00N	FGL079	12+00N	397795	6907520	rocky
FGL079 12+50N	FGL079	12+50N	397823	6907556	
FGL079 13+00N	FGL079	13+00N	397852	6907602	
FGL079 13+50N	FGL079	13+50N	397884	6907643	rocky
FGL079 14+00N	FGL079	14+00N	397910	6907681	

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL079 14+50N	FGL079	14+50N	397944	6907724	rocky
FGL079 15+00N	FGL079	15+00N	397966	6907767	rocky organic
FGL079 15+50N	FGL079	15+50N	397997	6907809	rocky
FGL079 16+00N	FGL079	16+00N	398026	6907849	rocky
FGL079 16+50N	FGL079	16+50N	398053	6907892	rocky
FGL079 17+00N	FGL079	17+00N	398084	6907926	rocky
FGL079 17+50N	FGL079	17+50N	398111	6907974	organic rocky
FGL079 18+00N	FGL079	18+00N	398141	6908013	
FGL079 18+50N	FGL079	18+50N	398171	6908057	rocky
FGL079 19+00N	FGL079	19+00N	398196	6908100	
FGL079 19+50N	FGL079	19+50N	398226	6908146	line end, crossed creek
FGL079 00+50S	FGL079	00+50S	397083	6906511	
FGL079 01+00S	FGL079	01+00S	397057	6906474	
FGL079 01+50S	FGL079	01+50S	397031	6906428	
FGL079 02+00S	FGL079	02+00S	396994	6906391	
FGL079 02+50S	FGL079	02+50S	396974	6906353	
FGL079 03+00S	FGL079	03+00S	396945	6906309	
FGL080 00+00S	FGL080	00+00S	398347	6908041	
FGL080 00+50S	FGL080	00+50S	398314	6908013	rocky
FGL080 01+00S	FGL080	01+00S	398285	6907972	
FGL080 01+50S	FGL080	01+50S	398254	6907938	
FGL080 02+00S	FGL080	02+00S	398222	6907885	
FGL080 02+50S	FGL080	02+50S	398196	6907852	
FGL080 03+00S	FGL080	03+00S	398172	6907819	
FGL080 03+50S	FGL080	03+50S	398146	6907779	organic
FGL080 04+00S	FGL080	04+00S	398118	6907736	
FGL080 04+50S	FGL080	04+50S	398085	6907696	rocky
FGL080 05+00S	FGL080	05+00S	398054	6907647	
FGL080 05+50S	FGL080	05+50S	398021	6907612	rocky
FGL080 06+00S	FGL080	06+00S	397992	6907559	
FGL080 06+50S	FGL080	06+50S	397971	6907520	
FGL080 07+00S	FGL080	07+00S	397971	6907520	
FGL080 07+50S	FGL080	07+50S	397914	6907451	
FGL080 08+00S	FGL080	08+00S	397885	6907412	
FGL080 08+50S	FGL080	08+50S	397834	6907358	
FGL080 09+00S	FGL080	09+00S	397814	6907318	
FGL080 09+50S	FGL080	09+50S	397794	6907271	
FGL080 10+00S	FGL080	10+00S	397760	6907232	
FGL080 11+00S	FGL080	11+00S	397701	6907150	
FGL080 11+50S	FGL080	11+50S	397686	6907120	
FGL080 12+00S	FGL080	12+00S	397658	6907080	
FGL080 18+00S	FGL080	18+00S	397310	6906584	
FGL080 18+50S	FGL080	18+50S	397289	6906552	
FGL080 19+00S	FGL080	19+00S	397253	6906509	
FGL080 19+50S	FGL080	19+50S	397223	6906472	
FGL080 20+00S	FGL080	20+00S	397193	6906418	
FGL080 20+50S	FGL080	20+50S	397173	6906378	
FGL080 21+00S	FGL080	21+00S	397134	6906340	swampy
FGL080 21+50S	FGL080	21+50S	397110	6906300	swampy
FGL080 22+00S	FGL080	22+00S	397072	6906258	
FGL080 22+50S	FGL080	22+50S	397037	6906221	
FGL081 00+00S	FGL081	00+00S	398469	6907971	line start
FGL081 00+50S	FGL081	00+50S	398459	6907934	
FGL081 01+00S	FGL081	01+00S	398425	6907895	
FGL081 01+50S	FGL081	01+50S	398402	6907851	
FGL081 02+00S	FGL081	02+00S	398368	6907813	
FGL081 03+00S	FGL081	03+00S	398311	6907725	
FGL081 03+50S	FGL081	03+50S	398287	6907687	permafrost
FGL081 04+00S	FGL081	04+00S	398255	6907646	
FGL081 04+50S	FGL081	04+50S	398223	6907607	permafrost
FGL081 05+50S	FGL081	05+50S	398163	6907525	permafrost
FGL081 06+00S	FGL081	06+00S	398139	6907486	
FGL081 06+50S	FGL081	06+50S	398107	6907444	permafrost
FGL081 07+00S	FGL081	07+00S	398069	6907389	

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL081 07+50S	FGL081	07+50S	398049	6907359	
FGL081 08+00S	FGL081	08+00S	398014	6907308	
FGL081 08+50S	FGL081	08+50S	397990	6907281	
FGL081 09+00S	FGL081	09+00S	397961	6907239	
FGL081 10+00S	FGL081	10+00S	397907	6907155	
FGL081 12+50S	FGL081	12+50S	397761	6906957	permafrost
FGL081 13+50S	FGL081	13+50S	397698	6906866	
FGL081 14+00S	FGL081	14+00S	397671	6906828	
FGL081 14+50S	FGL081	14+50S	397671	6906828	
FGL081 15+50S	FGL081	15+50S	397584	6906705	permafrost
FGL081 16+00S	FGL081	16+00S	397558	6906664	
FGL081 17+00S	FGL081	17+00S	397499	6906587	
FGL081 17+50S	FGL081	17+50S	397469	6906540	
FGL081 18+00S	FGL081	18+00S	397441	6906503	rocky
FGL081 18+50S	FGL081	18+50S	397410	6906459	rocky
FGL081 19+00S	FGL081	19+00S	397382	6906419	rocky
FGL081 20+00S	FGL081	20+00S	397328	6906335	
FGL081 20+50S	FGL081	20+50S	397296	6906296	
FGL081 21+00S	FGL081	21+00S	397265	6906258	
FGL081 21+50S	FGL081	21+50S	397240	6906217	small sample
FGL081 22+00S	FGL081	22+00S	397210	6906176	
FGL081 22+50S	FGL081	22+50S	397179	6906125	line end
FGL082 00+00	FGL082	00+00	397450	6906271	line start above road
FGL082 00+50S	FGL082	00+50S	397428	6906231	above road
FGL082 01+00S	FGL082	01+00S	397396	6906184	
FGL082 01+50S	FGL082	01+50S	397362	6906136	
FGL082 02+00S	FGL082	02+00S	397331	6906100	
FGL082 02+50S	FGL082	02+50S	397302	6906064	swampy
FGL082 00+50N	FGL082	00+50N	397489	6906314	rocky
FGL082 01+00N	FGL082	01+00N	397517	6906355	rocky
FGL082 01+50N	FGL082	01+50N	397545	6906397	organic rocky
FGL082 02+00N	FGL082	02+00N	397572	6906440	
FGL082 02+50N	FGL082	02+50N	397602	6906479	rocky
FGL082 03+00N	FGL082	03+00N	397633	6906520	rocky
FGL082 04+00N	FGL082	04+00N	397693	6906600	organic rocky
FGL082 04+50N	FGL082	04+50N	397718	6906637	organic rocky
FGL082 05+00N	FGL082	05+00N	397748	6906681	rocky organic
FGL082 05+50N	FGL082	05+50N	397779	6906723	organic rocky
FGL082 06+00N	FGL082	06+00N	397807	6906764	rocky
FGL082 06+50N	FGL082	06+50N	397834	6906803	rocky
FGL082 07+00N	FGL082	07+00N	397864	6906846	rocky organic
FGL082 07+50N	FGL082	07+50N	397894	6906884	rocky
FGL082 08+00N	FGL082	08+00N	397922	6906927	organic
FGL082 08+50N	FGL082	08+50N	397954	6906967	
FGL082 09+00N	FGL082	09+00N	397980	6907003	
FGL082 09+50N	FGL082	09+50N	398009	6907048	
FGL082 10+00N	FGL082	10+00N	398039	6907087	
FGL082 10+50N	FGL082	10+50N	398075	6907145	
FGL082 11+50N	FGL082	11+50N	398134	6907222	
FGL082 12+00N	FGL082	12+00N	398160	6907260	
FGL082 12+50N	FGL082	12+50N	398192	6907319	rocky
FGL082 13+00N	FGL082	13+00N	398195	6907318	
FGL082 13+50N	FGL082	13+50N	398247	6907385	rocky
FGL082 14+50N	FGL082	14+50N	398299	6907461	
FGL082 15+00N	FGL082	15+00N	398335	6907506	organic rocky
FGL082 15+50N	FGL082	15+50N	398365	6907551	rocky organic
FGL082 17+00N	FGL082	17+00N	398452	6907668	organic
FGL082 18+00N	FGL082	18+00N	398504	6907751	organic
FGL082 18+50N	FGL082	18+50N	398531	6907794	rocky sandy
FGL082 19+00N	FGL082	19+00N	398563	6907832	crossed creek
FGL082 19+50N	FGL082	19+50N	398591	6907880	line end
FGL083 00+00	FGL083	00+00	397440	6905982	rocky
FGL083 00+50N	FGL083	00+50N	397468	6906025	ash rocky
FGL083 01+00N	FGL083	01+00N	397499	6906068	ash

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL083 01+50N	FGL083	01+50N	397530	6906116	rocky
FGL083 02+00N	FGL083	02+00N	397554	6906155	ash
FGL083 02+50N	FGL083	02+50N	397580	6906193	ash
FGL083 03+00N	FGL083	03+00N	397606	6906235	rocky ash
FGL083 03+50N	FGL083	03+50N	397635	6906271	rocky
FGL083 04+00N	FGL083	04+00N	397661	6906311	rocky
FGL083 04+50N	FGL083	04+50N	397687	6906359	rocky
FGL083 06+50N	FGL083	06+50N	397817	6906514	organic ash
FGL083 07+00N	FGL083	07+00N	397842	6906554	rocky
FGL083 07+50N	FGL083	07+50N	397873	6906594	rocky
FGL083 08+00N	FGL083	08+00N	397903	6906638	ash rocky
FGL083 08+50N	FGL083	08+50N	397933	6906678	ash organic
FGL083 09+50N	FGL083	09+50N	397989	6906759	clay,
FGL083 10+00N	FGL083	10+00N	398017	6906803	rocky ash
FGL083 10+50N	FGL083	10+50N	398044	6906839	rocky
FGL083 11+00N	FGL083	11+00N	398072	6906882	rocky organic
FGL083 11+50N	FGL083	11+50N	398103	6906928	rocky organic
FGL083 12+00N	FGL083	12+00N	398130	6906962	rocky
FGL083 13+00N	FGL083	13+00N	398191	6907053	permafrost organic
FGL083 14+50N	FGL083	14+50N	398282	6907174	rocky crossed creek
FGL083 18+50N	FGL083	18+50N	398509	6907494	rocky swampy
FGL083 20+00N	FGL083	20+00N	398595	6907615	rocky ash
FGL083 20+50N	FGL083	20+50N	398623	6907661	rocky
FGL083 21+00N	FGL083	21+00N	398649	6907701	rocky organic
FGL083 22+50N	FGL083	22+50N	398740	6907830	rocky organic
FGL084 00+00	FGL084	00+00	397567	6905903	line start
FGL084 00+50N	FGL084	00+50N	397599	6905946	
FGL084 01+00N	FGL084	01+00N	397628	6905989	rocky
FGL084 01+50N	FGL084	01+50N	397656	6906029	
FGL084 02+00N	FGL084	02+00N	397683	6906064	
FGL084 02+50N	FGL084	02+50N	397710	6906109	
FGL084 03+00N	FGL084	03+00N	397742	6906152	
FGL084 03+50N	FGL084	03+50N	397771	6906194	
FGL084 04+00N	FGL084	04+00N	397801	6906229	10m past, above road
FGL084 04+50N	FGL084	04+50N	397828	6906267	rocky
FGL084 05+00N	FGL084	05+00N	397856	6906311	
FGL084 05+50N	FGL084	05+50N	397883	6906354	rocky
FGL084 06+00N	FGL084	06+00N	397914	6906394	rocky
FGL084 06+50N	FGL084	06+50N	397943	6906436	rocky
FGL084 07+00N	FGL084	07+00N	397971	6906476	rocky
FGL084 07+50N	FGL084	07+50N	397998	6906516	rocky
FGL084 08+50N	FGL084	08+50N	398056	6906603	
FGL084 09+00N	FGL084	09+00N	398090	6906639	mixed B/C horizon, rocky
FGL084 09+50N	FGL084	09+50N	398117	6906680	rocky organic
FGL084 10+00N	FGL084	10+00N	398143	6906724	rocky
FGL084 10+50N	FGL084	10+50N	398177	6906763	
FGL084 11+00N	FGL084	11+00N	398207	6906811	organic
FGL084 11+50N	FGL084	11+50N	398236	6906850	rocky
FGL084 12+50N	FGL084	12+50N	398236	6906850	rocky
FGL084 13+50N	FGL084	13+50N	398351	6907014	rocky sandy
FGL084 17+50N	FGL084	17+50N	398579	6907342	rocky organic
FGL084 18+00N	FGL084	18+00N	398610	6907385	rocky
FGL084 18+50N	FGL084	18+50N	398636	6907425	
FGL084 19+00N	FGL084	19+00N	398669	6907465	
FGL084 19+50N	FGL084	19+50N	398695	6907503	
FGL084 20+00N	FGL084	20+00N	398722	6907548	
FGL084 20+50N	FGL084	20+50N	398749	6907581	rocky
FGL084 21+00N	FGL084	21+00N	398776	6907621	
FGL084 21+50N	FGL084	21+50N	398805	6907660	
FGL084 22+00N	FGL084	22+00N	398835	6907703	line end, rocky
FGL085 00+00	FGL085	00+00	398966	6907612	line start rocky
FGL085 00+50S	FGL085	00+50S	398940	6907586	
FGL085 01+00S	FGL085	01+00S	398907	6907543	
FGL085 01+50S	FGL085	01+50S	398884	6907497	

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL085 02+00S	FGL085	02+00S	398853	6907457	
FGL085 02+50S	FGL085	02+50S	398823	6907412	
FGL085 03+00S	FGL085	03+00S	398795	6907375	rocky
FGL085 03+50S	FGL085	03+50S	398765	6907335	
FGL085 04+00S	FGL085	04+00S	398737	6907296	
FGL085 04+50S	FGL085	04+50S	398707	6907252	
FGL085 05+00S	FGL085	05+00S	398676	6907212	
FGL085 06+00S	FGL085	06+00S	398645	6907170	
FGL085 06+50S	FGL085	06+50S	398597	6907103	
FGL085 08+00S	FGL085	08+00S	398505	6906970	
FGL085 08+50S	FGL085	08+50S	398473	6906929	
FGL085 09+00S	FGL085	09+00S	398447	6906890	
FGL085 09+50S	FGL085	09+50S	398419	6906850	
FGL085 10+00S	FGL085	10+00S	398385	6906803	
FGL085 10+50S	FGL085	10+50S	398356	6906768	
FGL085 11+00S	FGL085	11+00S	398333	6906723	
FGL085 11+50S	FGL085	11+50S	398303	6906687	rocky small sample
FGL085 12+00S	FGL085	12+00S	398273	6906646	
FGL085 12+50S	FGL085	12+50S	398241	6906599	permafrost
FGL085 13+00S	FGL085	13+00S	398217	6906556	
FGL085 13+50S	FGL085	13+50S	398184	6906515	
FGL085 14+00S	FGL085	14+00S	398157	6906473	
FGL085 14+50S	FGL085	14+50S	398125	6906434	
FGL085 15+00S	FGL085	15+00S	398101	6906395	permafrost
FGL085 16+00S	FGL085	16+00S	398039	6906314	
FGL085 16+50S	FGL085	16+50S	398009	6906272	
FGL085 17+50S	FGL085	17+50S	397954	6906189	
FGL085 18+00S	FGL085	18+00S	397928	6906150	
FGL085 18+50S	FGL085	18+50S	397898	6906109	above road
FGL085 19+00S	FGL085	19+00S	397869	6906066	
FGL085 19+50S	FGL085	19+50S	397836	6906027	
FGL085 20+00S	FGL085	20+00S	397809	6905983	
FGL085 20+50S	FGL085	20+50S	397780	6905946	
FGL085 21+00S	FGL085	21+00S	397751	6905904	
FGL085 21+50S	FGL085	21+50S	397724	6905861	
FGL085 22+00S	FGL085	22+00S	397694	6905821	line end
FGL086 00+00	FGL086	00+00	399081	6907534	line start
FGL086 00+50S	FGL086	00+50S	399062	6907506	
FGL086 01+00S	FGL086	01+00S	399033	6907466	
FGL086 01+50S	FGL086	01+50S	399004	6907423	
FGL086 02+00S	FGL086	02+00S	398976	6907384	
FGL086 02+50S	FGL086	02+50S	398948	6907337	
FGL086 03+00S	FGL086	03+00S	398915	6907298	
FGL086 03+50S	FGL086	03+50S	398891	6907258	
FGL086 04+00S	FGL086	04+00S	398864	6907214	
FGL086 04+50S	FGL086	04+50S	398831	6907173	
FGL086 05+00S	FGL086	05+00S	398803	6907135	
FGL086 05+50S	FGL086	05+50S	398774	6907095	
FGL086 06+00S	FGL086	06+00S	398750	6907057	
FGL086 06+50S	FGL086	06+50S	398717	6907008	
FGL086 07+00S	FGL086	07+00S	398688	6906978	
FGL086 07+50S	FGL086	07+50S	398660	6906937	
FGL086 08+00S	FGL086	08+00S	398631	6906891	
FGL086 08+50S	FGL086	08+50S	398603	6906854	
FGL086 09+00S	FGL086	09+00S	398573	6906813	
FGL086 09+50S	FGL086	09+50S	398545	6906770	
FGL086 10+00S	FGL086	10+00S	398518	6906725	
FGL086 10+50S	FGL086	10+50S	398488	6906681	
FGL086 11+00S	FGL086	11+00S	398449	6906639	rocky
FGL086 11+50S	FGL086	11+50S	398433	6906608	
FGL086 12+50S	FGL086	12+50S	398369	6906521	
FGL086 13+00S	FGL086	13+00S	398342	6906472	
FGL086 13+50S	FGL086	13+50S	398317	6906434	
FGL086 14+00S	FGL086	14+00S	398287	6906394	rocky

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL086 14+50S	FGL086	14+50S	398258	6906355	rocky
FGL086 15+00S	FGL086	15+00S	398228	6906316	
FGL086 15+50S	FGL086	15+50S	398200	6906272	rocky
FGL086 16+00S	FGL086	16+00S	398172	6906226	
FGL086 16+50S	FGL086	16+50S	398138	6906189	
FGL086 17+50S	FGL086	17+50S	398090	6906107	
FGL086 18+00S	FGL086	18+00S	398057	6906069	rocky
FGL086 18+50S	FGL086	18+50S	398026	6906029	
FGL086 19+00S	FGL086	19+00S	397999	6905987	above road
FGL086 19+50S	FGL086	19+50S	397970	6905945	
FGL086 20+00S	FGL086	20+00S	397940	6905902	
FGL086 20+50S	FGL086	20+50S	397911	6905863	
FGL086 21+00S	FGL086	21+00S	397881	6905822	
FGL086 21+50S	FGL086	21+50S	397854	6905784	
FGL086 22+00S	FGL086	22+00S	397826	6905742	line end
FGL087 00+00	FGL087	00+00	399204	6907445	organic rocky
FGL087 00+50S	FGL087	00+50S	399174	6907398	rocky
FGL087 01+00S	FGL087	01+00S	399142	6907358	rocky
FGL087 01+50S	FGL087	01+50S	399116	6907319	rocky organic
FGL087 02+00S	FGL087	02+00S	399090	6907281	rocky organic
FGL087 02+50S	FGL087	02+50S	399057	6907233	rocky ash
FGL087 03+00S	FGL087	03+00S	399057	6907233	rocky ash
FGL087 03+50S	FGL087	03+50S	399005	6907153	
FGL087 04+00S	FGL087	04+00S	398973	6907114	rocky organic
FGL087 04+50S	FGL087	04+50S	398946	6907071	ash
FGL087 05+00S	FGL087	05+00S	398916	6907034	
FGL087 05+50S	FGL087	05+50S	398886	6906993	ash organic
FGL087 06+50S	FGL087	06+50S	398827	6906910	rocky organic
FGL087 07+00S	FGL087	07+00S	398797	6906871	organic
FGL087 07+50S	FGL087	07+50S	398772	6906830	rocky
FGL087 08+00S	FGL087	08+00S	398736	6906786	rocky organic
FGL087 10+00S	FGL087	10+00S	398624	6906621	rocky organic
FGL087 10+50S	FGL087	10+50S	398595	6906581	rocky
FGL087 11+00S	FGL087	11+00S	398569	6906540	rocky
FGL087 11+50S	FGL087	11+50S	398541	6906500	rocky
FGL087 12+00S	FGL087	12+00S	398513	6906458	rocky
FGL087 12+50S	FGL087	12+50S	398480	6906417	rocky
FGL087 13+00S	FGL087	13+00S	398457	6906375	rocky
FGL087 13+50S	FGL087	13+50S	398424	6906334	rocky
FGL087 14+00S	FGL087	14+00S	398396	6906293	rocky
FGL087 14+50S	FGL087	14+50S	398366	6906254	rocky rocky
FGL087 15+00S	FGL087	15+00S	398337	6906212	rocky organic
FGL087 15+50S	FGL087	15+50S	398311	6906173	rocky
FGL087 16+00S	FGL087	16+00S	398281	6906131	ash
FGL087 16+50S	FGL087	16+50S	398251	6906088	ash organic
FGL087 17+00S	FGL087	17+00S	398222	6906052	ash organic
FGL087 17+50S	FGL087	17+50S	398191	6906007	ash organic
FGL087 18+00S	FGL087	18+00S	398166	6905969	
FGL087 18+50S	FGL087	18+50S	398134	6905926	
FGL087 19+00S	FGL087	19+00S	398109	6905886	ash organic

SAMPLE ID	Line	Station	Easting	Northing	Description
FGL087 19+50S	FGL087	19+50S	398079	6905846	ash
FGL087 20+00S	FGL087	20+00S	398050	6905803	
FGL087 20+50S	FGL087	20+50S	398019	6905765	rocky organic
FGL087 22+00S	FGL087	22+00S	397935	6905638	rocky rocky
FGL087 22+50S	FGL087	22+50S	397935	6905638	rocky rocky
FGL088 00+00	FGL088	00+00	398082	6905585	line start
FGL088 00+50N	FGL088	00+50N	398082	6905585	line start
FGL088 01+00N	FGL088	01+00N	398082	6905585	line start
FGL088 01+50N	FGL088	01+50N	398082	6905585	line start
FGL088 02+00N	FGL088	02+00N	398082	6905585	line start
FGL088 02+50N	FGL088	02+50N	398224	6905791	
FGL088 03+00N	FGL088	03+00N	398252	6905830	rocky
FGL088 03+50N	FGL088	03+50N	398282	6905869	rocky
FGL088 04+00N	FGL088	04+00N	398310	6905911	rocky
FGL088 04+50N	FGL088	04+50N	398342	6905957	
FGL088 05+00N	FGL088	05+00N	398369	6905995	rocky
FGL088 05+50N	FGL088	05+50N	398399	6906034	rocky
FGL088 06+00N	FGL088	06+00N	398428	6906076	rocky
FGL088 06+50N	FGL088	06+50N	398456	6906117	rocky
FGL088 07+00N	FGL088	07+00N	398485	6906157	
FGL088 07+50N	FGL088	07+50N	398510	6906200	rocky
FGL088 08+00N	FGL088	08+00N	398540	6906244	
FGL088 08+50N	FGL088	08+50N	398567	6906283	
FGL088 09+00N	FGL088	09+00N	398600	6906324	rocky
FGL088 09+50N	FGL088	09+50N	398630	6906365	rocky
FGL088 10+00N	FGL088	10+00N	398656	6906406	
FGL088 10+50N	FGL088	10+50N	398686	6906450	
FGL088 11+00N	FGL088	11+00N	398715	6906489	rocky
FGL088 11+50N	FGL088	11+50N	398742	6906532	rocky
FGL088 12+00N	FGL088	12+00N	398772	6906572	rocky organic
FGL088 12+50N	FGL088	12+50N	398805	6906615	rocky
FGL088 13+00N	FGL088	13+00N	398835	6906655	rocky organic
FGL088 14+00N	FGL088	14+00N	398891	6906737	organic rocky
FGL088 14+50N	FGL088	14+50N	398919	6906775	organic rocky
FGL088 15+00N	FGL088	15+00N	398949	6906818	rocky organic
FGL088 15+50N	FGL088	15+50N	398975	6906857	
FGL088 16+00N	FGL088	16+00N	399006	6906901	
FGL088 17+00N	FGL088	17+00N	399069	6906982	crossed creek
FGL088 17+50N	FGL088	17+50N	399091	6907024	
FGL088 18+00N	FGL088	18+00N	399121	6907063	
FGL088 18+50N	FGL088	18+50N	399148	6907097	
FGL088 19+00N	FGL088	19+00N	399179	6907141	
FGL088 19+50N	FGL088	19+50N	399212	6907181	rocky
FGL088 20+00N	FGL088	20+00N	399233	6907224	
FGL088 20+50N	FGL088	20+50N	399273	6907286	
FGL088 21+00N	FGL088	21+00N	399309	6907333	
FGL088 21+50N	FGL088	21+50N	399330	6907365	line end

Trench Name	From (m)	To (m)	Length (m)	Sample No.	Sample Type	Description
TT17-01	0	6				rubbly hematitic and chloritic gr, wkly veined, NVS
TT17-01	6	8	2	G286396	CHIP	increasingly rubbly and clay altered, esp gougy at 6.2 and 7.8
TT17-01	8	10	2	G286397	CHIP	increasingly rubbly and clay altered, esp gougy at 6.2 and 7.8
TT17-01	10	12	2	G286398	CHIP	gougy clay-altered f.z. w intermittent bleached silicified zones
TT17-01	10.6			G286218	GRAB	pyritic QV to 15cm wide, strike 260 Az
TT17-01	12	14	2	G286399	CHIP	gougy clay-altered f.z. w intermittent bleached silicified zones, wkly more coherent granite after 13.5
TT17-01	12.1			G286219	GRAB	vuggy/cockscomb silicifed rock in rubbly zone (similar zone at 13m)
TT17-01	14	16	2	G286400	CHIP	wkly more coherent granite to 15m
TT17-01	16	18	2	G286401	CHIP	gougy f.z. w local rubbly gr local bleached sections, qz-rich at 18.5
TT17-01	18	20	2	G286402	CHIP	qtz rich at 18.5m, hem-stained gr w intermittent rusty rubbly f.z. (eg. 27.0m)
TT17-01	20	22	2	G286403	CHIP	hem-stained gr w intermittent rusty rubbly f.z. (eg. 27.0m)
TT17-01	22	26.5				hem-stained gr w intermittent rusty rubbly f.z. (eg. 27.0m)
TT17-01	26.5	28	1.5	G286404	CHIP	hem-stained gr w intermittent rusty rubbly f.z. (eg. 27.0m)
TT17-01	28	29	1	G286405	CHIP	hem-stained gr w intermittent rusty rubbly f.z. (eg. 27.0m)
TT17-01	29	32				decreasing hem-stained chl-altered gr
TT17-01	32	44				epidote-veined kspar po gr EOT
TT17-02	0	22				trench has not reached bedrock, boulder lag
TT17-02	22	39				epidote kpo gr, local fz (esp @ 34m) , rusty rock, joint sets at 235 Az
TT17-02	39	41	2	G286406	CHIP	gougy rusty f.z., NVS
TT17-02	41	42.5	1.5	G286407	CHIP	gougy rusty f.z., NVS
TT17-02	42.5	44	1.5	G286408	CHIP	gougy rusty f.z., NVS
TT17-02	44	49				massive dark grey diorite to gabbro, contact at 345 Az
TT17-02	49	53				rubbly kpo gr, rusty, NVS
TT17-02	53	54.5				gougy f.z.
TT17-02	54.5	57				coherent gr w intervals of gougy rusty fault rock, joint sets parallel to trench
TT17-02	57	59	2	G286409	CHIP	coherent gr w intervals of gougy rusty fault rock, joint sets parallel to trench
TT17-02	59	61	2	G286410	CHIP	coherent gr w intervals of gougy rusty fault rock, joint sets parallel to trench
TT17-02	61	73				grey gr kpo EOT
TT17-03	0	2				Hem-stained gr, blocky
TT17-03	2	3	1	G286411	CHIP	Hem-stained gr, blocky
TT17-03	3	4	1	G286412	CHIP	Especially blocky w vuggy cockscomb QV at 3.5m
TT17-03	3.5			G286220	GRAB	vuggy cockscomb QV in rubbly shear zone
TT17-03	4	5	1	G286413	CHIP	Especially blocky
TT17-03	5	10				Hem'ic / chloritic gr. relatively coherent
TT17-03	10	12	2	G286414	CHIP	Hem'ic / chloritic gr. relatively coherent, after 11.5 rusty to crimson to purple shear zones (poss gal?), locally bleaching and QV'ing, intermittent coherent sections
TT17-03	12	13.5	1.5	G286415	CHIP	rusty to crimson to purple shear zones (poss gal?), locally bleaching and QV'ing, intermittent coherent sections
TT17-03	13.5	15	1.5	G286416	CHIP	rusty to crimson to purple shear zones (poss gal?), locally bleaching and QV'ing, intermittent coherent sections
TT17-03	15	19.3				hem-stained jointed gr (190 Az) w local discrete fz's (eg 17.6m)
TT17-03	19.3	20.5	1.2	G286417	CHIP	especially blocky zone, NVS
TT17-03	20.5	31.5				'dirty' chl-altered kpo gr, coherent, local schist inclusions (eg. @ 25m), discrete fz at 31.5m
TT17-03	31.5	40				'cleaner', more coherent gr
TT17-03	40	42				grey-green rubbly fz
TT17-03	42	70				clean granite, fault @ low angles to trench--200 Az at 55m, 265 Az at 57.5m, 185 Az at 61m
TT17-03	69.5			G286221	GRAB	alteration zone w 3% py
TT17-03	70	72	2	G286418	CHIP	gougy, bleached and deep reddened zone (gal?), local min'd boulders shallow angles to trench and 280 Az to trench
TT17-03	72	74	2	G286419	CHIP	gougy, bleached and deep reddened zone (gal?), local min'd boulders shallow angles to trench and 280 Az to trench
TT17-03	74	75.5	1.5	G286420	CHIP	gougy, bleached and deep reddened zone (gal?), local min'd boulders shallow angles to trench and 280 Az to trench
TT17-03	74			G286222	GRAB	sheared fz w py and poss gal
TT17-03	75.5	77	1.5	G286421	CHIP	gougy, bleached and deep reddened zone (gal?), local min'd boulders shallow angles to trench and 280 Az to trench

Trench Name	From (m)	To (m)	Length (m)	Sample No.	Sample Type	Description
TT17-03	77	81.5				decreasing blockiness, local gouge
TT17-03	81.5	90.5				generally coherent gr, disseminated and veined chl
TT17-03	90.5	92	1.5	G286422	CHIP	low-angle gougy fault / shear zone
TT17-03	92	98				chloritic gr blocky to coherent
TT17-03	98	99	1	G286423	CHIP	competent, minor sulphides observed, weak py min'n at 98.3m
TT17-03	99	104				chloritic gr blocky to coherent, EOT
TT17-04	0	3.6				Grey cg fpo gr
TT17-04	2.7			G286211	GRAB	Qz vein, pyritic (southeast side)
TT17-04	3.5			G286212	GRAB	cpy+mal in QV (northwest side), strike 310 Az
TT17-04	3.6	5.1	1.5	G286380	CHIP	Rusty/gougy fault zone. Mal+cp+py in narrow veins
TT17-04	5.1	22.5				Grey granite, increasingly chloritic
TT17-04	22.5	23.3				Highly chloritic and hematitic granite
TT17-04	23.3	29.8				Grey granite, relatively coherent, 28.6m discrete gougy fault zone
TT17-04	29.8	31.5	1.7	G286381	CHIP	Gougy and rubbly fault zone with local coherent intervals, locally pyritic cm-scale qz veins (eg at 30.2m)
TT17-04	31.5	32.5	1	G286382	CHIP	Gougy and rubbly fault zone with local coherent intervals, locally pyritic cm-scale qz veins
TT17-04	31.5			G286213	GRAB	Alteration zone with py
TT17-04	32.5	34	1.5	G286383	CHIP	gougy fault
TT17-04	34	38				Chloritic but relatively competent gr
TT17-04	34			G286214	GRAB	Qz vein, cockscomb to 15cm-wide, strike 332 Az
TT17-04	38	39.5	1.5	G286384	CHIP	Gougy / rubbly fault zone w 15cm wide pyritic silicified zone
TT17-04	39.5	41	1.5	G286385	CHIP	Gougy / rubbly fault zone w 15cm wide pyritic silicified zone
TT17-04	40			G286215	GRAB	Sugary qz / cherty, wide alteration zone, 325 Az
TT17-04	41	48				Grey cg fpo gr
TT17-04	48	53				Road crossing, no trench
TT17-04	53	79				Cg fpo gr, grey, coherent
TT17-04	79	80				Cg fpo gr, chloritic with trench-parallel ank/Fe-Ox veins with rare galena. Joint and veins sets at 250 Az
TT17-04	80	82	2	G286386	CHIP	competent rock, qtz veins
TT17-04	82	84	2	G286387	CHIP	competent rock, qtz veins
TT17-04	84	88				zone at shallow angle to trench
TT17-04	88	90	2	G286388	CHIP	zone at shallow angle to trench
TT17-04	90	92	2	G286389	CHIP	zone at shallow angle to trench
TT17-04	92	93.5	1.5	G286390	CHIP	zone at shallow angle to trench
TT17-04	93.5	95	1.5	G286391	CHIP	zone at shallow angle to trench
TT17-04	95	98				Cg fpo gr, chloritic with trench-parallel ank/Fe-Ox veins with rare galena. Joint and veins sets at 250 Az EOT
TT17-05	0	8				Fpo gr, wkly fol, kspar to 20%
TT17-05	8	16				discrete (20cm) fault zone to chloritic/hematitic gr
TT17-05	16	17.5	1.5	G286392	CHIP	Gougy fault zone (strike 300) into wkly py-min'd hematitic/cb veined alteration zone blocky
TT17-05	17.5	19	1.5	G286393	CHIP	Gougy fault zone (strike 300) into wkly py-min'd hematitic/cb veined alteration zone blocky
TT17-05	18.2			G286216	GRAB	Clay-altered gr w qz veins and diss py
TT17-05	19	22.4				hem-stained, pinkened fpo gr
TT17-05	22.4	24.4	2	G286394	CHIP	Blocky zone of alt'd gr, rusty, sulphidic
TT17-05	24.3			G286223	GRAB	silicified pyritized gr
TT17-05	24.4	26	1.6	G286395	CHIP	Blocky zone of alt'd gr, rusty, sulphidic
TT17-05	24.4			G286217	GRAB	To 15cm-wide sil'd and quartz veined with diss py + malachite
TT17-05	26	30				rubbly, locally gougy hem'ic gr, locally bleached (esp 28.8 to 29.5m)
TT17-05	30	38				sauseritized / chl'd fpo gr, v. local fault zones
TT17-05	38	51				grey gr fpo, EOT
TT17-06	0	4				Hematitic/chloritic kpo gr, NVS
TT17-06	4	18				Coherent 'grey' granite
TT17-06	18	20.2				Granite above becomes increasingly hematitic and chloritic
TT17-06	20.2	21.5	1.3	G286366	CHIP	Faulted gougy zone, locally bleached, locally fe-stained
TT17-06	21.5	22.8	1.3	G286367	CHIP	Faulted gougy zone, locally bleached, locally fe-stained
TT17-06	21.5			G286208	GRAB	12cm vuggy (dissolved) py in QV, mid fz

Trench Name	From (m)	To (m)	Length (m)	Sample No.	Sample Type	Description
TT17-06	22.8	25	2.2	G286368	CHIP	Hematitic rubbly but relatively coherent granite
TT17-06	25	27.5	2.5	G286369	CHIP	Hematitic rubbly but relatively coherent granite
TT17-06	27.5	28.3	0.8	G286370	CHIP	Clayey/gougy, rusty to bleached fault zone becoming blocky
TT17-06	28.3	29.7	1.4	G286371	CHIP	bleached qtz rock interval, qz rich at 29-31m
TT17-06	29.7	31	1.3	G286372	CHIP	bleached qtz rock interval, qz rich at 29-31m
TT17-06	30			G286209	GRAB	multiple generations of qz veins w py
TT17-06	31	32.2	1.2	G286373	CHIP	Mix of competent hematitic granite and local gougy fault zones (especially early in interval)
TT17-06	32.2	33.8	1.6	G286374	CHIP	mostly competent rock
TT17-06	33.8	35.4	1.6	G286375	CHIP	rusty, crumbly
TT17-06	35.4	61				Weakly rusty fractures in coherent blocky grey granite
TT17-06	61	67				Road crossing, no trench
TT17-06	67	70				Rusty, hematitic granite
TT17-06	70	71.5	1.5	G286376	CHIP	Rusty, hematitic competent granite
TT17-06	71.5	72.5	1	G286377	CHIP	polymetallic sulphides observed
TT17-06	72.5	74	1.5	G286378	CHIP	Discrete silicified zone with gal+py, zone to 15cm, late cb veins, faulted on NW side to 1m. Strike 325 Az
TT17-06	73			G286210	GRAB	Ank+qz veins silicified, 15cm zone with gal+qz/cb
TT17-06	74	90.4				Grey cg gr
TT17-06	90.4	91.7	1.3	G286379	CHIP	Rubbly rusty rock, NVS, blocky fault zone
TT17-06	91.7	121				Grey rock, fpo gr. EOT
TT17-07	0	17.5				Grey kpo megacrystic mass bio gr, locally slickensided, becoming hem-stained at 14m, epidote veined at 16.8m
TT17-07	17.5	18.3	0.8	G286351	CHIP	Rubbly fault zone, local sugary qu/cb and chalcedonic veins and irregular ankerite veins. Min'd w cpy and py, ~4cm wide, sulfide-bearing vein @ 18m in 80cm gougy zone
TT17-07	18			G286206	GRAB	cpy+py vein ~4cm wide
TT17-07	18.3	20.1	1.8	G286352	CHIP	rusty competent interval between gougy zones, Discretely faulted gr and schisty mafic xenoliths or segregations, veining parallel to trench?
TT17-07	20.1	20.5	0.4	G286353	CHIP	Rubbly fault zone, with good cpy and py and ankerite veins to ~10cm wide
TT17-07	20.3			G286207	GRAB	~10cm wide cpy+py+ank vein, previous wpt 17
TT17-07	20.5	21.5	1	G286354	CHIP	Chloritized gr, locally faulted
TT17-07	21.5	25				Chloritized gr, locally faulted
TT17-07	25	25.8	0.8	G286355	CHIP	Rubbly fault zone (as in previous like interval), rusty red, very locally veined with chalcedony
TT17-07	25.8	28.2				Blocky gd, relatively coherent
TT17-07	28.2	29.1	0.9	G286356	CHIP	Rubbly fault zone, very locally veined w ankerite/chalcedony, NVS
TT17-07	29.1	30	0.9	G286357	CHIP	Rubbly fault zone, very locally veined w ankerite/chalcedony, NVS, rusty red sections
TT17-07	30	37.4				Relatively coherent gr, v. locally faulted, chloritized/sauseritized/yellow feldspars
TT17-07	37.4	38.2	0.8	G286358	CHIP	rusty red gougy faulted intervals
TT17-07	38.2	39	0.8	G286359	CHIP	rusty red faulted gouge
TT17-07	39	39.7	0.7	G286360	CHIP	coherent interval, rusty red
TT17-07	39.7	40.3	0.6	G286361	CHIP	rusty red, fault gouge
TT17-07	40.3	42	1.7	G286362	CHIP	coherent interval, minor oxidation
TT17-07	42	42.3	0.3	G286363	CHIP	vein, bleached-looking, clay-rich, pyritized gr with local hem/Fe-Ox
TT17-07	42.3	43.6	1.3	G286364	CHIP	coherent interval
TT17-07	43.6	45	1.4	G286365	CHIP	coherent interval
TT17-07	45	60				Grey coherent fpo gr, EOT

APPENDIX B - REVENUE AND NUCLEUS DRILL LOGS

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-01	L. Wilson	0	22.1	NRC	OVB – blocks and rounded pebbles to cobbles until intersecting lake sediment from 13.72-18m. Pebbles & cobbles continue until bedrock at 22.10m (possible cave in from top of hole, or a channel underneath lake seds?).														
GZ17-01	L. Wilson	22.1	30.19	Metamorphic	Metamorphic sediments with granite intrusion. Meta-seds exhibit a dark grey-green colour. Granite intrusions exhibit a light grey-green to buff colour. Transitional intrusive unit with med-coarse grained granite. Contacts between the two lithologies are irregular and often chaotic. Meta-sed and granite show patchy-mottled texture. Quartz crystallization mimics gneissic texture in the meta-seds in some cases. Rounded to sub-angular xenoliths of meta-seds are found in granite intrustions. Alteration: Primary alteration across unit is patchy phyllic, though metaseds particularly contain fine chlorite throughout. Metaseds display patchy weak-moderate silicification, whereas granitic patches are more commonly moderately silicified. Fine-grained pyrite observed throughout unit, typically in thin wispy, sometimes unastamosing stringers. In granitic sections of unit, pyrite is consistently observed in wispy, almost dendritic fashion (discontinous stringers?). Mineralization: Fine-grained pyrite common across unit, mostly occurring in thin wispy stringers, sometimes discontinuous. Two thin veinlets occuring at 25.0m and 29.79m contain small (<1mm) chalcopyrite and pyrrhotite (2x5mm bleb @ 29.79m), intergrown with fine-grained pyrite. Veining: Few thin qz-cal veinlets observed, (specifically one at 25.0m with py, trace cpy & po). Wispy py stringers throughout unit. Discontinuous qz veins or lenses observed, between 0.5-1cm in width, barren of min. Late yellow-milky white clay stringers observed cross-cutting qz veins. Structure: minor fracturing along foliation in metaseds (~25 degrees tca).				Phyllic 1	w			0.5	0	0				
GZ17-01	L. Wilson	30.19	33	APL	Aplitic dike. Light grey-buff in colour, fine-grained unit with gradational margins (occurs along granite/metased contact, weakened zone likely a conduit). Local med-grained sections. Aplite dyke possibly displays Unidirectional Shear Direction (USD) in sections. Alteration: Primary alteration across unit is characterized by wispy pyrite stringers. Entire unit is moderately silicified. Mineralization: Two blebs of pyrrhotite (magnetic) occur in a Qtz-Prt stringer. Veining: Few Py+Chl? Stringers throughout. Qtz veining or pods observed throughout unit. Planar veins of Qtz are ~1.5cm thick, while pods of Qtz are 15cm thick but are not planar (irregular). Structure: Shallow dipping fracture along Py-Chl? Stringer.				Phyllic 1	w			0.1		0				
GZ17-01	L. Wilson	33	45	GRA	Granite: Light grey-green to buff coloured variable fine to coarse grained granite. Contact between aplite dyke and granite appears fairly sharp, meta-sed xenoliths present near upper contact may represent the initial contact interaction between meta-sed and granite. Most of unit displays an equigranular K spar-Qtz assemblage (minor Plag). Crystals are anhedral to sub-hedral. Local fine grained areas throughout. Mafics are possibly Bio-Hbl and can make up 15-20%. Alteration: Weak-moderate silicification throughout? usually over meter-long intervals. K-spar and plag crystals often show weak sericitic/clay alteration throughout, but can be moderate in some locations. Mineralization: Fine-grained pyrite +/- Qtz-Py stringers-veinlets are oberserved throughout the core. Relatively higher rates of mineralization observed within 1m of the upper contact with minor disseminated Py mineralization throughout. Chalcopyrite occurs as mm-sized blebs (up to ~9mm long) in Py +/- Qtz-Py veinlets. Minor amounts of a metallic grey bladed mineral oberserved @ 33.52m (stibnite?). Stucture: Small fault zone located from 44.05m to 44.95, weak (60 deg tca). Units above and below the fault are the same. Small, low angle (10 deg tca) fractures throughout, infilled with clay minerals? Veining: Qtz-Carb veinlets are minor but observed throughout.				Phyllic 1	w			0.8	0.5	0.3				0.25
GZ17-01	L. Wilson	45	116.1	GRA	Granite: Light grey-green to buff (and darker green) coloured variable fine to coarse grained granite. Unit is similar to granite observed above. Most of unit displays an equigranular K-spar-Qtz assemblage (minor Plag). Crystals are anhedral to sub-hedral (on fresh surface). Local fine grained areas throughout, and granophyre texture observed at 97.85m. Small (mm-sized), mafic minerals are observed in the unit (past the 48m depth mark). Mafics are possibly Bio-Hbl and can make up 15-20%. Alteration: Weak-moderate silicification (or just less clay & sericite altered?) throughout, usually over meter-long intervals. K-spar and plag crystals often show weak sericitic/clay alteration throughout, but can be moderate in some locations. Some clay altered feldspars have a distinct red-tinge from iron (Hem). Alternating intervals of increased (mod-strong) clay+carb alteration and lesser altered granite observed. In zones of increased clay & carb alt, Hcl effervesces light tan-brown replaced phenos (carb altered mafics? Hbl?). The same carb-altered light tan-brown phenos are visible in patches of the less-altered primary texture intervals as well. Mineralization: Fine-grained pyrite +/- Qtz-Py stringers-veinlets are oberserved throughout the core. Small blebs (<1mm) of Cpy observed at 82.45m, intergrown with fine-grained pyrite in a disarticulated qz-py vein. Clots of pyrite observed at 91.04-91.44m, between 0.5-5cm. Weakly disseminated pyrite throughout, less than 1%. Stucture: Low angle (~10 deg tca) intra-unit faulting (small scale) observed within unit (fine-grained section faulted against coarser grained sections). Small, low angle (10 deg tca) fractures throughout, infilled with clay minerals? Weak-mod fault zone observed at 68.84m, up to 2.5cm wide, at 20 deg tca. Contains dol-ank xtls remnant of the vein – fault activated along vein surface. Shear (1cm wide) observed at 78.56m, 60 deg tca. Sporadic fault gouge observed from 81.59-81.99m, up to 2cm wide at 81.88m. Weak-mod shear zone between 84.85-85.34m, containing broken core and clay on fractures. Weak fabric observed from 89.92-90.88m, at 35 degrees tca, with 8cm-wide weak fault (25 deg tca) at 90.73m, followed downhole by a few pyrite clots between 0.5-5cm. Veining: Qtz-Carb veinlets are minor but observed throughout unit, often undulatory. Shallow angle dark grey qz veins observed at 69.02-71.61m, and 91.44m, up to 7cm-wide (15 deg tca). Within larger vein from 70.68-71.61m, pink dolomite(?) brecciating the qz and acting as fill. At 69.13m, a 1.5x3 cm clot of fine-grained pyrite observed in grey qz vein, brecciated and cut by later qz veinlet. Late dolomite (or ankerite? Effervesces on scratched & powdered surface with Hcl) veins observed (cross-cutting qz-py veins observed at 71.50m), with a pinkish-tinge between 25-45 deg tca, and sometimes drusy texture. Observed again from 111.4-112.5m, up to 5% across the metre-long interval. Late(?), sharp fracture-fill calcite veinlets observed throughout unit, surrounding phenos altered to carb. Fine-grained pyrite stringers observed throughout (~1%) until .... Pinkining of feldspars occuring near base of interval (93.50-116.08m), surrounding qz +/- ep veinlets, up to a 3cm envelope overall. Primarily observed in less-altered mafic-rich (bt-hbl) sections.				Carbonatew		Phyllic 1	w	0.5						
GZ17-01	L. Wilson	116.1	154.2	DIO	Hornblende-Biotite Diorite (or Gabbro): Mottled cloudy-white (plag) and very dark green-black (Hbl-Bio). Contact is a short transition marked by decrease in qtz from above unit. (Transition occurs over ~20cm). Plagioclase exhibits anhedral-subhedral texture, some small euhedral crystals observed, Hornblende-biotite crystals exhibit anhedral to euhedral crystals. Plagioclase (50-60%), Hornblende (30-40%), Biotite (10-20%), +/- minor qtz (<5%). Primary magnetite observed throughout, using magnet (not visually observed). Mineralization & Veining: Weakly disseminated Py throughout unit, often occuring along-side mafic minerals. Pyrite-Qtz-Carb vein, py occurs as mm-sized blebs @ 124.50m. Appears to be similar to the Qtz-Py veins seen throughout the hole, with later calcite. Qz-carb veinlets throughout unit, undulatory and wispy, less than 1%, sometimes associated with Py mineralization. This unit also contains common light greenish Qtz (+/- Ep) veinlets-veins, in one case containing Po? (@ 124.93m). Associated with these green Qtz (+/- Ep) veinlets-veins are feldspar alteration envelopes (up to 4cm total thickness). Veinlets-veins are typically oriented at 20-30 degrees tca. In the lower half of this unit, from 137.17-154.15 green Qtz (+/- Ep) veins are observed. These veins have a variable solid - wispy character and are generally ~45-60 degrees tca but occur chaotically, pinking of feldspars is associated with these veins. There are also late-stage (cross-cutting) carb stringers-veinlets (<5mm) are sometimes discontinuous and do not appear to be associated with mineralization. At 152.48m, a pink dolomite veinlet is observed cross-scutting a Qz-Ep veinlet (Py observed within pink dolomite at cross-cut?). Structure: A minor fault occurs @ 127.94m, 40 degrees tca. Unit is mostly competent with fractures occurring along veinlets-veins. Alteration: Overall alteration is minor, though pinkening of feldspars occurs as halos or envelopes around green Qtz (+/- Ep) veinlets-veins.				Propylitic	w			0.5						0.5

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-01	L. Wilson	154.2	184.3	DIO	Biotite-Hornblende Diorite: Similar in composition to previous interval, but more textural variation within the unit. Appears to contain less Bt from previous unit as well. Primarily there are more homogeneous sections that are more alike previous unit, but interspersed with darker fine-grained patches and concentrations (likely due to xtl settling – schliren?). Weak magnetism observed across unit, likely due to primary magnetite in diorite. Breccia obseved in unit (Hydrothermal Bx or Contact Bx of another pulse of diorite?), with a sharp upper margin and a more diffuse plastic lower margin from 155.14-155.29m at 40 deg tca. Rounded phenocrysts observed, including feldspars & Hbl, trace Bt. Additional Hbx(?) with diffuse upper margin & diffuse lower margin observed from 179.21-179.31m at 70 deg tca. Few Qz-Ep veinlets throughout, sometimes associated with "pinkening" of feldspars, and observed cross-cutting a small breccia at 171.28m. The diorite around the Qz-Ep vein exhibits pink feldspars, though the breccia appears unaffected. Mineralization: Py stringers throughout, often with Chl selveges. Pyrite weakly disseminated throughout.				Carbonatew		Phyllic 1	w	0.5						
GZ17-01	L. Wilson	184.3	218.9	DIO	Biotite-Hornblende Diorite: Unit is medium-coarse grained, with 35-40% mafics, elongate laths (Hbl) and blocks, (often Chl-altered) ~60% vitreous-milky feldspars (hard but not qz-like). Unit seems equigranular, espec when feldspars are more clay-altered, can see xtl habit more readily. That said, some of the vitreous/milky masses of feldspars resemble blockier 0.5cm K-spar too. Alteration of the unit related to Cal +/- Qz veins, thus alteration is somewhat patchy & mottled, resulting in a grey-green to light buff-green coloured unit. Rock around Qz-Cal veins carb-altered(?), and somewhat hard. Effervesces with Hcl when scratched, also contains sericite. Veining: Interval from 190-192.69m contains somewhat irregular & chaotic veinlets (light tan to brown clay minerals), and fine-grained chlorite selveges. Finely disseminated Py throughout, and few Py stringers (Chl selveges common). Qz-Ep veins up to 3% of interval, associated with weak alteration of surrounding feldspars (often light orange-pink, sometimes white). Qz-Ep veins & veinlets do not appear to coincide with mineralization, though some minor blebs of Py observed occasionally, and are cross-cut by Py stringers. Mineralization: Typically Py mineralization occurs in Qz-Py +/- Chl, Hem stringers, with trace Cpy. Weakly disseminated fine-grained pyrite observed throughout unit. Two variations of Py observed, one as finer-grained darker earthy brown clots, and a coarser-grained more reflective variety occuring in cubes. Structure: Dextral sense of motion observed on 1.5-2cm wide fault at 217.58-217.6m, with sheared and disarticulated dolomite(?) vein uphole at 217.47m. Sporadic fault zone with gouge & soft clay spans across 217.37-218.03m. Host rock surrounding faulted area moderate-strongly clay altered, with feldspars and mafics entirely altered to clay & sericite.				Carbonatew										
GZ17-01	L. Wilson	218.9	254.8	DIO	Biotite-Hornblende Diorite: Equigranular med-coarse grained, 10% darker Bt and 20% Chl-altered Hbl, remainder made up of subhedral milky-vitreous Fsp (crystal shape visible in sericitized zones). Weak-moderate magnetism observed, likely primary fg magnetite. Qz-Py +/- Chl stringers throughout, often low angle (5-20 deg tca), and containing trace Cpy & Stib(?). More mafic xenoliths (or autoliths from earlier, less evolved phase of intrusive) observed towards lower contact, fine-med grained up to 5x10cm in size. Seems to be a slight increase in patchy sericite & possible silica(?) alteration compared with previous intervals. Area surrounding Qz-Py-Chl veinlets more altered (2-3cm wide Chl & Ser-altered envelope). Fewer Qz-Ep veinlets than previously seen, and only minor lightening of the feldspars. Towards the lower contact, appears to be a slight increase in the lightening of the K-spar (pinkish milky colour), primarily surrounding the sporadic thin Qz +/- Ep veinlets, otherwise a more chalcedonic milky Qz veinlet with minor diss Py & light green margins (related to alleged Qz-Ep veins likely). There is a smaller envelope surrounding some of the veinlets associated with pink K-spar, fine-grained and darker, looks like a minor brecciation of the host rock, with some fine-grained Chl. Final 80cm of unit moderately brecciated and sheared, due to intrusion of one phase into the other (lower contact transition to med-grained granite). Mineralization: Unit is characterized by occasional low angle Py veinlets with trace Cpy & Stibnite(?). Vein from 223.82-227.01m (runs along core axis) contains the two different Py (fg earthy brown & coarser cubic), intergrown with minor Cpy and trace Stib(? Soft, metallic silver, fine-grained & sometimes a bit dendritic. Not convinced it's Stib, could be sulphosalts ie. Tetrahedrite). Another Qz-Py-Cpy +/- trace Stib(?) veinlet observed from 234.7-235.13m, low angle (20 deg tca), Cpy intergrown with Py and closely associated with the fg silvery metallic mineral (stib?). Trace Cpy also observed in Qz-Cal-Py stringers within last 1.5m of unit approaching lower contact. Pyrrhotite observed in Qz (somewhat milky, partially layered light green & chalcedonic) veinlet at 244.46m (@ 45 deg tca), with K-spar pinkening surrounding host rock. Structure: Weak shear zone from 229.95-230.25m, somewhat broken Qz-cal/dol vein in the centre, with sheared chl & ser throughout. Rubble zone from 242.32-243.06m, clay & chl on fractures, py observed in vein fragment. Shear zone/weak contact breccia from 254.04-254.84m, minor fabric measured 55-60 deg tca.				Phyllic 1	w			1	0.3			stb		0.1
GZ17-01	L. Wilson	254.8	260.4	GRA	Biotite-Granite: Light grey-green to buff medium-grained equigranular granite. 55% Qz, 35% subhedral to euhedral Felds (difficult to determine K-sp vs Plag, though both laths & blockier feldspars observed, could be ~15% each), 10% biotite (partially altered to Chl). Weak-moderate phyllic alteration observed, with partially sericite-altered feldspars and patches of fully altered phenos. Weak fine-grained pyrite observed, seems to be primarily mineralizing around mafic mineral concentrations. Lower contact is somewhat transitional, with an increased orange-pink colour of the feldspars from 260.06-260.36m (later potassic overprint along contact?), minor contact brecciation at 45 deg tca that the feldspar alteration seems to follow. Veining is predominantly thin stringers-veinlets of Qz (light green, milky, originally thought Ep but looking less likely), ~45 deg tca. No significant mineralization observed (besides trace-weak diss Py).				Phyllic 1	w			0.4						
GZ17-01	L. Wilson	260.4	264	DIO	Biotite-Hornblende Diorite: Minor interval back into the diorite – somewhat mottled and messy, intermixed with granite. Not a sharp contact with the granite, seems to be a bit transitional and alternating back and forth. Brecciation and increased sericitic alteration observed, disseminated Py increased through this sub-interval. Trace Cpy occurs in veinlets intergrown with Py in Qz-Cal veinlets with Chl selveges.				Phyllic 1	w			0.5	0.2					
GZ17-01	L. Wilson	264	282.2	QFP	Quartz-Feldspar Porphyry Dikes through Granite: Upper contact is brecciated with moderate shearing, and is moderately sericitic & clay altered. The unit is primarily light grey-buff coloured fine-med grained QFP dikes, though there are sections of med-grained equigranular granite, from 263.99-267.76m, 272.2-173.16m, and 280.65-281.13m. QFP dikes are 40% fine-grained sub-euhedral feldspar laths (plag), 15% med-grained blockier subhedral feldspars (K-spar), 10% dark brown clots of Py, remaining 35% fine-grained groundmass (light beige-translucent, Qz). Contacts with granitic unit are sharp, with a decrease in grain size closer to the margin (less fine-grained porphyritic plag texture). Alteration: QFP dikes exhibit weak phyllic alteration, as the feldspars are mostly gone to sericite & clay, and fine-grained clots (<0.5cm) and few stringers of pyrite throughout. Granitic sections of unit exhibit similar alteration of feldspars to ser & clay, but significant decrease in Py. Mineralization: Pyrite observed throughout QFP dikes, up to 10% finely disseminated in clots or concentrations. Some larger clots of fine-grained earthy brown Py (0.5-2cm) observed containing trace fg Cpy (277.47m). Qz veinlet observed @ 278.01m with two types of crystallized Py, with minor intergrown Cpy and trace fine-grained silvery-blue metallic sulphide (stibnite? Molybdenite?). Metallic sulphide observed growing around and on the margins of Cpy in veinlet. It also occurs as fine-grained disseminations in the host rock around patchy halos of alteration (up to 4cm) @ 274.70m. Veining: Veins are dominantly 25-40 deg tca, Qz-Py with minor carb. The Qz veinlet with Py-Cpy-Stb(?) at 277.47m is predominantly translucent Qz, with the mineralization making up 10% of veinlet. There is one Qz-Carb vein with brecciated wallrock at 273.30m (25 deg tca) with minimal pyrite clots (could be late picking up rafts up Py from surrounding rock), quartz has crystallized with milky rims around wallrock and more translucent in centre of the vein – reopened and second phase of fluid? Structure: Minor blocky intervals through unit, especially near the upper contact (from 265.79-268.83m). Weak fabric developed along contact breccia at top of unit, ~65 deg tca, with milled up feldspars.				Phyllic 1	m			10	0.5			stb		0.2

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GZ17-01	L. Wilson	282.2	305.7	DIO	Hornblende Diorite: Predominantly med-grained Hbl-phyric diorite (minor biotite). Minor interfingering with equigranular med-grained granite (likely intersecting along a contact). Granitic intervals occur from 282.21-283.19m, 297.47-299.05m and 304.93-305.28m. This interval of diorite appears to be more phyllically altered than seen previously, with an intermittent transition from weaker alteration near the upper contact to a more homogeneously altered section from 292.75-305.65m. In the first 10m of the unit, alteration tends to be stronger within 75cm of minor faulting (acting as fluid conduits), bleaching the host rock and altering feldspars (sometimes mafics) to clay & sericite. Alteration: Intermittent intensity of phyllic alteration across interval, with patchy moderate alteration in first 10m, to a more consistent moderately altered zone from 292.75-305.65m. Feldspars and mafic minerals observed as altered partially or fully to clay and sericite. Some patches of more chlorite-altered mafic minerals observed, with the mafics partially altering to a more beige-light brown clay. Minor patchy K-spar alteration, with a pinkish hue seen from 295.30-295.45m, Qz-Py stringers throuhgout but lacking any of the Qz-Ep veins seen uphole. Qz-Pyrite +/- Cpy veinlets observed through interval (as well as Py stringers) regardless of intensity of alteration. Mineralization: Pyrite observed as clots of fine-grained disseminations, and stringers throughout unit, up to 1% overall. Minor Cpy (trace across unit) occurs intergrown with Py in Qz +/- carb veinlets, often with the two varieties of Py observed (fine-grained earthy brown & more reflective cubic Py). Pyrite observed in a low angle veinlet running along the core axis from 296-296.80m, with black hairline fractures or stringers running through, parallel to core axis & veinlet (could be extensional feature). Veining: Veins tend to be either low angle Qz-Py along the core axis, or between 40-50 deg tca. A 3cm-wide silicious dolomite (could be a different quartz-carbonate vein, hard & effervesces with Hcl) vein observed at 300.25-300.30 (40 deg tca), appearance similar to chalcedony, and very hard to scratch yet it fizzes. This variety of Qz-carb is observed as smoky disarticulated veins in the near viscinity. Some minor Cpy observed intergrown with Py in Qz-Py veinlets, especially in a 2cm-wide vein at 300.03m (bit of an outlier, at 80 deg tca). Later carb veinlets are still observed, though seem to be much harder than seen in previous intervals – likely undergone some silicification. Did see a later carb vein crosscutting an earlier Qz-Py veinlet. Structure: Minor faulting throughout, typically sub cm in thickness and with minor offset. At 286.95m there is a 2cm fault (at 70 deg tca) truncating a 1-2cm banded Qz-Carb-Py vein, with minor shearing and thin py stringers following on the footwall.				Phyllic 1	m			1	0.2					
GZ17-01	L. Wilson	305.7	329	DIO	Biotite-Hornblende Diorite: Diorite continues, though phyllic alteration seems to decrease – mafics are sub-euhedral (though partially altered to chlorite), with some amphibole phenos exhibiting high aspect ratio (quite elongate, almost bladed). Patchy clay alteration observed, primarily around chl and/or carb filled fractures. Darker fine-grained more mafic autoliths observed, typically between 2-6cm in size, with rounded, somewhat sharp margins. Minor section of equigranular granite intersection from 309.50-311.21m. Alteration: Patchy zones of more intense clay & sericite alteration, typically around fractures or carb-filled structures. Increased alt towards lower contact, most mafics gone to clay & sericite. Weak phyllic (with chlorite) alteration across interval, trace-weak pyrite disseminated. Qz-Carb-Py veinlets throughout. Mineralization: Trace to weakly disseminated Pyrite observed, with Py veinlets & stringers (+/- trace Cpy & Po) occuring ~ 3 per metre. Veining: Qz-carb veinlets minor through interval, dominant vein type is Py stringers & 1-2cm wide Qz-Carb-Py veins (with two varieties of Py). Late carb veinlet observed crosscutting 1cm-wide Qz-Carb-Py-Po at 320.75m. Trace Cpy observed in Qz-(+/- Carb)-Py veinlets, with trace Po observed as well. Minor pink carbonate (dolomite or ankerite?) observed in vein (15 deg tca @ 324.90m). Compressional texture observed on a Qz-Carb vein with step-ups at 316.35m, 10 deg tca. A Qz-Ep vein is observed at 10 deg tca from 314.12-314.53m, with a 5cm K-spar envelope, and is seen crosscut by a Carb-Hem veinlet.				Phyllic 1	w			0.5	0.2	0.2				
GZ17-01	L. Wilson	329	388	GRA	Granite: Light grey-green to buff coloured, predominantly equigranular med-coarse grained granite (same granite from previous intervals). Ranges from 30-50% Qz, with the remaining made up of feldspars (appears more dominantly plag vs K-spar, maybe 60/40). Some of the feldspars are coloured pink in some patches (K-spar), but dominantly more of a buff colour overall. Finger of previously seen Hbl-Diorite from 331.84-333.62m, with a very fine-grained mafic dike intersection within Hbl-Diorite from 332.81-333.34m. Dike contains trace Py, and Qz veinlets with minor alteration halos (0.5cm of rock surrounding veinlet is bleached). An additional dike observed from 359.51-363.55m (see subinterval below). A 4x5cm xenolith (or autolith?) observed at 334.55m, with fine-grained felds & qz. Fine-grained disseminated clots of Py observed throughout (still trace), typically concentrated around where primary mafics may have been. Weak patchy hematite in clay-altered feldspars. Alteration: overall weak-mod alteration of feldspars to clay & sericite, though more patchy strong clay-alt of feldspars (often concentrated around Qz-Py veinlets), and intense clay-alt in Hbl-diorite finger from 331.84-333.62m. Pyrite stringers throughout, and occuring as disseminated fine-grained concentrations (replacing primary biotite?) Mineralization: Pyrite up to 1%, occuring as stringers, clots in veins (two varieties, one of which marcasite possibily), and disseminated fine-grained concentrations through host rock. Trace Cpy and the blue-grey metallic sulphide (again! Stibnite?) observed, intergrown with Pyrite in "juicy" 1-2cm Qz-carb-Py veins (specifically in veins @ 335.05m & 335.48m, 20-25 deg tca). One small bleb (1x3mm) of fine-grained stibnite observed in Qz-Carb vein at 353.11m, vein is otherwise barren of sulphides. Trace Po observed in occasional Qz-Py veinlet. The vein at 335.48m has almost "zoned" pyrite mineralization, with a darker, brown earthy tone in the centre of the clot (marcasite) and lighter more yellow & reflective pyrite rim. The pyrite clots are within a 1cm Qz vein, with 0.5cm margins of Carb – carb could have xtallized first, with Qz-Py rich fluid coming later? Veining: Similar veining as seen in previous interval, with 1-2cm "juicy" Qz-Carb-Py (minor Cpy, Po and Stib). Seem to coincide with areas of greater intensity of alteration (sometimes only 2cm envelope), increased disseminated pyrite and lesser alteration of feldspars to clay – more silicified. The Qz-Carb-Py veins with the coarse clots of Py tend to drop off after 343.60m, while Py stringers continue, and sporadic Qz-Carb veins with trace mineralization occur. 3-4cm wide Qz-carb veins occur on the margins of the mafic dike, brecciating along the contact. The vein at 359.48-359.51m (60 deg tca) is predominantly milky Qz with a Py interior, and has a translucent qz veinlet running along the vein margin with a few blebs of Cpy mineralization. The Qz vein at 363.55-363.59m (60 deg tca) is brecciated and contains more fine-grained, black sooty Pyrite. Qz-cal (minor Py) vein (55 deg tca) observed crosscutting a Py stringer at 360.44m (30 deg tca), with more intense hematization of surrounding footwall. Cherty or chalcedonic undulatory Qz (minor hard Carb) veinlets occur towards the end of the hole, from 364-383.10m. Interesting hard, carbonate crystals observed in a vein at 367.37m (20 deg tca), with triagonal-pyramidal hexagonal-cylindrical habit, identified as calcite. Structure: Zone of foliation (40 deg tca) and minor shearing/brecciated wallrock in Hbl-Diorite finger, from 332.16-332.54m. One cm offset of a Py stringer (20 deg tca) observed at 379.56m, with reverse thrust sense of motion (45 deg tca shear, footwall dropped, hanging wall above).				Phyllic 1	w			1	0.3	0.2		stb		0.1
GZ17-01	L. Wilson				Mafic Dike: Black to light grey-green, fine-grained (mildly porphyritic) mafic dike (likely Mt. Nansen volcanic). Fine to med-graind plag phenos visible throughout aphanitic black groundmass, has undergone minor patchy phyllic alteration, with bleaching specifically surrounding veins and stringers. Fine grained disseminated Py throughout, 1% of subunit. Zones of phyllic alteration contain thin hairline stringers (at 35 deg tca) of a dark fine-grained mineral (Py? Bt?). Dike is somewhat foliated and fractured from 362.95-363.27m, and contains a minor 1cm fault (45 deg tca) at 362.97m.	359.51	363.55	Mafic Dike – Mt Nansen volcanic suite?	Phyllic 1	w			1					
GZ17-01	L. Wilson																		
GZ17-01	L. Wilson																		
GZ17-01	L. Wilson																		
GZ17-02	L. Wilson	0	19.87	NRC	no core recovered (casing) - Overburden is mostly silt and sand for the first 15 metres, with few cobbles and occasional boulder. From 15.07 to 19.87m, OVB sub-angular to sub-rounded pebbles and cobbles, with boulders of weak phyllicly altered diorite at 18.06-18.27m and 19.61-19.81m. Pebbly coarse sand intersected from 17.5-17.89m.														

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GZ17-02	L. Wilson	19.87	26.63	FAU	Biotite-Hornblende Diorite (Fault Zone): Light grey-white, with significant faulting and bleaching of mafics and feldspars. Unit is medium-grained, with 40% subhedral mafics (completely gone to clay), 55% fine-grained subhedral-euhedral feldspars and minor quartz (<5%). Unit is somewhat competent, with occasional fault and shearing, until a strong fault zone occurs from 21.96-24.51m, where the unit is highly brecciated, faulted and gouged. Faulting and gouge ranges from 40-65CA, though majority of gouge lacks measurable angle. Trace metavolcanic fragments observed in brecciated zones, unit otherwise devoid of metavolcanic input. Alteration is moderate-strong clay alteration, with feldspars & mafics gone to clays (Fspars white, Bt pinky-buff, Hbl light tan). Pyrite stringers throughout (2%), slightly deformed to disarticulated, and observed in brecciated fragments within fault zone. Sporadic Qz-Carb (dolomite) fragments observed in brecciated zones as well. Fine-grained disseminated wispy pyrite observed at contact with equigranular granite below, somewhat spiderweb like and resulting in minor brecciation of granite (unit downhole). Oxidation occurs across beginning of interval, with complete oxidation of mafics(?) from 19.87-20.11m, and on fracture surfaces from 20.11-22.20m.				Phyllic 1	m	Iron	w	1				feo	5
GZ17-02	L. Wilson	26.63	31.33	GRA	Mottled Granite & Metavolcanics: Unit has a moderately light green-grey and dark grey mottled texture, with mixed up equigranular med-coarse grained granite and dark grey fine-grained metavolcanics(?). Moderate to strong shearing across interval, typically low angle, around 10CA. Granite is med-coarse grained equigranular, with 35% anhedral Qz, 20% light brown-orange feldspars (K-spar), 40% white opaque feldspars (plag), and 5% mafics (mostly pyrite replaced, no remnant texture of previous mafic). Trace pyrite disseminated and occuring in stringers through unit (up to 1%), with very trace Cpy observed in stringers. Dark grey banded vein (2cm) running along core axis for part of interval, closely associated with fractures, and contains fine-grained disseminated pyrite and xtl(?) fragments up to 1mm. Looks reminiscent of a fine-grained dike, but also quite vein-like (Does not effervesce, hard but not Qz hard), could be heated up metavolcanics mixed with silica (part vein, part rock!?). Lower contact is a fault (25CA), and transition back into diorite.				Phyllic 1	m			1					
GZ17-02	L. Wilson	31.33	35.13	FAU	Biotite-Hornblende Diorite in Fault Zone: Moderate-strong shearing, gouge and fault zone. Difficult to ascertain exactly what the composition of unit is, but appears most similar to clay and ser-altered diorite as seen previously, and is followed downhole by more strongly clay and ser-altered diorite. Pyrite observed disseminated through unit (2%), and as undulatory stringers. Light chalky-coloured grey space-filling vein (or aplitic dike fingers?) occurs from 33-33.29m, and as patchy veinlets until 34.23m. Seems to be present in faulted or sheared zones, though absent below this unit. Fabric of shearing and gouge observed to be wide ranging between 20-60CA with a zone of gouge and brecciation from 34.33-35.02m lacking a dominant fabric.				Phyllic 1	s			2	0.1				
GZ17-02	L. Wilson					33	33.29	Chalky-coloured grey space-filling vein											
GZ17-02	L. Wilson	35.13	45.67	DIO	Clay-altered Biotite-Hornblende Diorite: Light grey-buff medium-grained strongly clay and sericite-altered Bt-Hbl Diorite. Phenos are almost entirely altered to clay or sericite, with only minor remnant Bt. Clay & sericitized phenos include a light chalky green (Hbl), pinky-buff (Bt) and white (Fsp). Fine-grained disseminated Py throughout, up to 1%, few stringers in main strongly altered interval. Patchy zones of more intense alteration, seem to coincide with structures and Qz-Cal +/- Py veins. Less intense alteration towards the end of the interval, from 44.25-45.67m. In this small interval, pinky-buff xtals look more like K-spar and less like Bt, though Hbl phenos still altering to a light beige. Pyrite stringers (trace Cpy) 60CA visible from 44.25-45.67m as well, up to 20/metre. Uncommon thin, spidery silk-like brown veinlets (Bt?) crosscut by Py stringers at 45.57m. Moderate-strong fault gouge from 42.61-44.20m, with fabric 10CA and 40CA. Qz-Py vein fragments with trace Cpy visible in gouge/fault-breccia at 43.55m.				Phyllic 1	m			1	0.2				
GZ17-02	L. Wilson					43.55		Qz-Py vein fragments with Tr Cpy visible											
GZ17-02	L. Wilson					45.57		Bt veinlets crosscut by Py											
GZ17-02	L. Wilson	45.67	60.22	DIO	Biotite-Hornblende Diorite: Dark green, medium-grained Bt-Hbl Diorite (or Gabbro). Fspar (50-60%), Hbl (30-40%), Bt (10-20%), with minor qtz (<5%), exhibiting weak phyllic alteration. Patchy zones of clay-altered mafic phenos (Hbl, usually Bt is preserved), with a clay-altered Hbl oikocryst at 47.47m. Bleached and moderate clay-alteration of mafics in viscinity of Qz (minor Carb & Py) vein (10CA) from 52.78-53.70m. Few hairlike Chl stringers with Ep selveges observed, beginning to pick up a bit. Py stringers (trace Cpy) and disseminated clots observed across unit, ~1% overall. Trace Ag sulphosalts & Cpy clots observed in Qz veinlet at 58.72m, with fine-grained chlorite (bluish-green) selveges. Ag sulphosalts highly metallic & reflective, moderately soft with a dark-brown streak, amoeboid in clot shape (too soft to be arseno). Late undulating Carb veinlets across unit (30-60CA), with a 1cm wide dark grey-black Qz vein (70CA) at 52.85-52.86m. Increased alteration of mafics to brown clay and chlorite at lower contact with granitic body.				Phyllic 1	w			1	0.1				
GZ17-02	L. Wilson					47.47		Clay altered Hbl oikocryst											
GZ17-02	L. Wilson					52.78	53.7	Bleached and mod clay-alt of mafics in viscinity of Qz (minor Carb & Py)											
GZ17-02	L. Wilson					52.85	52.86	1cm wide dark grey-black Qz vein (70CA)											
GZ17-02	L. Wilson					58.72		Trace Ag sulphosalts & Cpy clots											
GZ17-02	L. Wilson	60.22	62.56	GRA	Granite: Minor finger of equigranular med-coarse grained Granite. Same as seen previously uphole. Granite exhibiting moderate phyllic alteration, with felds partially gone to clay and sericite. Pyrite stringers and disseminations throughout, up to 2%. Increased alteration of felds to clay adjacent to pyrite stringers. Thin, pink veinlet observed, with surrounding feldspars coloured pink as well, seems to be overprinted by surrounding clays – could be evidence of early potassic alteration overprinted by phyllic? Multiphase Qz-Py vein observed at 61.95m, with late milky Qz dividing translucent Qz-Py vein (Qz fragments visible within translucent Qz).				Phyllic 1	m	propylitic	w	2					
GZ17-02	L. Wilson					61.95		Multiphase Qz-Py vein observed with late milky Qz dividing translucent Qz-Py vein											

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GZ17-02	L. Wilson	62.56	93.29	DIO	Biotite-Hornblende Diorite: Back into the dark green diorite. Upper contact exhibits moderate bleaching & greater alteration from above granite until 63.15m (evidence for Granite intruding Diorite), unit is otherwise weakly phyllically altered (patchy moderate alteration). Weak-moderate magnetism across weakly altered section, likely from primary magnetite. Hbl is Chl-altered, and Chl selveges observed along margins of Py stringers throughout unit (1%). Sporadic dark brown veinlets & veins through unit, with fine-grained Chl +/- Ep & Qz, occasionally bleaching surrounding feldspars pink, or light tan-buff coloured. One of these dark Chl (+ Bt?) veins (40CA) with bleached feldspar margins is observed crosscut by Qz-Py veinlet (5CA) at 71.47m. Qz-Py veinlet cuts through bleached felds (has a light cream-pink colour), further evidence of alteration overprinting early potassic? Pyrite stringers with Chl selveges (trace Cpy) observed being crosscut and crosscutting Qz veinlet at 65.39m. Trace Cpy observed intergrown with two types of Py in a Qz-Py veinlet at 74.00m. One type of pyrite is a dull, earthy brown and is striated with drill lines, whereas the other pyrite is more yellow and reflective, fine-grained and doesn't have the striations. They are intergrown together, not clear which one came first. Pyrrhotite clot in a 2cm wide feldspathic concentration observed at 66.53m. Minor Cal occurs in sheared and deformed veins, almost look pull-apart-like, otherwise Cal veinlets <1%. Patchy zones of moderate alteration (felds to clays & sericite) surrounding Qz (minor Carb)-Py veins (67.70m) and in areas with minor structures. Low angle (15CA) minor fault observed from 74.61-75.27m, with moderate alteration of the upper 2m of hanging wall (Bt and Hbl to Chl & clay, disseminated Py and stringers). Another low angle (15CA) minor fault (1cm across) observed running along core axis (ranges down to 0-5CA) from 84.23-85.60m, with broken up clay and chlorite margins. Minor bleaching of felds in surrounding rock. Patchy moderate-strong chl-clay alteration of mafics towards end of interval (close proximity to Cal-Chl vein) within 87.80-92.30m. Qz-Py veinlet observed crosscutting a Qz-Ep veinlet at 89.14m with Ep selveges.				Phyllic 1	w	propylitic	w	1	0.3	0.1				
GZ17-02	L. Wilson					71.47		Chl-Bt veinlet (40CA) crosscut by Qz-Py veinlet (5CA)											
GZ17-02	L. Wilson					65.39		Py stringer (Tr Cpy) with Chl selveges crosscut and crosscutting Qz veinlet											
GZ17-02	L. Wilson					66.53		Pyrrhotite clot											
GZ17-02	L. Wilson					89.14		Qz-Py veinlet xcutting Qz-Ep veinlet with Ep selveges											
GZ17-02	L. Wilson	93.29	115.5	DIO	Biotite-Hornblende Diorite with Brecciated Zones: Similar to previous interval – dark green med-grained Bt-Hbl Diorite, though this interval with interspersed zones of contact(?) breccia. Xtl fragments within breccia are sub-angular to rounded, dominantly feldspar, with occasional Hbl laths observed, from 0.2-1cm. The breccias are typically dark green with a fine-grained matrix, with diffuse and somewhat transitional margins with the surrounding diorite. Likely contact breccias from multiple pulses of diorite. That said, one breccia interval observed with what looks like a fragment of granite 10cm wide at 101.70-101.80m – hydrothermal breccia? Overall alteration is weak phyllic, with patchy zones of increased alteration espec from 102.66-106.33m (alteration of felds & mafics to clay & ser, increased dark brown hairlike stringers – Chl /w Bt?, minor pinkening of feldspars as well), and increased Chl-Carb-Clay alt 107.50-108.67m (rubble zone, chl-clay-carb on all surfaces). Increased Chl-Clay alt from 110.71-111.30m, with significant alteration of mafics to light green clay. Low angle 1cm Qz-Cal-Py vein with minor Cpy observed (5CA) from 103.00-104.53m, and another at 105.33m (40CA), both with the reflective yellow, fine-grained Py as opposed to the earthy brown variety. Disseminated and stringers of Py between 1-2% overall, with trace Cpy in veinlets. At 109.85m, Qz-Ep veinlet observed alongside Py stringers and Qz-Cal-Chl veinlets. Surrounding wallrock has minor Ep, and Qz-Ep veinlet appears truncated and resulted in a crescent shape. Late cal veinlets throughout interval, up to 1%. Minor shearing in the areas with high clay and Chl, with possible minor fault gouge between 108.50-108.75m. Shearing observed from 110.71-111.25m, with falling apart core due to clay & fg Chl alteration.				Phyllic 1	w	propylitic	w	1.5	0.2					
GZ17-02	L. Wilson					101.7	101.8	Fragment of granite within porphyritic breccia											
GZ17-02	L. Wilson					102.66	106.3	Alt of felds & mafics to clay & ser, with increased dark brown hairline stringers (Chl /w Bt?)											
GZ17-02	L. Wilson					107.5	108.67	Increased Chl-Carb-Clay alteration											
GZ17-02	L. Wilson					110.71	111.3	Increased Chl-Clay alt with signficant alteration of mafics to light green clay											
GZ17-02	L. Wilson					103	104.53	Low angle 1cm Qz-Cal-Py vein with minor Cpy observed											
GZ17-02	L. Wilson					105.33		Low angle 1cm Qz-Cal-Py vein with minor Cpy observed											
GZ17-02	L. Wilson	115.5	120.6	GRA	Granite: Medium-grained beige-buff coloured eqiugranular granite (same as previously seen). 55% Qz, 40% Felds, with disseminated Py replacing mafic phenos (likely original Bt). Trace disseminated Py throughout, with <1% thin, hairlike Py stringers (total Py ~2%). Moderate phyllic alteration, with patchy zones of more clay-altered feldspars. Zone of contact breccia from 115.95-116.54m, light-grey and silicified, with xtl fragments up to 1cm in size. Lower contact is moderately brecciated and transitional back into the Bt-Hbl Diorite.				Phyllic 1	m									
GZ17-02	L. Wilson					115.95	116.54	Contact breccia, light grey and silicified with xtl fragments up to 1cm											

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GZ17-02	L. Wilson	120.6	127.7	DIO	Biotite-Hornblende Diorite: Same Bt-Hbl Diorite as seen previously, with minor patches of pinkening of feldspars. Phyllic overprinting earlier propylitic alteration (Ep & Chl). Pyrite observed as fine-grained disseminations and stringers, up to 2% across interval. Very trace Cpy observed as tiny (0.5mm) bleb in low angle Py stringer (with Chl selveges) at 123.22m. Late Carb veinlets occur (35-45CA), up to 0.5%, crosscutting Py stringers with Chl selveges, and earlier Qz-Ep veinlets (with minor pinkening of Felds). Dark green autolith observed from 123.82-123.88m, likely from earlier less evolved magma.				Phyllic 1	w	propylitic	w							
GZ17-02	L. Wilson					123.82	123.88	Dark green autolith (or schliren) likely from earlier less evolved magma											
GZ17-02	L. Wilson	127.7	144.3	DIO	Biotite-Hornblende Diorite: Interval consists of phyllically altered Bt-Hbl Diorite. Dominantly moderate to strong phyllic alteration with minor patchy zone of weak phyllic alteration overprinting weak propylitic from 138.40-140.67m. In majority of interval, mafics are fully bleached and clay-altered, can really see modal abundance of phenocrysts. 30% med-coarse grained subhedral-euhedral Hbl (beige-cream coloured), 20% med-graind Bt (light pinky-buff), 45% Felds (opaque white-cream), and up to 5% Qz (translucent, space-filling). Silver-metallic sulphide bleb observed in a Qz-Carb-Py vein at 128.31m, possibly Aspy, otherwise a Ag sulphosalt. Fine-grained pyrite disseminated (5%) throughout unit, with area of increased chaotic Qz-Cal-Py veining (up to 15% veining) from 133-137.10m, with 10% pyrite mineralization overall. Trace-minor Cpy (still less than 1% across subinterval) observed in chaotic veinlets & veins, intergrown with Py. Veins in subinterval have been sheared, and are disarticulated, though maintain a relatively low angle (10CA) though messed up. Pyrite occurs in veining as clots, and as disarticulated stringers. At base of subinterval is a 12cm-wide Qz-Carb stockwork vein at 40CA (from 136.80-136.92m), with a light pink hue (dolomite?), and minor stringers of Py along margins. Veining becomes more regular following base of 12cm stockwork vein, with 1% Qz-Carb veinlets and few Py stringers for remainder of interval. Clots of pyrite are observed from 138.40-139m however, seem to be disarticulated veinlets and disseminations. Surrounding wallrock has dark brown stringers throughout, Chl with Bt(?), and Ep-replaced mafic phenocrysts observed. Change in alteration intensity is transitional between the weak and moderate-strong phyllic alteration, with the Hbl altering to a light green clay or sericite, showcasing it as oikocrystic with magnetite chadacrysts (143.80m). Weakly phyllically altered zones are moderately magnetic, likely due to primary magnetite.				Phyllic 1	m			5	0.2			sul		0.05
GZ17-02	L. Wilson					128.31		Silver-metallic sulphide bleb observed in Qz-Carb-Py vein, possibly Aspy, otherwise Ag sulphosalt											
GZ17-02	L. Wilson			DIO		133	137.1	Weak stockwork zone: Fine-grained pyrite disseminated (5%) throughout unit, with area of increased chaotic Qz-Cal-Py veining (up to 15% veining) from 133-137.10m, with 10% pyrite mineralization overall. Trace-minor Cpy (still less than 1% across subinterval) observed in chaotic veinlets & veins, intergrown with Py. Veins in subinterval have been sheared, and are disarticulated, though maintain a relatively low angle (10CA) though messed up. Pyrite occurs in veining as clots, and as disarticulated stringers. At base of subinterval is a 12cm-wide Qz-Carb stockwork vein at 40CA (from 136.80-136.92m), with a light pink hue (dolomite?), and minor stringers of Py along margins.	Phyllic 1	s			10	0.5					
GZ17-02	L. Wilson					143.8		Hbl altering to a light green clay or sericite, showcasing it as an oikocryst with magnetite chadacrysts											
GZ17-02	L. Wilson	144.3	150.2	GRA	Biotite-Granite: Small interval of moderate phyllically altered medium-grained Biotite Granite. Same lithology as previous granite seen before, though can see remnant Chl-replaced Biotite near the lower margin of the unit. In previous intervals the Bt was completely altered and replaced by Py, whereas this unit has more patchy moderate phyllic alteration with only small intersections of Py-replaced Bt. Chl and Hem observed replacing Bt in weakly altered patches. Minor Py overall, though stringers are observed in more moderately altered intersections from 144.31-145.80m, and 146.63-148.74m. Towards lower contact with diorite, pinkening of feldspars occurs.				Phyllic 1	m			3						

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GZ17-02	L. Wilson	150.2	158.8	DIO	Biotite-Hornblende Diorite (Weak Phyllic Alt): Short interval of weakly phyllically altered Bt-Hbl Diorite. Phyllic alteration overprinting weak early propylitic (evidence of Qz-Ep veins and Ep-replaced phenocrysts). Moderate to patchy strong magnetism across interval, likely from primary magnetism. Occasional autolith observed, up to 4cm wide. Weak primary fabric developed in Hbl & Bt, ranges from ~35-60CA. Few thin Qz-Carb veinlets occur 20CA, with minor light green clay-alteration of surrounding mafics within 15cm of veinlet. Trace Py stringers with Chl selveges observed, and fine-grained disseminations trace overall, with highest concentration in close proximity to stringers (1% Py across unit). Lower contact is alteration-based, with a gradual transition into strong phyllic alteration at 158.81m.				Phyllic 1	w	propylitic	w	1						
GZ17-02	L. Wilson	158.8	165.1	DIO	Bt-Hbl Diorite (moderate Phyllic Alt): Bt-Hbl Diorite interval with moderate-strong phyllic alteration, resulting in a light grey-green unit. Lithology is based purely on texture, with no mafics remaining besides clay and sericite-altered relics. Alteration can be texturally destructive in some patches, with the clay and sericite becoming a bit more mottled. In addition, there are zones of shearing, and faulting in this unit. Pyrite occurs disseminated (4%) and as stringers (2%) throughout, up to 6%. Very trace Cpy observed along margin of Py clot at 164.53m. Thin fault (1-2cm) observed running along core axis (5CA) from 161.47-163.0m, with minor gouge from disintegration of clay and ser-altered phenocrysts. Rock is crumbly and difficult to pick up without it falling apart. Another minor fault observed along margin of Qz-Carb-Py vein at 163.70-163.73m (20CA).				Phyllic 1	m			6	0					
GZ17-02	L. Wilson	165.1	169.1	GRA	Granite with Hydraulic Breccia: Moderate phyllically-altered granitic interval from 165.14-169.05m, with strong brecciation throughout. Breccia occurs from 166.12-167.36m, with angular Qz-Carb vein fragments, grey Qz-Carb disarticulated veins and minor Py. Clots and disseminated Py (2%) throughout breccia matrix of light grey Qz-Carb and other fragments, with clay & ser alteration. Breccia appears to be related to a reactivated fault zone and hydraulic fracturing. Veins throughout are vuggy, and chaotic (or brecciated). Py stringers occur throughout unit (1%), typically low angle. Minor (1cm) fault observed at 165.65m (45CA), likely offshoot of major fault following downhole.				Phyllic 1	m			2	0.1					
GZ17-02	L. Wilson					169.35		Qz-Carb-Py vein fragments throughout brecciated zone, with some frags exhibiting Py rimming along vein margins											
GZ17-02	L. Wilson	169.1	174.1	DIO	Biotite-Hornblende Diorite with Hydraulic Breccia: Unit begins in a zone of brecciation due to hydraulic fractruing from 169.05-169.88m, where a fault occurs (20CA) with patchy gouge from 169.88-170.40m. Measured fault is 1cm-wide, though area with patchy gouge is strongly clay-altered, and is likely releated to a healed fault with multiple structures running through. Qz-Carb-Py vein fragments throughout brecciated zone, with some frags exhibiting Py rimming along vein margins (169.35m). Minor Py disseminated through brecciated interval (<1%), though clots and rims on vein fragments result in ~3% overall. Trace Cpy observed along fragment of Py stringer in brecciated zone. Remainder of unit exhibits strong phyllic alteration, and has up to 5% Py as stringers and disseminations. Strong sericite and clay-alteration of phenocrysts across unit. Small (2cm-wide) porphyritic silicic breccia finger (25CA) with sharp clay margins observed at 171.45-171.50m.				Phyllic 1	s			4	0.1					
GZ17-02	L. Wilson					171.45	171.5	Small (2cm-wide) porphyritic silicic breccia finger (25CA) with sharp clay margins											
GZ17-02	L. Wilson	174.1	176.7	GRA	Biotite Granite: Short interval of medium-grained pinky-buff equigranular Bt granite. Minor contact breccia at upper contact, 3cm wide, at 35CA, with increased Fe-Ox input in the clays. Pyrite disseminated and occuring as hair-like stringers through unit, up to 3% overall. Patchy zones of feldspars altered to lighter coloured more opaque clays, as opposed to a more translucent towards lower contact with remnant Bt. Light cotton-candy coloured pink Carb veinlet (15CA) observed crosscutting a more chalcedonic banded grey Qz veinlet (35CA) at 175m. Late Carb veinlets in lower part of unit, from 175.91-176.70m, up to 4%.				Phyllic 1	m			3	0.1					
GZ17-02	L. Wilson					175		Light cotton candy coloured pink Carb veinlet (15CA) observed cusscutting a more chalcedonic banded grey Qz veinlet (35CA)											
GZ17-02	L. Wilson	176.7	196.8	DIO	Biotite-Hornblende Diorite: Dark green to light grey-green to beige medium-grained Bt-Hbl Diorite, exhibiting patchy weak to moderate phyllic alteration. Interval begins in mostly weak phyllic alteration overprinting propylitic, with patchy hematite rimming feldspar phenocrysts. Minor concentration of Ep observed at 181.96-181.99m, otherwise beginning of interval mostly Chl-altered with minor Hem until 182.27m, where there is a sharp alteration change following a Carb veinlet (55CA). Alteration appears to be patchy overall, with more strongly altered intervals and less-altered intervals like that from 176.70-182.27m, though is usually more transitional. An interesting alteration noted from 183.05-183.22m, where the Hbl have altered to a yellowy-orange clay, and the Bt has altered to a blueish grey clay. Following this alteration is a chalcedoney-like grey Qz-Carb brecciating vein with an opaque white Carb rim, containing vein fragments observed from 183.34-183.80m, running along the core axis (~5CA), with no mineralization. Pyrite stringers occur across unit, though more evident in more altered patches. Pyrite stringers (often with Qz) sometimes have a white carbonate rind, and contain trace Cpy. Increased veining through 193.45-195.63m, up to 7%, predominantly Qz-Carb veins with Py clots. Trace silver sulphosalts (dark grey, metallic sulphide) observed in Qz-Carb vein at 195.45m. Fabric observed (30CA), with Qz-Clay veinlets from (METERAGE CORRECT) 191.80-192.50m. Towards bottom of interval is an increase in clay-alteration, and shearing with a fault observed (1-2cm wide @196.34-196.36m 60CA). Shear zone from 195.50-196.60m, with chaotic Qz-Carb-Py veins and Py stringers throuhgout, mostly disarticulated and broken up. Low angle shear (10CA) along Qz-Carb-Py within that zone.				Phyllic 1	m	propylitic	tr							
GZ17-02	L. Wilson					181.96	181.99	Minor concentration of Ep											
GZ17-02	L. Wilson					183.05	183.22	An interesting alteration, Hbl have altered to a yellowy-orangey clay, and Bt altered to a blueish grey clay.											

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GZ17-02	L. Wilson					193.45	195.63	Increased veining up to 7%, predominantly Qz-Carb veins with Py clots. Trace Ag sulphosalts observed in Qz-Carb vein at 195.45m											
GZ17-02	L. Wilson					192.8		Translucent, disarticulated Qz veinlet (20CA) observed crosscutting a Qz-Py stringer (30CA)											
GZ17-02	L. Wilson	196.8	257.9	DIO	Biotite-Hornblende Diorite: Dark green med-grained Bt-Hbl Diorite. Mafics are subhedral-euhedral, and alike previous intervals of diorite seen uphole. Unit exhibits weak phyllic alteration, overprinting weak propylitic. There are patchy areas of minor increased clay-carb alteration across interval, likely surrounding minor shears or fractures, and also a slight "pinkening" of the feldspars typically surrounding Qz-Ep veinlets seen across unit. Trace hematite observed rimming some Cal veinlets, and also as Fe-Ox on fracture surfaces from 241.50-250.60m. Fine-grained mafic autoliths or schliren(?) are somewhat common in this interval, occuring as ellispoidal concentrations, and sometimes more finger-like. A grey-green Qz-Ser(?) vein or dikelet(?) observed with brecciated & Py mineralized Cal vein fragments from 233.60-233.68m, with Cal veinlet margins. Vein is cherty, and broken Qz fragments visible within. Surrounding rock exhibits clay and carb alteration, with a light grey-green tinge. Pyrite occurs as stringers, and less commonly as clots in Qz Carb-Py veins & disseminations. Patchy weak-moderate magnetism throughout, likely due to primary magnetite in host rock. There are patchy areas that exhibit moderate sericite alteration of feldspars, and increased disseminated Py, with a dark grey-green brownish tinge, in viscitinity of Qz-Py veinlets. Dark brown hairline veinlets in these areas of increased alteration, Bt? Minor increase in sulphide mineralization within interval, from 217.09-222.15m (see sub-interval below), otherwise Py mineralization between 1-2% overall. Qz-Carb-Py veinlets and rare Py stringers contain trace Cpy and silver sulphosalts, with rare trace pyrrhotite. Trace sulphosalts (outside of sub-interval) observed at 217.54m, 227.72m and 249.75m.				Phyllic 1	w	propylitic	w	1.5	0.2					
GZ17-02	L. Wilson					208.55	209.44	Dark green-brown section with increased alt (Potassic?) with fully ser-replaced feldspars and dark Chl & Bt(?) alteration											
GZ17-02	L. Wilson			DIO		217.09	222.15	Minor zone of increased mineralization and low angle Qz-Carb-Py veining up to 7%. Patchy moderate phyllic alteration surrounding veins and veinlets, with fine-grained Chl-Ser (+/- Clay) haloes. Larger vein between 220.5-221.50m (10CA) observed to have Py stringer offshoots at higher angle (35CA), and fine-grained Chl along margins and encorporated with Cal. Cpy up to 0.5% across subinterval, occuring as amoboid clots typically intergrown with Py. One speck of bright metallic silver sulphosalts was observed 217.54m. Qz-Carb-Py veins ~5-10CA, with two varieties of Py in clots (up to 2% combined with diss). Late undulating calcite vein observed, otherwise veins observed are Py stringers or Qz-Carb-Py described previously.	Phyllic 1	m	propylitic	w	2	0.4			sul		0.01
GZ17-02	L. Wilson					217.54		Ag sulphosalts observed											
GZ17-02	L. Wilson					227.72		Ag sulphosalts observed											
GZ17-02	L. Wilson					249.75		Ag sulphosalts observed											

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GZ17-02	L. Wilson					231.14	222.15	Sample collected for K-spar staining of a disarticulated, unasatamosing Qz-Ep veinlet with minor disseminated Py and a K-spar(?) halo 4cm wide											
GZ17-02	L. Wilson	257.9	261.7	GRA	Biotite Granite: Same equigranular medium-grained buff-coloured granite (as seen uphole) with more of a propylitic alteration than seen before. Dull pistachio green-brown spidery veinlets of Qz-Ep observed, with Qz and few xtl fragments visible within larger veins. Towards lower contact, unit gains a bit more of a browny tinge, and more brown thin hairline stringers observed, possibly a Chl-Bt combination? Weak pinkening of feldspars in this lower section of unit Chl-altered primary Bt phenos throughout unit, up to 30% towards the base. Pyrite tends to be weakly mineralized as Qz-Py-Chl stringers (0.4%), with very trace Cpy observed in stringers.					propylitic	tr			0.4					
GZ17-02	L. Wilson	261.7	268.1	DIO	Bt-Hbl Diorite: Back into the same diorite as seen previously, with a reasonably sharp upper, and very sharp lower contact. Fine-grained autoliths or schliren still observed, ellipsoidal and sometimes blotchy. Alteration is patchy weak phyllic, with an increase in Ser and Chl alteration surrounding Qz-Cal-Py veins. Py stringers observed, with disseminated clots in the nearby wallrock. Trace Cpy observed in Qz-Py veins, and trace disseminated in Ser-Chl halo surrounding vein. Unit exhibits patchy weak-moderate magnetism, likely from the primary magnetite. Lower contact with Bt Granite at 15CA, with very minor contact brecciation.					Phyllic 1	tr			1	0.1				
GZ17-02	L. Wilson	268.1	276.9	GRA	Biotite Granite: Very weakly altered medium-grained equigranular Bt Granite, with an episode of patchy porphyritic magmatic mixing with the Bt-Hbl Diorite (from 269.89-272.85m). Few Qz-Ep veinlets observed, with pinky haloes of altered feldspars. Chlorite alteration of primary biotite weak and patchy, though a slight increase in Chl observed in porphyritic magmatic brecciation, Chl stringers also observed to increase towards lower contact. Zoned K-spar up to 0.5cm observed within porphyritic sections. Pyrite is quite weakly disseminated throughout unit, and typically mineralized on a Bt grain, also sometimes Chl-replaced (Bt). Alteration weakly increases towards the lower "contact", with an increase in clay-replaced feldspars, and Bt to clay, Chl and Py.					Phyllic 1	tr	propylitic	tr	1					
GZ17-02	L. Wilson					269.89	272.85	Magmatic mixing of felspar porphyritic composition, with a minor section of Bt-Hbl Diorite. Zoned Kspars observed (up to 0.5cm) within porphyritic zones.											
GZ17-02	L. Wilson	276.9	279.4	GRA	Bt Granite: Light grey-green moderately phyllically altered Bt granite. Felspar phenos have been altered to clay and green sericite, Bt is dominantly gone to clay and Py. Unit contains low angle (15CA) undulating Qz-Carb-Py veins, rimmed with Dolomite and later cut by grey calcite veinlets. That said, Py is observed rimming Dol fragments in a Qz-Py vein, Moderate brecciation surrounding low angle Qz-Carb-Py veins, with clay altered laths of felds or mafics visible in breccia. Pyrite occurs as disseminations typically around disarticulated stringers, up to 3%.					Phyllic 1	m			3					
GZ17-02	L. Wilson	279.4	293	DIO	Bt-Hbl Diorite: Moderately phyllic alterated Bt-Hbl Diorite. Faulted upper contact, with Qz-Carb-Py veining, brecciation and visible fault (25CA, minor, appears to be up to 3cm wide) observed from 279.43-280.03m.Grey brecciating vein has dolomite rinds around fragments and is quite silicified at 35-45CA. Wallrock fragments and vuggy texture within breccia, with minor Py stringers observed. Unit contains low angle Qz-Carb-Py (+/- Cpy) veining, with moderate-strong alteration haloes of increased sericitization, disseminated Py and trace-weakly disseminated Cpy, Po and Ag Sulf (SS). Qz-Carb-Py vein at 281.60m has coarse clots of Py, pink Dol, and Cpy in immediately surrounding wallrock (could just be a silica flooded "ghost" vein with diffuse margins). Fine grained, dark grey metallic silver sulphosalts observed intergrown with Py and Cpy in messy looking vein at 282.10m. Minor intersection of the Bt granite in this interval, up to 80cm, from 282.94-283.70m, with trace Mo(?) observed in a Py stringer. Diorite exhibits patches with increased ser-alteration of groundmass and hairline Bt stringers, to more clay-altered patches. Moderate fault zone and brecciation observed from 285.70-288.20, with two faults over 20cm in thickness. Faults occur from 286.31-286.54m (25CA) and 287.59-287.80m (50CA), both with moderate amounts of gouge and wallrock clasts. Interesting breccia observed from 286.93-287.20m, with multiple veining events and crosscutting relationships. Vein paragenesis complex, with mulitple brecciation events due to hydrothermal fluids and reactivation of fault zone evident. Pyrite matrix is observed, infilling space between brecciated wallrock and dolomite vein clasts that were previously brecciated in earlier faulting event. It is clear that dolomite and Py are reoccuring throughout this breccia history. Following the latest Py-infilling matrix event is a dolomite breccia, crystallizing as rims on wallrock fragments, and leaving a vuggy texture. Grey chalcedonic Qz occured next, infilling open spaces and replacing some wallrock fragments within breccia. Lastly, a grey Cal veinlet crosscut across all veins and breccias, with partial infilling of the dolomite vein breccia. Towards the bottom of the interval, alteration changes to a more patchy moderate ser-alteration with hairline Bt stringers, and patchy increase in clay and pinkening of feldspars surrounding a Qz-Py veinlet and Py stringers. Pyrite is disseminated and occurs as stringers throughout unit, up to 2%, and Qz-Carb veining up to 5%. Low angle Qz-Carb-Cpy-Po vein observed undulating along CA from 291.16-292.25m, with significant smears of Cpy (cut along vein surface), clots of Po, and trace Ag sulphosalts. Cpy appears to be space-filling, surrounding visible hexagonal xtls of Qz. One xtl of Qz actually contains a bleb of Cpy! Pink dolomite in vein contains same hexagonal xtls throughout, likely was a vuggy Qz vein that dol infilled later. Contact with lower Bt granite is somewhat mottled and diffuse.					Phyllic 1	m			2	0.4				
GZ17-02	L. Wilson					281.6		Qz-Carb-Py vein has coarse clots of Py, pink Dol, and Cpy in immediately surrounding wallrock (could just be a silica flooded "ghost" vein with diffuse margins)											

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GZ17-02	L. Wilson					282.1		Fine-grained, dark grey metallic silver sulphosalts observed intergrown with Py and Cpy in messy looking vein											
GZ17-02	L. Wilson					285.7	288.2	Moderate fault zone and brecciation observed from 285.70-288.20, with two faults over 20cm in thickness. Faults occur from 286.31-286.54m (25CA) and 287.59-287.80m (50CA), both with moderate amounts of gouge and wallrock clasts.											
GZ17-02	L. Wilson					286.93	287.2	Interesting breccia observed from 286.93-287.20m, with multiple veining events and crosscutting relationships. Vein paragenesis complex, with mulitple brecciation events due to hydrothermal fluids and reactivation of fault zone evident. Pyrite matrix is observed, infilling space between brecciated wallrock and dolomite vein clasts that were previously brecciated in earlier faulting event. It is clear that dolomite and Py are reoccuring throughout this breccia history. Following the latest Py-infilling matrix event is a dolomite breccia, crystallizing as rims on wallrock fragments, and leaving a vuggy texture. Grey chalcedonic Qz occured next, infilling open spaces and replacing some wallrock fragments within breccia. Lastly, a grey Cal veinlet crosscut across all veins and breccias, with partial infilling of the dolomite											
GZ17-02	L. Wilson					291.16	294.31	Increased interval of veining and Cpy, Po & Ag Sulf mineralization											
GZ17-02	L. Wilson	293	308.5	GRA	Bt Granite: Same Bt Granite as seen in prev intervals. Alteration is patchy weakly phyllic, with minor patches of strongly clay-altered feldspars. Minor Chl-alteration of primary Bt, with closely associated Py. Minor shear through clay-altered feldspathic zone at 297.30m (70CA). Pyrite occurs as stringers and patchy disseminations (typically associated with Bt & Chl as mentioned), up to 1%. A zone of porphyritic feldspar texture observed in a magmatic finger from 303.57-303.66m, similar texture as seen uphole around 270-272m, with zoned K-spar phenos just shy of 1cm. Immediately following the porphyritic finger (304-304.20m), is a small xenolith or block of the Bt-Hbl Diorite. The lower contact with the Yukon Tanana metavolcanics is transitional, with minor digestion of wallrock by the granitic intrusion, and occurs over 1 metre (307.50-308.50m). In this transitional contact zone, ser-sil alteration is evident, with an increase in Bt (likely due to the composition of metavolcanics).				Phyllic	1	w		1					

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-02	L. Wilson					303.57	303.66	Zone of porphyritic feldspar texture observed in a magmatic finger, similar texture as seen uphole around 270-272m, with zoned Kspars just shy of 1cm.											
GZ17-02	L. Wilson	308.5	351.6	SCH	Biotite Schist or Gneiss: Dark purple-green grey, fine-grain foliated biotite metavolcanics from the Yukon Tanana assemblage. Layers or beds exhibit alternating increased Chl and clay-alteration, Bt concentrations, and silicified layers with Py throughout. Unit seems somewhere between a gneiss and a schist, with separation of mafic and felsic layers. More silicified felsic layers from 30-40% of unit, dominantly Bt & Chl-rich layers. Minor Bt stringers and selveges observed alongside Py stringers. Occasional xtl-rich lens observed, with remnant med-grain phenos visible (could be later sill, zoned Kspar phenos observed somewhat similar to magmatic porphyritic texture seen in granite uphole). Metamorphic deformation apparent, with beds ranging from 20-55CA, though seem to be around 40-45CA for the most part. Alteration is mostly patchy trace-weakly phyllic, with a small interval of more moderate alteration (326.73-333.05m) surrounding a moderate shear zone from 328.80-330.10m. Shear zone (25-40CA) contains brecciated and disarticulated Qz-Carb veinlets, and contains milled up xtl fragments. Patches of more porphyritic-looking rock just above shear zone, could be related to faulting of nearby intrusion. Qz-Carb veining throughout, typically along foliation, with occasional veining cutting beds (late Cal veinlets cut across). Beige clay braided hairline stringers intersect more biotite-rich dark purple layers. Possible granitic fingers observed as well, with a medium-grained interlocking felspathic & silicious texture, intersecting parallel to bedding (not a dead ringer for granite, but reminiscent). Occasional buff-coloured silicified lenses observed, aplitic to patchy remnant feldspar phenos visible, and disseminated Py and trace Po. Minor (1%) Qz-Carb-Py veining throughout unit, trace Cpy observed intergrown with Py. Rare dark black clots observed in Qz-Carb veins and surrounding wallrock at 317.50m and 323.80m, Bt? Disseminated Py occurs throughout, around 1-2% overall. Cpy "stringers" observed occasionally through unit, typically in a Py stringer with a 0.5cm string of Cpy instead of Py, sometimes with Chl selveges. Trace Cpy has been observed disseminated as well, as well as blebs of Ag sulphosalts, sometimes intergrown together. Trace botryoidal sulphosalts also occur in veins, dark grey-purpleish black (.01% overall). Cpy & Po mineralization seems to increase towards lower contact with intrusive unit.				Phyllic	1	tr		1	0.1	0.2			sul	0.01
GZ17-02	L. Wilson					317.5		Rare dark black clots observed in Qz-Carb veins and surrounding wallrock, Bt?											
GZ17-02	L. Wilson					323.8		Rare dark black clots observed in Qz-Carb veins and surrounding wallrock, Bt?											
GZ17-02	L. Wilson					326.73	333.05	Weak-moderate phyllic alteration of Bt schist/gneiss. Unit contains 2-3% Py, disseminated and as disarticulated stringers. Contains shear zone, with very minor fault (25CA).	Phyllic	1	m		3						
GZ17-02	L. Wilson					342.83	351.57	Zone of increased Cpy mineralization (up to .5%), observed predominantly as low-angle stringers and in Qz veinlets (10-20CA). Trace disseminated Cpy observed, and minor Po across interval. Trace Ag sulphosalts observed as blebs in Qz veins with Py +/- Cpy.	Phyllic	1	tr		3	0.5	0.5			sul	0.05
GZ17-02	L. Wilson	351.6	358.1	GRA	Bt Granite & Bt-Hbl Diorite: Upper contact is transitional, with an integration and digestion of Metavolcanic fragments. This interval is comprised of the closely associated Bt Granite & Bt-Hbl Diorite, with quick transitions between the units. Differention between granite & diorite is possible thanks to weak phyllic alteration, resulting in feldspars altering to clay and leaving Qz visibly translucent. There is also a lack of mafic phenocrysts (besides Bt) in the granite, whereas the diorite has med-grained amphiboles visible. That said, the contacts aren't exceptionally sharp within this interval – the intrusions are quite transitional to each other. Diorite with metavolcs from 351.57-353.60m, then Granite until 355.61m, and Diorite for the remainder of the interval into the faulted zone. Alteration is weakly phyllic, with increased patchy clay-alteration towards lower contact (357-358.07m). Two Qz-Py +/- Cpy veinlets occuring in more strongly clay-altered zone have a 2-3cm wide armoured halo of silica. Py stringers and disseminations observed throughout, with trace clots of Cpy occuring intergrown with Py in Qz-Carb-Py veinlets (less than prev interval). Trace clots of Mo observed in viscinity of a Py stringer at 354.05m and trace Ag Sulphosalts (SS) observed throughout.				Phyllic	1	w		1.5	0.3	0.1	0		sul	0.05
GZ17-02	L. Wilson					354.5		Trace clots of Mo											

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GZ17-02	L. Wilson	358.1	368.1	FAU	Fault & Shear Zone: Moderate zone of faulting, shearing and brecciation. Significant structure through this zone, likely a reactivated and healed fault zone. Lithologies include Bt-Hbl Diorite and Bt Granite though quite brecciated, mottled and milled up. Alteration is weakly-moderately phyllic, with clay and ser-alteration of phenocrysts. Patchy Bt alteration observed in unit, with lighter green Chl stringers observed cutting across some Bt hairline stringers. A light green-grey clay is observed as breccia matrix in some patches across unit, and minor carb occurs fracture-filling as well. Disseminated Py, minor Cpy and Po, and trace Ag sulphosalts observed across brecciated unit. Trace disseminated Cpy observed grown on Bt clots. Qz-Carb-Py vein fragments in brecciated zone from 358.10m, with blebs of Cpy visible. Cpy mineralization up to 0.5% across interval, with 2% Py and lesser Po (~0.5%). Low angle minor fault observed nearly parallel to CA from 358.14-358.62m (5CA).				Phyllic 1	m	Potassic	tr	2	0.5	0.5			sul	0.02
GZ17-02	L. Wilson	368.1	378	DIO	Bt-Hbl Diorite with Stockwork Zone: Upper contact is marked by a change in alteration, with the continuation of milled up phenocrysts occuring. Patchy weak to moderate Bt-alteration occurs at top and base of unit, with hairline stringers and more patchy dendritic secondary biotite concentrations occuring. There is minor Chl-stringers alongside and possibly overprinting & crosscutting Bt stringers, likely weak later phyllic overprint. An increase in Py and Pyrrhotite observed disseminated throughout surrounding wallrock, with an increase in Qz veining. A minor stockwork zone occurs from 372.09-374.48m with minor Cpy, Po and Ag sulphosalts disseminated throughout. Stockwork is chaotic and disarticulated, with a low angle orientation (20CA) of peripheral Qz-Py-Cpy veins. Wallrock within and surrounding stockwork is fine-grained and exhibits texturally destructive moderate-strong silicification, ser-alteration, and Py clots. Lower contact with granite is reasonably sharp, though diorite contains more of that rounded xtl, porphyritic texture. Could be due to a mechanical rounding and sorting of feldspars, applying a porphyritic texture to a contact breccia?				Phyllic 1	m	Potassic	w	3	0.4	0.3			sul	0.2
GZ17-02	L. Wilson					372.09	374.48	Minor stockwork zone with Cpy, Po, and Ag sulphosalts disseminated. Chaotic & disarticulated, with probable overall low angle orientation (20CA). Qz-Cal stockwork makes up about 20% of subinterval.	Phyllic 1	m			3	0.4	0.3			sul	0.2
GZ17-02	L. Wilson	378	386.6	GRA	Bt Granite: Trace-weakly altered medium-grained equigranular Bt granite. Minor Chl-alteration of Bt, and few Chl-stringers observed. Trace Py stringers occur through unit, with trace disseminated. Alteration is trace overall, with minor patches of more clay-altered feldspars surrounding fractures. Very trace Cpy observed intergrown with Py stringer. Few late carb veinlets observed.				propylitic	tr			0.5	0					
GZ17-02	L. Wilson					382.54	382.65	Granite sample taken for Kspar staining											
GZ17-02	L. Wilson	386.6	399	DIO	Bt-Hbl Diorite: Interval of weakly propylitic altered Bt-Hbl Diorite, with few autolith or schliren observed, and increased magmatic(?) porphyritic texture towards the bottom. Chl observed partially altereing Bt, and occuring in veins (sometimes with Py) and selveges of Qz-Carb-Py veins. Qz-Ep veining observed in unit as well, with a 3cm vein occuring along CA from 392.90-393.75m (around 5CA). Vein margins are diffuse, and Ep is infilled around some feldspathic phenos in wallrock. Py clots and Qz-Py-Chl veinlet occur around and through vein, with minor silicification and armouring of wallrock from Ep. Few late carb veinlets occur through unit, and there is a Cal vein at 392.45m with surrounding increased clay alteration of feldspars in the footwall. Towards the base of the unit exhibits more of a porphyritic texture, much alike to the fingers of magmatic mixing seen in previous Diorite intervals. From 394.50-398.98m, there is a decrease in mafics, and it appears to be transitioning into a finer-grained bt granite. This could be due to a mixing with previous granitic interval, as well there is a flux of the med-coarse grained porphyritic. Fine-grained Bt observed in the more porphyritic section, with sub-rounded or subhedral to more euhedral med-coarse feldspars (sometimes zoned Kspar). Py-Chl stringers throughout, and Ep veinlets observed as well. Trace Cpy observed intergrown with Py in Qz-Carb-Py veinlets through overall unit. EOH at 398.98m.				propylitic	w			1	0					
GZ17-02	L. Wilson					392.9	393.75	Qz-Ep vein (3cm wide) along CA. Vein margins are diffuse and Ep is infilled around some feldspathic phenos in wallrock											
GZ17-03	L. Wilson	0	4.12	NRC	no core recovered (casing) - mostly overburden														
GZ17-03	L. Wilson	4.12	24.43	DIO	Fe-Oxidized Bt-Hbl Diorite: Moderate-strongly Fe-oxidized medium-grained euhedral Bt-Hbl diorite. Patchy strong oxidation, with evidence of faulting and brecciation across interval. Some intervals are so brecciated and oxidized, resulting in textural destruction. Biotite partially and euhedral hornblende phenocrysts fully Chl-replaced, making it somewhat difficult to discern modal abundances. Looks like around 10% Bt, 15% Hbl, 73% felds and Qz <5%. Fe-Carb veinlets throughout, especially in more oxidized sections. Few oxidized remnant Py stringers observed, with Hem rimming remaining Py. Disseminated magnetite observed, typically in dark grey-black blebs, and rarely in larger clots. No Qz veining observed, typically Carb, Fe-carb or clay. Completely ser-altered feldspars visible in some patches (6.28-7.20m). Intervals with significant weathering, core is left as a coarse sandy material (Chl-altered phenos visible in fragments). Faulting observed across unit, ranging from 10-45CA, with healed faults at 8.80m (30CA) and 10.30m (10CA). Pyrite is trace across unit, with only remaining min visible in oxidized stringers, or clots around. Trace malachite and azurite observed along fault (45CA) margin at 15.40m, and in carb veinlet along fault margin.				Iron	m			0.1					feo	10
GZ17-03	L. Wilson					15.4		Trace Mal and Az observed along fault fracture										mal	0.01

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GZ17-03	L. Wilson	24.43	42.48	GRA	Fe-Oxidized Intercalated Bt-Hbl Diorite and Bt Granite: Short intervals of moderate-strongly Fe-oxidized medium grained granite intercalated with med-grained Bt-Hbl Diorite as seen uphole. Granitic intervals occur at 24.43-28.65m, 29.65-33.30m, 37.47-42.48m. Granite exhibits patchy Qz and feldspars visible, with majority of feldspars(?) Fe-altered and somewhat mottled. Fe-oxidation occurs in wallrock surrounding orange FeO (Fe-carb or lim?) stringers and fractures (chaotic, but some oriented at 45CA). Trace-minor Py observed in stringers, rimmed with hematite, and partially replaced by Fe-carb. Within diorite, FeOx is patchy, with concentrations around stringers and veins. Contacts between granite and diorite are often brecciated, with milled up phenocrysts and clay-replacement occuring. Patchy stronger clay replacement of phenos, typically associated with broken up core. Late carb stringers throughout, though typically Fe-oxidized and orangey-brown. Trace malachite observed in veinlets in diorite at 34.44m and 35.55m, growing on the margins of Py in veinlets, and in Qz-Py veinlets. More trace malachite was observed in the granitic unit at 38.60m and 38.72m, with no close association with Py, and instead infilling a cal veinlet (Py nearby, but not grown on margins). Trace blebs of Cpy observed in occasional Qz-Py veinlets. Remaining Py minor overall, up to 0.5%, occuring as rare clots and typically stringers. Possible Tr blebs of SS observed in Qz-Carb-Py vein (15CA) at 40.10m, or altered Mag? Metallic grey, no streak (too hard just crumbles), not magnetic (though could be very weakly magnetic). Faulting is observed across lithologies, typically occurring as crumbled up core, with minor fabric in surrounding competent rock. Minor faulting occurs at 39.10m (30CA), 42.15m and 42.59m (40CA), with minor-moderate crumbled up FeOx clays.				Iron	m	Phyllic 1	tr	0.5				feo	5
GZ17-03	L. Wilson					24.43	28.65	Granite											
GZ17-03	L. Wilson					29.65	33.3	Granite											
GZ17-03	L. Wilson					37.47	42.48	Granite											
GZ17-03	L. Wilson					34.44		Trace mal										mal	0.01
GZ17-03	L. Wilson					35.55		Trace mal										mal	0.01
GZ17-03	L. Wilson					38.6		Malachite in vein										mal	0.05
GZ17-03	L. Wilson					38.72		Malachite in vein										mal	0.05
GZ17-03	L. Wilson	42.48	67.43	DIO	Patchy Fe-Oxidized Bt-Hbl Diorite: Interval of diorite (same comp as seen previously), with patchy moderate Fe-oxidation and less oxidized weakly propylitic (trace phyllic overprinting) alteration. Hematite continues to partially replace Py in Qz-Py veinlets and Py stringers, overall not much change from previous interval in terms of mineralization. Pyrite however is observed disseminated in less Fe-Ox zones. Trace Cpy observed intergrown with Py clots in Qz-Carb-Py veinlet within less Fe-Ox zone from 59.44-62.85m. Porphyritic fingers or breccias with fg Chl and Bt groundmass observed within this zone of weak propylitic overprinted by trace phyllic alteration. Minor Ep veinlets occur with haloes of albite(?) or Kspar(?), and have been observed crosscut by Py stringers with Chl selveges (60.69m). Minor sericitization of feldspars in these less oxidized zones. Few dolomite or ankerite veins observed, cherty light orange in appearance, with brittle shearing and infill texture (vuggy teeth with infilled dol). Fine disarticulated undulatory Py stringers observed parallel to CA at 64.30m, up to 1cm in length. Unit gets pretty munged up and clay-altered towards lower contact with Granite finger, with a small 3cm x 3cm window of weak phyllic alteration at the contact (among Fe Oxidation).				Iron	m	propylitic	w	0.5	0			feo	5
GZ17-03	L. Wilson	67.43	73.64	GRA	Biotite Granite: Weakly phyllically-altered medium-grained equigranular Bt granite, with patchy weak Fe-oxidation. Upper contact contains fabric (50CA) of Qz grains, and exhibits minor Fe-oxidation of feldspars and Py-replaced Bt. The granite is primarily weakly phyllically altered from 69.85-73.64m, with abscence of Fe-oxidation at this point onwards. Feldspars exhibit patchy clay and sericite alteration, with disseminated Py throughout. Pyrite also occurs as stringers, with occasional thicker veinlet resulting in more of an ellipsoidal clot (up to 1%). Trace Cpy observed mineralized as stringers within Py stringers, though observed a bit more dendritic as well. Few later cotton-candy pink to peachy coloured Dol veinlets observed across unit. Towards lower contact fg hairline Ep stringer sets are observed weakly brecciating unit, with a light pinkening of feldspars in surrounding area. Feldspars are quite hard, could be albite or K-spar halo?				Phyllic 1	w			1	0				
GZ17-03	L. Wilson	73.64	83.57	DIO	Bt-Hbl Diorite: Transition back into Bt-Hbl diorite, with patchy weak phyllic alteration overprinting weak potassic alteration(?). Across interval, there are zones with increased alteration of phenocrysts to clays and ser (Hbl to light beige-buff coloured clay, feldspars to patchy green ser), with little replacement of primary Bt. However, there are patchy zones across this interval with hairline brown wispy stringers that are likely Bt, which results in a somewhat ragged appearance of primary Bt. Chl is also possibly observed fine-grained with the dark brown stringers, though not nearly as much, and typically in more of concentrations. Trace Ep observed oriented 20CA along a Bt stringer (specifically at 79.58m), with a haloed Qz-Carb veinlet nearby. Halo is sericite and chlorite alteration of surrounding felds and Hbl (respectively), whereas 1cm away from veinlet exhibits beige clay-replacement of Hbls and lesser ser (Phyllic veinlet over potassic Bt?). Minor evidence for Phyllic over both Potassic and (minor) Propylitic, could be spillover of Bt veining from nearby Potassic shell, since there is likely a structural conduit within brecciated zone (see text below). Below veinlet, from 79.62-80.77 is a patch of increased (moderate) phyllic alteration, with what appears to be increased minor veining with a small vein breccia. Silicic vein contains brecciated soft, clay-replaced fragments, and minor clots of Py and Cpy. Dol veinlets observed crosscutting earlier Qz-Carb-Py veins in this small zone. Another zone of increased alteration occurs from 81.90-82.85m, in an area of brecciation and occurrence of a Qz-Carb-Py-Cpy layered vein set. Patchy moderate-strong seritization of feldspars, and clay-alteration occurs in this area, with fine-grained Bt throughout matrix of finely brecciated zone. Qz-Carb-Py-Cpy vein set oriented at 25CA, with a later dol vein running alongside, at 50CA. Pyrite is dark brown, dull and in clots with fine Qz-stringers throughout (looks like a braided channel running through Py), and Cpy occurs as somewhat angular clots. Veinlet occurs nearby as part of dol veining, with creamy opaque vuggy texture and later translucent carb infilling, with Py along outer margins (82.80m). Increased Cpy mineralization through 77.77-83.57m, observed as minor stringers (within Py stringers) and clots in veins (up to 0.4% across subinterval). Possible fault from 82.2-82.82m, with the increased clay alt and minor finely brecciated xtls.				Phyllic 1	w	potassic	w	2	0.2	0.1			
GZ17-03	L. Wilson					77.77	83.57	Zone of increased Cpy mineralization					2	0.4	0.2				
GZ17-03	L. Wilson	83.57	89.55	DIO	Bt-Hbl Diorite: Same diorite as seen previously, though more propylitic alteration observed in this interval than previous, with Chl, Ep and Carb veining observed. Patchy weak magnetism observed, likely due to primary magnetite. Minor patchy Ep alteration of felds (typically associated with Chl-Bt stringers), and both Qz-Ep and Py stringers with Chl selvges observed in this interval. Pyrite stringer observed xcutting Ep-Chl veinlet at 86.05m, and otherwise stringers throughout unit and sometimes observed with a fine-grained Chl halo. Very trace Cpy observed alonside Py in Py stringers. Biotite alteration begins to pick up again towards base of interval.													
GZ17-03	L. Wilson					86.05		Pyrite stringer x-cutting Ep-Chl veinlet											
GZ17-03	L. Wilson	89.55	94.69	DIO	Bt-Hbl Diorite: Alteration-based contact – increased patchy phyllic and texturally destructive Bt alteration observed in this interval. Zone of moderate phyllic alteration surrounding an area of increased Qz-Carb-Py veining from 89.55-90.83m, with dendritic clots and stringers of Py and significant sericitization. Minor gouge observed in this patch of phyllic alteration, with possible fault oriented 40CA at 89.92m. From 90.83 to lower contact at 94.69m, patchy moderate to strongly texturally destructive Bt alteration observed, with minor Sil-Chl-Ser haloes surrounding Py stringers. Biotite is fine-grained, with few feldspar phenos visible, but seems to transition into the stronger alt allowing the texture to remain visible.				Phyllic 1	m	potassic	m						

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GZ17-03	L. Wilson	94.69	117	DIO	Intercalated Bt-Hbl Diorite and Bt Granite: Short intervals of Bt-Hbl diorite and Bt granite, with patchy moderate biotite alteration, overprinted by propylitic and phyllic(?) alteration. Granitic sections include 94.69-96.69m, 106.68-108.71m, 110.38-111.18m, and 115.6-117.03m. Margins between diorite and granite typically sharp, and in one case exhibit a grey fine-grained aplite dikelet coming up along contact from 111.20-111.38m. Biotite stringers through interval, typically occurring in more concentrated patches than homogeneously throughout. Often Bt alteration results in ragged appearance of primary Bt in diorite. Granitic sections typically don't retain much of the brown Bt stringers, but exhibit retrograde alteration of Bt to Chl, with texture similar to that of stringers in more dioritic sections. Minor Ep throughout interval, with some patchy feldspars altering and some Qz-Ep stringers, also observed intergrown with Chl stringers. Pyrite stringers throughout unit with Chl selveges, often xcutting Ep veinlets, and containing minor Cpy. Higher angle Qz-Py veinlets (60-70CA) observed (often with Cpy blebs) with diffuse Sil-Chl selveges across unit, and seen crosscutting a lower angle Py stringer (35CA) at 104.60m. Typically the Qz-Py veinlets (60-70CA) are up to 1cm in thickness and the Py stringers (35CA) are <0.5cm, though both observed to contain Cpy. The veinlets often have the Sil-Chl (fine-grained Chl) selveges, whereas the Py stringers usually only have Chl selveges. Patchy carb alteration, specifically around brecciation due to minor fault from 106.7-107.15m. One vein observed at 99.46m to have 2cm-wide, peachy-coloured selvege with moderate hardness, thought to be a prime example of albite alteration. This veinlet is also crosscut by later carb stringers with entrained Py rafts. A 1cm-wide Qz-Carb base metal vein (30CA) observed at 107.30m, with clots of Py along interior vein wall, and acicular to bladed xtls (greyish-silver) of Asp (or Bismuthinite or Stibnite? Somewhat soft, grey-black streak) growing on inside of Py rind. Some Py observed to be bladed as well – replacing Asp? Cpy and Po clots observed in vein, as well fine-grained dark blue-grey disseminated clots visible again.. Ag Sulphosalts (otherwise molybdenite?). The bladed euhedral Py & Aspy xtls seem to have formed in open space, and was later filled with carb. Cpy observed as clots in veins, in stringers and disseminated associated with Bt grains, overall up to 0.5%. Minor clots of Mo observed in veinlet along with Aspy, Sph, Cpy, the two varieties of Py (finer dull earthy brown and reflective metallic variety) and trace fine-grained Ag sulphosalts at 96.55m, with a later undulating pinky-buff dol veinlet coming along the vein margin. Pyrite occurs as stringers, disseminations, blebs in veins and sometimes clots in wallrock, totalling up to 4% across interval. Pyrrhotite also observed across bench, typically as blebs in veins and is often associated with intergrown Cpy.				Phyllic 1	w	potassic	m	4	0.5	0.2	0	asp	0.03
GZ17-03	L. Wilson					94.69	96.69	Granite											
GZ17-03	L. Wilson					96.55		Minor clots of Mo observed in veinlet along with Aspy, Sph, Cpy, the two varieties of Py (finer dull earthy brown and reflective metallic variety) and trace fine-grained Ag sulphosalts at 96.55m, with a later undulating pinky-buff dol veinlet coming along the vein margin.										
GZ17-03	L. Wilson					99.46		Vein with 2cm-wide, peachy-coloured selvege with moderate hardness, thought to be a prime example of albite alteration										
GZ17-03	L. Wilson					104.6		Qz-Py (60CA) veinlet with Cpy and diffuse Sil-Chl selveges across unit seen crosscutting a lower angle Py stringer (35CA)										

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-03	L. Wilson					107.3		1cm-wide Qz-Carb base metal vein (30CA) observed at 107.30m, with clots of Py along interior vein wall, and acicular to bladed xtls (greyish-silver) of Asp (or Bismuthinite or Stibnite? Somewhat soft, grey-black streak) growing on inside of Py rind. Some Py observed to be bladed as well – replacing Asp? Cpy and Po clots observed in vein, as well fine-grained dark blue-grey disseminated clots visible again.. Ag Sulphosalts (otherwise molybdenite?). The bladed euhedral Py & Aspy xtls seem to have formed in open space, and was later filled with carb.										
GZ17-03	L. Wilson					106.68	108.71	Granite											
GZ17-03	L. Wilson					110.38	111.18	Granite											
GZ17-03	L. Wilson					111.2	111.38	Aplitic Dike											
GZ17-03	L. Wilson					115.6	117.03	Granite											
GZ17-03	L. Wilson	117	147.1	DIO	Bt-Hbl Diorite: Bt-Hbl diorite with moderate biotite alteration overprinted by weak phyllic and patchy moderate carbonate alteration. Biotite alteration similar to previous interval, as patches of hairline brown stringers, with minor retrograde of Bt to Chl (through propylitic alteration). Minor Ep veins & veinlets and Ep-altered feldspar phenos remain in zones of greater Chl-replaced Bt, whereas patches with remaining Bt exhibit less Chl retrograde alteration. The Ep & Chl-replacing Bt suggests propylitic overprinted potassic, and Py stringers crosscutting Ep veinlets suggest phyllic over propylitic. Few ~1m long intervals of moderately carbonate altered diorite, from 124.86-125.44m, 126.50-128.00m and 131.10-132.88m. Texture is somewhat destroyed in these carb-altered intervals, with fine-grained Py disarticulated stringers and carb veins (dol) throughout. Patchy finer grained breccias observed, similar in texture to the magmatic pulses observed earlier in hole and as seen previously in GZ17-01 & 02. Pyrite stringers throughout unit, often exhibiting Py intergrown with Cpy or Cpy mineralized instead of Py, with Chl +/- Sil selveges. Zones of lesser disseminated Py observed, typically in areas with more Ep & less Bt altered areas. Increased Bt alteration (and retrograde Chl) resulted in a brecciated texture of diorite from 138.90-139.50m, with Py disseminated throughout. Two Qz-Carb-Py veins (65CA) observed from 141.45-141.63m to contain clots of the two varieties of Py, intergrown with Cpy, Po and Aspy. These veins are somewhat chaotic with offshoots connecting to each other, otherwise 2-3cm wide, with the mineralization occurring mostly in the centre of the vein. Wallrock surrounding vein set exhibits minor bleaching from sericitization and silicification. Py-Cpy stringers to veinlets continue in this unit, and are typically ~60CA, with less common 15CA stringers observed. Trace clots of Mo observed in Qz-Carb-Py veinlet at 145.30m (30CA), intergrown with Aspy, Py and Cpy. Overall mineralization is still weak across interval, though Cpy occurs in stringers and disseminations up to 0.4%.				Phyllic	1 w	potassic	m	3	0.4	0.2	0	asp	0.03
GZ17-03	L. Wilson	147.1	169.1	DIO	Bt-Hbl Diorite: This light creamy-brown to patchy grey-green unit exhibits moderate patchy phyllic and carbonate alteration, with moderate faulting throughout. Patchy concentrations of biotite stringers are visible in some patches, likely remnant early potassic alteration, though a moderate phyllic and later carbonate overprint have obliterated most Bt. Minor patches of weak phyllically-altered diorite visible, with minor Ep stringers as well. Retrograde chlorite observed, replacing Bt stringers and phenocrysts. Carb altered zones exhibit moderately hard feldspar alteration with effervescence, and are associated with more dol veining. Phyllically altered zones feldspars are pretty well completely gone to green sericite or white clay. Minor Cpy observed across interval, in brecciated vein fragments within fault breccia, as blebs intergrown with Py in Qz-Carb-Py veins, trace disseminations and minor stringers (stringers mostly consisting of Py). Cpy observed replacing Bt and intergrown with Py at 168.60m. Py stringers occur throughout unit, at both low (15-30CA) and moderate (60CA) angles, and appear somewhat chaotic, possibly replacing Bt stringers. Po observed in veinlet with Cpy and Py at 167.74m with Chl selveges. Moderate faulting occurs across interval, from 148.20-148.8m (30-35CA) with patchy smaller faults and brecciations throughout the remainder of interval.				Carbonatem		potassic	w	2	0.3	0.1			
GZ17-03	L. Wilson					124.86	125.44	Moderately carbonate alteration											
GZ17-03	L. Wilson					126.5	128	Moderately carbonate alteration											
GZ17-03	L. Wilson					131.1	132.88	Moderately carbonate alteration											

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GZ17-03	L. Wilson					138.9	139.5	Increased Bt alteration (and retrograde Chl) resulted in a brecciated texture of diorite from 138.90-139.50m, with Py disseminated throughout											
GZ17-03	L. Wilson					141.45	141.63	Two Qz-Carb-Py veins (65CA) observed from 141.45-141.63m to contain clots of the two varieties of Py, intergrown with Cpy, Po and Aspy. These veins are somewhat chaotic with offshoots connecting to each other, otherwise 2-3cm wide, with the mineralization occurring mostly in the centre of the vein. Wallrock surrounding vein set exhibits minor bleaching from sericitization and silicification										
GZ17-03	L. Wilson					145.3		Trace clots of Mo observed in Qz-Carb-Py veinlet at 145.30m (30CA), intergrown with Aspy, Py and Cpy											
GZ17-03	L. Wilson					168.6		Cpy observed replacing Bt and intergrown with Py											
GZ17-03	L. Wilson	169.1	184.4	Fau	Bt-Hbl Diorite in Fault Zone: This interval of dominantly Bt-Hbl diorite is marked by significant faulting and phyllic alteration. A small interval of granite occurs in this unit, from 170.40-174.65m. Pervasive sericitization and clay-alteration of feldspars and mafics present, with strong faulting occurring from 175-175.37m, 176.55-180.16m and 183-184.35m. Zone of faulting contains somewhat healed gouge, brecciation, and rubble. Orientation of fault ranges from 15-60CA with no clear fabric in "sub-healed" gouge. Few small (sub m) patches moderate carbonate alteration, and late light pink and butter yellow dolomite veining observed across interval. Cpy observed as blebs in veins, within trace vein fragments in faulted zone, and trace disseminations. Overall Cpy observed is trace (0.3%), and Py is minor (3%), occurring as stringers, disseminations and clots in veins (mostly brecciated veins in fault zone).					Phyllic 1	m			3	0.3	0.1				
GZ17-03	L. Wilson					170.4	174.65	Granite											
GZ17-03	L. Wilson	184.4	211.4	DIO	Weak Phyllically altered Bt-Hbl Diorite: Dark grey-green interval of Bt-Hbl diorite with weak phyllic alteration overprinting propylitic alteration. Minor patch of moderate carbonate alteration occurs near a set of low angle Qz-Carb-Py veins (15-20CA) near top of interval at 186.9-187.35m, and patches of moderately clay-altered feldspars occur as well, coincident with fractures and faulting. Epidote occurs throughout interval, typically as concentrations around a Qz-Ep veinlet or a fracture, replacing feldspar phenocrysts. Ep veinlets sometimes have Chl selveges, and are often observed split by Qz (Ep on vein walls). Fine-grained Chl occurs throughout unit, giving a blueish-green tinge to the feldspars. Some Ep veinlets have a light pinkish halo (Kspar possibly?), with Py replacing Bt grains in viscinity. Minor faulting observed, from 194.85-196.29m (20CA), 199.05-199.25m (gouge) and 200.03-200.53m (gouge, 50CA), with moderate sericitization of feldspars. Cpy is observed across interval, typically occuring in Py stringers as blebs, with trace observed disseminated. Qz-Carb-Py vein at 186.00m (20CA) is 2cm wide with clots of Py, trace Cpy and Po, as well as fine-grained disseminated Ag sulphosalts. Late pink dol vein of same orientation runs along margin of vein. Another vein of same generation observed at 187.20m with clots of Py, trace Cpy, Po, Ag sulphosalts and Aspy, and is crosscut by late cal veining. Weak patchy magnetism across interval, fine-grained magnetite disseminated. Pyrite occurs up to 2% across unit, primarily as stringers, clots in veins and Bt replacing-disseminations.					Phyllic 1	w	propylitic	m	2	0.3	0.1		asp	0.01
GZ17-03	L. Wilson					186		Qz-Carb-Py vein at 186.00m (20CA) is 2cm wide with clots of Py, trace Cpy and Po, as well as fine-grained disseminated Ag sulphosalts. Late pink dol vein of same orientation runs along margin of vein											

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GZ17-03	L. Wilson					187.2		Another vein of same generation observed at 187.20m with clots of Py, trace Cpy, Po, Ag sulphosalts and Aspy, and is crosscut by late cal veining											
GZ17-03	L. Wilson					189.9	187.35	Minor patch of moderate carbonate alteration occurs near a set of low angle Qz-Carb-Py veins (15-20CA) near top of interval											
GZ17-03	L. Wilson	211.4	234.6	DIO	Patchy Strong Carbonate-altered Bt-Hbl Diorite: Dark grey-green to buff coloured interval exhibits weak phyllic overprint near the upper and lower margins with patchy strong carb-alteration until a pervasively carb-replaced zone occurs from 223.65-229.80m. Moderate to strong fault zone from 219.75-224.50m, with a weak brecciation texture continuing to 222.95m. Zones of strong carb-alteration associated with light pink or milky white dolomite veining. Patches of strongly sericitized feldspars, crumbling and falling apart core in patchier phyllically-altered zones. Minor clots of disseminated magnetite observed in weak phyllically-altered intervals. Cpy observed as trace blebs in Py stringers, and trace disseminations with Py. Overall mineralization seems to have dropped off through this unit (especially through the carbonate-altered interval), with Py closer to 0.5-1%, and trace Cpy. Trace Po observed in Py stringers, typically associated with Cpy (Cpy not necessarily associated with Po however).				Carbonates		Phyllic 1	w	1	0.1	0			
GZ17-03	L. Wilson					223.65	229.8	Pervasive carbonate alteration											
GZ17-03	L. Wilson	234.6	256.8	DIO	Weak Patchy Phyllically-altered Bt-Hbl Diorite: Dark to light grey-green unit, with patchy weak-moderate phyllic alteration overprinting patchy Bt alteration and propylitic alteration. Minor moderately carbonate-altered interval from 251.65-254.20m, with disarticulated pinky-grey chalcedoney-like dolomite veining. This short interval of carb highlights the amount of Qz in the Bt-Hbl diorite, bringing it up to closer to something above 5% - likely a Qz Diorite in this case. The patches of more moderate phyllically-altered diorite have undergone silicification and seritization of phenos, with minor disseminated Py and stringers. Patchy Bt-alteration observed as brown, hairline stringers from 234.55-237.74m, observed with Py stringers cutting through with Ser-Sil haloes. Minor Qz-Ep observed in interval, with blebs of Po, Cpy and pinkened feldspar selveges (Kspar?). Patchy Cpy has begun to pick up again in this interval, observed as stringers, minor disseminations and blebs in veins. Qz-Carb-Py veinlets observed with pink dol veins running alongside at 248.73m and 251.90m, both containing base metal mineralization. Veinlet at 248.73m (40CA) contains blebs of rusty-reddish brown Sph, Cpy, Ag sulphosalts and trace Aspy. Mineralization in veinlet occurs along vein wall, and seems to be later infilled or split by the same dol generation that runs alongside it. Veinlet at 251.96m splits, and occurs at 70CA and 50CA along dol vein. Hexagonal Qz xtls observed in Py clots of Qz-Carb-Py veinlet and Dol vein. Clots of Sph up to 1mm, intergrown with Cpy, Aspy and Mo (and mostly Py) in this veinlet at 251.96m. Lower angle (20CA) Qz-Carb-Py vein observed at 250.95m containing blebs of Cpy and fine-grained Chl selvege, more similar to the other lower angled vein generation than the base metal veins described above. Some Py stringers observed crosscutting black Chl veinlets, and being cut by later dol veinlets at 253.70m. Minor faulting observed from 235.80-235.89m (35CA), 237.86-237.95m (30-50CA) and 238.24-238.27m (50CA).				Phyllic 1	w	potassic	w	2	0.3	0.2	0	sph	0.01
GZ17-03	L. Wilson					234.55	237.74	Patchy Bt-alteration observed as brown, hairline stringers, observed with Py stringers cutting through with Ser-Sil haloes											
GZ17-03	L. Wilson					248.73		Veinlet (40CA) contains blebs of rusty-reddish brown Sph, Cpy, Ag sulphosalts and trace Aspy. Mineralization in veinlet occurs along vein wall, and seems to be later infilled or split by the same dol generation that runs alongside it											
GZ17-03	L. Wilson					250.95		Lower angle (20CA) Qz-Carb-Py vein observed at 250.95m containing blebs of Cpy and fine-grained Chl selvege, more similar to the other lower angled vein generation than the base metal veins described											

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GZ17-03	L. Wilson					251.96		Veinlet splits and occurs at 70CA and 50CA along dol vein. Hexagonal Qz xtls observed in Py clots of Qz-Carb-Py veinlet and Dol vein. Clots of Sph up to 1mm, intergrown with Cpy, Aspy and Mo (and mostly Py)											
GZ17-03	L. Wilson					251.65	254.2	Minor moderately carb-altered interval with disarticulated pinky-grey chalcedony-like dol veining											
GZ17-03	L. Wilson	256.8	273.1	DIO	Lithology: dark grey biotite-hornblende-quartz diorite, as described above. Alteration: Patchy phyllic alteration overprints a predominantly weak propylitic assemblage. Locally, magnetite appears to be replacing mafic sites (may be primary?). Disseminated py+/-cpy replacing mafics Mineralization: dominantly stringer veins of qtz-chl-epi-py (6/m, 60-75 tca) and lesser chl-ser-qtz+/-py (9/m, 40tca)	256.81	264.18	py and cpy finely disseminated (<0.5% total sulfides)	Phyllic 1	w	propylitic	w	0.4	0.2					
GZ17-03	L. Wilson					258.78	258.9	10 cm thick vein of dolomite-quartz-pyr-cpy-aspy (50 tca)											
GZ17-03	L. Wilson					256.81	260.26	stringers of qtz-ser-epi (10/m, 2-5 mm, 55-60 tca), late cal-dolo veins re exposing these											
GZ17-03	L. Wilson					260.92	261	undular vein of qtz-epi-py+/-cpy with chl halo (60 tca, 0.1-1.5cm, 5/m)											
GZ17-03	L. Wilson					260	268.12	stringer veins of chl-cal-pyr+/-epi-ser (6/m, 60-75 tca)											
GZ17-03	L. Wilson					268.12	273.12	Qtz-chl-py+/-epi, cal stringers (9/m, 40 tca) Veins of bio(?)+/-mag-qtz py-cpy and ksp in halo? (1-3cm, 3/m, 15-20 tca) – candidate for stain?											
GZ17-03	L. Wilson					272.14	272.24	15 cm zone of bio(?) stringers with ksp haloes (some retrograde/overprionted by chl-ep?). Bio+/-mag-py-cpy (30tca)											
GZ17-03	L. Wilson	273.1	274.3	DIO	Lithology: same lithology as above, dark grey biotite-hornblende-quartz diorite Alteration: zone has increased biotite content (potassic alteration increase to moderate?). Mineralization: veins of bio(to chl?)-qtz-py+/-cpy-ksp(in halo?) (3-5 cm, 6/m, 70tca) cross-cut by stringers of qtz-ser+/-py.				Propylitic	w	Potassic	m	0.3	0.1					
GZ17-03	L. Wilson	274.3	279.5	DIO	Lithology: same lithology as above, darrk grey biotite-hornblende-quartz diorite Alteration: interval of moderate propylitic overprint over potassic (w) +/- weak qsp patches (near veins). Mineralization:1. qtz-bio-py-cpy+/-po, mo (1-5cm, 6/m, planar, 65 tca). 2a. Cal-qtz-py-po stringers re-exposing qsp veins 2b. Qtz-ser-py (2-5 mm, 2/m, 70-90 tca) 3. late dolo stringers (2-5 mm, 3/m, 30 tca)				Propylitic	m	Potassic	w	0.3	0.1					
GZ17-03	L. Wilson	279.5	286.7	DIO	Lithology: same lithology as above, darrk grey biotite-hornblende-quartz diorite Alteration: dominantly phyllic alteration, texturally destructive in places. Silica and py increases towards end of interval Mineralization: veins of qtz-ser-py+/-aspy (0.1-1cm, 15/m, 70-90 tca) Late dolo-carb+/-py (0.2-1cm, 8/m, 30 tca)				Phyllic 1	s			1.2	0.1		0			
GZ17-03	L. Wilson	286.7	287.6	APL	Lithology:vfg to fg buff tan aplitic dyke, extensively veined and silicified. Alteration:moderate silica flooding Mineralization: veins of qtz-ser-py+/-aspy (0.1-1cm, 15/m, 70-90 tca)				Phyllic 1	m			2.1	0.4					
GZ17-03	L. Wilson	287.6	288.4	DIO	Lithology: zone of fault brecciation, with fragments (angular, 0.5-1.5cm) of aplite, qtz-diorite, and leucocratic granite phase. Cement is dominantly qtz+/-dolomite. Some fragments of qtz-py-ser mineralized veins (fault post-min) Alteration: breccia, flooded with silica/carb Mineralization: fragments of mineralized veins (qtz-py-cpy-aspy)				Phyllic 1	m			2.1	0.4					

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GZ17-03	L. Wilson	288.4	292	DIO	Lithology: Similar to zone above aplite dyke and fault breccia, altered qtz-diorite Alteration: dominant moderate phyllic alteration, overprinting weak potassic(?) Mineralization: 1. qtz-py-cpy+/-chl (1-2 cm, 3/m, 45 tca; chl after bio? +/- ksp halo) 2. ser-chl+/-qtz (stringers, 26/m, 55 tca) 3. carb/dolo (+/-gyp?) (2-5mm, 11/m, 35 tca)				Phyllic 1	m	Potassic	w	0.4	0.1					
GZ17-03	L. Wilson	292	296.6	GRA	Lithology: mg-cg buff tan leucomonzogranite/granite. Qtz phenos (45%) are coarser (0.5-1.2cm) than in the diorite phase. Fsp is finer grained (Ksp phenos are 0.1-0.4 cm, 25%; plag laths are 5-8mm, ~30%). Crystals are subrounded to euhedral. Igneous fabric in granite is 50—55 tca (xtal alignment). Alteration: weakly phyllic alteration (py+qtz > ser) Mineralization: 1.qtz (banded?)-py-cpy+/-mo planar (0.5cm, 5/m, 20 tca) 2.qtz-ser+/-py (planar, 0.1-0.3cm, 3/m, 60-80 tca) 3. dolo/carb (planar, 0.1-0.5cm, 7/m, 35tca) + disseminated minor py, aspy, mo +/-cpy (replacing mafic sites)				Phyllic 1	w			0.7	0.2		0		asp	0.2
GZ17-03	L. Wilson	296.6	308.3	DIO	Lithology: ~12 m interval of qtz-diorite Alteration: strong to intense clay rich alteration (phyllic?). Fsps completely replaced by clay and carb, some remnant qtz, and mafic sites (bio+hbl) partial replacement by mica/clay/sulfides (py+/-cpy). Mineralization: 1.qtz-py-cpy+/-mo stringers (localized concentrations of 20/m, 40 tca) 2.qtz(grey)-ser-chl+/-py-ep (planar, 0.1-1cm, 3/m, 25tca) 3. dolo/carb (planar, 0.1-0.2cm, 17/m, 60-80 tca) + disseminated minor py+/-cpy (+replacing mafic sites)	306.6	306.7	qtz vein with ser(?)/chl selvage hosting cpy-py	Phyllic 1	s			1.5	0.4		0			
GZ17-03	L. Wilson	308.3	313.9	DIO	Lithology: heavily altered interval of qtz-diorite with extensive veining. Primary textures are preserved only sparsely and away from veining. Alteration: Mafic sites are replaced by ser and rest of rock is extensively silicified. Mineralization: 1. qtz-pyr+/-cpy, mo, aspy (5-10 mm, 4/m, 50 tca) 2. carb-qtz-sph+/-mo, cpy (5-10 mm, 3/m, 50 tca) exposes selvage of above vein) 3. dolo/carb (planar, 1-7cm, 4/m, 50-90 tca) + disseminated minor py+/-mo, cpy (+replacing mafic sites)				Phyllic 1	m			2.4	0.5		0.1		asp	0.3
GZ17-03	L. Wilson	313.9	314.5	DIO	Lithology: Primary lithologyis qtz-diorite as above (with similar alteration and mineralization as above). Zone is a brittle fault(?) breccia with dyklets of qtz-fsp porphyry also caught up in breccia. Alteration: silicification as fault cement Mineralization: 1. brecciating qtz vein (qtz/carb selvage, qtz+ angular fragments, 2-3mm, in infill). Fragments of qtz-vein, diorite, qfp, and sulfides (py+/-cpy); 15-30 tca, 1-2 cm, 6/m) 2. cross-cutting qtz vein/bx is cal/carb+/- py bx veins, 0.5-1cm, 15 tca, 5/m. Thicker interval below appears cemented by these same assemblages. They run parallel to veins above.				Phyllic 1	m			0.8	0.2		0			
GZ17-03	L. Wilson	314.5	315.7	DIO	Lithology: heavily altered interval of qtz-diorite with extensive veining. Primary textures are preserved only sparsely and away from veining. Alteration: Moderate phyllic alteration. Most fsps replaced by ser, locally there is quartz flooding, leaving a rounded-clast-appearance to the preserved rock (some spots with more silica than surroundings). Mineralization: 1. qtz-py+/-mo-cpy (undulose, 0.5cm, 2/m, 25tca) +/- a bleached halo? 2. qtz-pyr+/-ser-chl (planar, 1-5mm, 4/m, 20-40 tca) 3. late carb-cal (irregular, 1-5cm, 5/m, 60-90 tca)				Phyllic 1	m			0.5	0		0			
GZ17-03	L. Wilson	315.7	323.9	BRX	Lithology:Interval of highly fractured polymictic breccia unit with a number of overprinting tectonic-hydrothermal breccia events. The rock as a whole is mostly clast-supported with rock flour matrix (60% of matrix/cement) and amorphous silica cement (40%). Clasts are 0.1-15 cm wide, subangular to subrounded and vary in composition from qtz-fsp xtals (from granite/diorite, 60% of clasts), qtz-fsp-porphyry clasts (25%), to sulfideds and vein fragments (10%) and fragments of silica cement within the rockflour matrix (post dates, ~5%). The rock-flr dominanted breccia may be a separate fault event (cataclasite?gouge) which cuts a hydrothermal breccia and is post late carb veins. (therefore the bx order is: 1. silica cemented (+/-py-cpy in cement) hydrothermal breccia, 2. late carb/cal veins infill breccia/re-brecciate and create angular, irrgeular vuggy lode veins (~20 tca), 3. tectonic cataclatic breccia (~20 tca) with a rock-flour dominant matrix. Alteration: silica is dominant alteration mineral due to nature of cementing fluids. Mineralization: most sulfides are from clasts among the overprinting breccia unit, cement and matrix to fault doesn't appear as well mineralized as clasts. Pyr >>cpy. Veins in clasts are qtz-py+/-cpy, mo (1-3mm, 5/m). and the late carb brecciating veins cross-cut first bx (5-10 cm, 20 tca, 3/m).				Silica	w			2.4	0.5		0			
GZ17-03	L. Wilson	323.9	328.2	GRA	Lithology: interval of mg-cg leucocratic granitic phase. Alteration: .weak phyllic alteration (fsp gone to green ser) Mineralization: 1. brecciating SiO2 veins (undulose, shallow), simialr to cement of hbx above? 2. qtz-pyr-ser+/-chl (stringers, 8/m, 60 tca) 3. late carb-cal (1-3mm, 2/m, 40 tca, re-exposing qsp veins) +minor disseminated py and cpy, mo				Phyllic 1	w			0.3	0		0			
GZ17-03	L. Wilson	328.2	329.4	DIO	Lithology: passes contact with a more dioritic phase, although the alteration is very similar to above. Alteration:.weak phyllic alteration (ser>qtz) Mineralization: 1. qtz-py-cpy (planar, 2-5mm, 3/m, 35 tca) 2.ser+/-qtz-py (wavy stringers, 4/m, 60 tca) 3. late carb-chl (wavy 1-3mm, 2/m, 10 tca) +minor disseminated py				Phyllic 1	w			0.6	0.2					
GZ17-03	L. Wilson	329.4	346.5	DIO	Lithology: mg bio-hbl-qtz diorite with mafic (bio-rich) enclaves (autoliths?) +/- primary mag? Alteration:.weakly propylitic to sodic calcic with an interval of weak to moderate phyllic @ 337.66-338.71. Mineralization: 1. qtz-py-cpy (planar, 1-5mm, 10/m, 45 tca) 2.qtz-epi+/-chl with alb halo(?) (anastamosing 0.1-0.5cm, 4/m, 40 tca) 3. late carb-chl (<1mm, 5/m, 25 tca) +minor disseminated py +/-cpy (+mafic replacment)	337.66	338.71	phyllic vein with halo	Propylitic	m			2.4	0.6					

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-03	L. Wilson	346.5	348.9	DIO	Lithology: mg bio-hbl-qtz diorite Alteration:.weak to moderate phyllic alteration overprinting a weak silica alteration(?). Primary textures are preserved and qtz-flooding only occurs locally near associated veins (brecciating SiO2). Away from these zones, phyllic is dominant with hbl-bio replaced by tan clays and fsps altered to green-white sericite Mineralization: 1. qtz-py+/-cpy (thin, planar, 1-2mm, 70 tca, 8/m) 2. amorphous qtz-brecciating veins (banded on selvages)+/- py, cpy, mo, aspy(?). Planar, 20-10cm, 2/m, 50 tca). 3. ser-qtz+/-py, chl (stringers to planar, 9/m, 25-30 tca) +minor disseminated py	347.55	348.09	zone of SiO2 bx/thicker vein with py, cpy +/-mo, aspy(?)	Phyllic 1	w	Silica	w	0.9	0.1		0	asp	0.01
GZ17-03	L. Wilson	348.9	356	DIO	Lithology: mg bio-hbl-qtz diorite Alteration:.patchy phyllic overprint over a weak to moderate sodic-calcic(?) assemblage. Most primary textures are intact, vein and vein haloes provide alteration. Mafic sites are partially to wholly replaced by sulfides, chl, clay/mica (beige to brown). Fsps locally replaced by ser, elsewhere to alb. Mineralization: 1. chl stringers (after bio?) with mafic-replacement haloes (2mm, 2/m, 30 tca) 2. chl-epi-qtz with alb halo (1-2 cm, 4/m, 60 tca) 3. qtz-ser-chl-py (stringers, 2-3mm, 30 tca, locally 10/m) +minor disseminated py	350.5	351.65	phyllic patch	Phyllic 1	w	Potassic	w	0.7	0.1				
GZ17-03	L. Wilson					355.09	355.98	stockwork chl(after bio?) veinlets with alb in halo (or ksp?).											
GZ17-03	L. Wilson					352.44	352.45	thick qtz vein, amorphous SiO2 brecciating, contains fragments +/- py, cpy											
GZ17-03	L. Wilson	356	357.4	GRA	Lithology: mg-cg granitic phase, same unit as described above Alteration:.weak to moderate phyllic overprint where SiO2>ser (localized quartz flooding and feldspar replaced partially to wholly by green ser). Mineralization: 1. qtz-py+/-cpy (with ser in halo?), stringers, 15/m, 45 tca +minor disseminated py + cpy				Phyllic 1	w			0.5	0.1				
GZ17-03	L. Wilson	357.4	365.7	DIO	Lithology: mg bio-hbl-qtz diorite Alteration:.same alteration assemblage as above granite unit; patchy phyllic overprinting a weak to moderate sodic-calcic(?) assemblage. Most primary textures are intact, vein and vein haloes provide alteration. Mafic sites are partially to wholly replaced by sulfides, chl, clay/mica (beige to brown). Fsps locally replaced by ser, elsewhere to alb. Mineralization: 1. qtz-chl-py +/- cpy stringers with chl halo (chl after bio?). 2-3mm, 2/m, 30 tca. 2. cal-chl-py+/-cpy. 1-2cm, 1/m, 20 tca (sulfides may be entrained?) 3/4. ser-py-chl +/- qtz (planar, part of shear vein @359.24m). 5cm, 0.5/m, 50 tca. 3/4. dolomite-carb. 1Cm, 3/m, 50 tca. Selvage of chl-ser-py(?) +disseminated and partial mafic replacement py throughout				Phyllic 1	w	Potassic	w	0.5	0.1				
GZ17-03	L. Wilson	365.7	392.7	GRA	Lithology: mg-cg granitic phase, same unit as described above Alteration:.variable weak to moderate SiO2 alteration with phyllic overprint (weak to moderate). Texturally preserved, fsps replaced by ser where phyllic alteration occurs. Finer grained aplitic phases (approx 20cm wide) crosscut at various depths. Mineralization: 1. qtz-py+/-cpy,mo (0.2-1cm, 8/m, 30 tca) 2. ser-py+/-qtz (stringers, 3/m, 30 tca) 3. dolo-carb (planar, 0.5cm, 0.5/m, 35-40 tca) +disseminated py + cpy (1/5 of sulfides)	366.76	366.86	~20cm wide aplitic phase	Phyllic 1	m	Silica	w	0.9	0.1	0.1	0		
GZ17-03	L. Wilson					370.66	370.67	SiO2 flooding? Aplitic phase?											
GZ17-03	L. Wilson					377.95	379.7	phyllic increases and granite is finer grained (aplite phase?)											
GZ17-03	L. Wilson	392.7	394.3	HFL	Lithology: xenolith of YTT bio-schist(?), very hornfelsed and little primary/metamorphic texture is still visible. Interval is well mineralized with sulfides. Biotite pophyroblasts from hornfelsing are all partially replaced by sulfides as well. Alteration:.hornfels is primary alteration with small biotite(?) pophyroblasts throuhgout interval. These are somewhat soft, dark brown flecks and are concentrated near veins and partially replaced by sulfides. Mineralization: disseminated py+/-cpy (+reddish-brown sulfide?). Veins increase in density and sulfide con. 1. py-cpy-anh (?soft, transluscent grey-pink, no HClfizz after powdering), planar, 1cm, 55 tca 2. qtz-py-po-cpy(+Fe-carb). Planar to open space fill (qtz-euhedral growth, py forms colliform clots?). 0.1-1cm, 15/m, 15-20 tca. 3. qtz-ser-py stringers, 1-2mm, 5/m, 10-20 tca.				Phyllic 1	w			3.2	0.4	0.4	0		
GZ17-03	L. Wilson	394.3	399.6	GRA	Lithology: mg-cg granitic phase, same unit as described above Alteration:.variable weak to moderate SiO2 alteration with phyllic overprint (weak to moderate). Texturally preserved, fsps replaced by ser where phyllic alteration occurs. Finer grained aplitic phases (5-10cm wide) crosscutting at various depths. Mineralization: 1. qtz-py+/-cpy,mo (undulose, 0.2-0.5cm, 2/m, 40 tca) 2. ser-py-qtz w qtz-ser halo (planar, 1-2mm, 3-5mm, 10/m, 50 tca) 3. chl-ser+/-carb (irregular, 1mm, 3/m, 15 tca) +disseminated py +/- cpy				Phyllic 1	m	Silica	w	0.5	0	0			
GZ17-03	L. Wilson	399.6	402.8	GRA	Lithology: mg-cg granitic phase, same unit as described above Alteration:magnetite and sulfides replace mafic sites in granite (hbl?bio?) and red stained feldspar replaces fsps (ksp?), could be a poorly mineralized moderate potassic alteration? Sampled for ksp stain Mineralization: veins are uncommon in this interval, sulfides replacing mafics represent most min. 1. planar qtz-po-py+/-cpy (2-5mm, 3/m, 40 tca)						Potassic	m	0.3	0.1	0.2			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-03	L. Wilson	402.8	407.8	GRA	Lithology: mg-cg leucocratic granite phase, same unit as described above. Locally, there is dykes of fine grained aplitic phase (~20cm cutting @20 tca @407.32) Alteration: entire interval appears weakly bleached granite with spotty weak phyllic overprint in places (some fsp->ser/clays). Most other fsp either preserved or replaced by relatively hard milky white fsp (alb?) or partially to epidote. Nearly all mafic sites have been replaced by sulfides +/- green-blue bladed mineral (act? Mica?). Possible that the weak phyllic is overprinting a moderate sodic-calcic assemblage. Mineralization: Disseminated sulfide mineralization and mafic site replacement of py, cpy, mo. Some grain intersections show asterick shaped sulfide assemblages (f.g. Py +/- cpy?). vn. 1. qtz-py-cpy-mo+/-Bi(?) with alb (from ksp?) halo. Planar, 3-5mm, 3/m, 30-40 tca. 2a. Ser-py (brecciating? Ser replacing epi?) with alb halo. Planar, 0.5-1cm, 2/m, 65tca 2b. Py-cpy+/-qtz stringers, 7/m, 20-30 tca.				Phyllic	1 w			0.8	0.2		0.1			
GZ17-03	L. Wilson	407.8	412.1	HFL	Lithology: xenolith of YTT bio-schist(?), could be an andesitic dyke? Check chemistry.... Alteration: hornfels is primary alteration with stronger bleaching occurring 80cm to 1m away from contacts. Mineralization: weakly mineralized 1. qtz-ser-py+/-cpy with bleached halo (planar, ~2.5mm, 2/m, 60tca) 2. chl-ser+/- py (stringers, 4/m, 20tca) 3. cal-carb (planar, 3/m, 1-2mm, 20tca)				Phyllic	1 w			0.3	0					
GZ17-03	L. Wilson	412.1	414.7	GRA	Lithology: Granite, as described above with finer grained aplitic phases. Slightly finer grained and crowded with feldspar phenocrysts (fsp>qtz) towards bottom of contact. Bottom is intrusive contact (granite intruding diorite) and so this is likely a margin effect. Alteration: weak to moderate phyllic alteration. Feldspars replaced by clay/sericite with minor quartz in groundmass. Mineralization: 1. qtz-py+/-cpy stringers (3mm, 3/m, 35tca) 2. ser-chl +/-qtz,py stringers, 3/m, 10tca 3. siliceous (amorphous quartz) crack-seal brecciating vein with clasts of vein re-incorporated. Planar, 5cm, 35tca, 0.5/m				Phyllic	1 w			0.5	0					
GZ17-03	L. Wilson	414.7	416.3	DIO	Lithology: mg grey qtz-diorite, as described above. 15-20cm after contact above is an alteration halo from granite intrusive with ser/clays replacing fsps and partly the hbl-bio. Small sub-intervals of differing mineral proportions through the diorite. Alteration: weak phyllic overprinting a weak to moderate propylitic assemblage. (qsp veins and ser-rich zones, whole rock has chl+/-epi alt'n with py). Mineralization: 1. qtz-chl+/-epi,py,cpy(?) (clustered planar, ~2-3mm, 10/m, 50tca) 2. qtz-py+/-ser (stringers, 6/m, 70tca) 3. cal-carb (stringer planar, 0.5/m, 30tca) +Partial mafic site replacement by sulfides (pyr>>cpy)	415.75	415.95	dyke(?)/late phase with increased mafic content, fsps throughout make it appear porphyritic.	Phyllic	1 w	propylitic	m	0.5	0					
GZ17-03	L. Wilson					416.3	417.67	possible biotite rich xenolith?											
GZ17-03	L. Wilson	416.3	417.7	QFP	Lithology: short dyke with subtle contact (35-45 tca) of crowded qtz-fsp-porphyry (QFP-2). Phenocrysts (~70%) of euhedral feldspar (alkali fsp) and subhedral quartz+bio(replaced by sulfides), disseminated sulfides throughout. Phenocrysts of feldspar are medium grained (3-10mm), groundmass (30%) is fine grained plag+/-qtz and sulfides/mafics. Qtz diorite porphyry (comagmatic with diorite or granite?). Alteration: weak phyllic overprinting a weak SiO2 alteration(?). Groundmass appears silicified (could be primary) and patches of phyllic alteration replace feldspars with sericite and mafics partially by pyrite. Mineralization: Disseminated po, py, +/-cpy throughout. 1. qtz-py+/-cpy with qtz halo (2-3mm, 3/m, planar, 60tca) 2. qtz-py+/-ser (stringers, 8/m, 50tca)				Phyllic	1 w	Silica	w	0.5	0	0.3				
GZ17-03	L. Wilson	417.7	434.2	DIO	Lithology: Interval of hbl-bio diorite as described above, but this interval appears more magnetic; mag forms with mafics (primary?) but there is also po replacing biotite. Alteration: weak to moderate propylitic alteration throughout this interval with 1-2 phyllic veins. Mafics mostly intact, partly replaced by po, py, chl +/- mag. Mineralization: Mostly in the form of mafic-replacement sulfides (po>py>cpy). 1. qtz-py+/-cpy stringers (3/m, 55tca) 2. epi-qtz with albite halo (planar, 3mm, 5/m, 65tca) 3. qtz-ser-py (stringers, 2/m, 25tca)	424.75	424.9	interval of very-biotite rich (lamprophyre?) with few coarse hbl and fsp phenocrysts (xenocrysts?). Some biotite replaced by sulfides (py>po), weak magnetism.	Propylitic	m			0.5	0	1				
GZ17-03	L. Wilson					430.39	431	phyllic vein with a xenolith of YTT.											
GZ17-03	L. Wilson	434.2	436.4	GRA	Lithology: Heavily altered granitic phase (silica??). Alteration: Silica altered(?), interconnected quartz channels occurring with sulfides. Mineralization: Most sulfides disseminated in silica groundmass and replacing mafics (py>po>cpy). 1. chl stringers, 3/m, 80 tca. 2. late cal-carb stringers, 5/m, 40 tca				Silica	m			0.4	0	0.1				
GZ17-03	L. Wilson	436.4	440.6	DIO	Lithology: Diorite as described in earlier intervals with moderate magnetism (primary mag+/- po replacement?). Alteration: weak propylitic (chl-mag-py+/-epi-alb) with local sodic calcic veins (qtz-epi with alb halo). Mineralization: Most sulfides occur as mafic site replacement (py>po) +/- disseminations. 1. qtz-py+/-cpy (planar, 1-2mm, 3/m, 60 tca) 2. qtz-ep+/-py+alb halo (planar, 3-5mm, 2/m, 25tca) 3. qtz-ser-py (planar, 1-2cm, 0.5/m, 50tca)				Propylitic	w			0.7	0	0.3				
GZ17-03	L. Wilson	440.6	445.3	GRA	Lithology: altered leucogranite phase as described above. Alteration: weak propylitic overprint (a phyllic assemblage locally?). Mafic sites are mostly replaced with magnetite, po+/-chl. Feldspars partially sericitized +/-epi (sausseritized). Mineralization: mafic replacement sees po, mag, py +/- cpy sparsely throughout rock. 1. qtz-py-po+/-cpy (planar, 1mm, 5/m, 25tca) 2. qtz-epi+/-chl (planar, 2mm, 3/m, 55tca) 3. ser-py+/-qtz (stringers, 8/m, 20tca)				Propylitic	w			1.1	0	0.5				

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-03	L. Wilson	445.3	462.8	DIO	Lithology: hbl-bio-qtz diorite (+/-mag) with a weak igneous fabic (mineral alignment) and mafic enclaves (5-10cm) throughout. Mag appears to be primary although po replaces some mafic sites making the interval seem more magnetic. Alteration: Rock is texturally preserved with a weak propylitic assemblage throuhgout with chl replacing some mafic sites. Veins of qtz-epi occur locally with alb haloes, but they are unmineralized. Po and pyrite replace mafic sites partially throughout. Mineralization: Pyrite and po replace (partially) mafic sites across the interval. An increased amount and respective thickness of qtz-py with chl halo veins alos appear in this interval. 1. qtz-py with chl halo (3.5/m, 3-6mm, planar, 30-50tca) 2. qtz-epi with alb halo (1-1.5cm, planar, 0.5/m, 55tca) 3. qtz-py-cpy+/-mo, cal(?) with SiO2 halo (~1cm, planar, 0.2/m, 65tca; occurs at 457.11m, 452.53m). +towards bottom few m, qtz-ser+/-py with sericite mafic replacements in halo (stringers, 6/m, 15-20 tca).	452.53	453.63	qtz-py-cpy+/-mo, cal(?) with SiO2 halo (~1cm, planar, 0.2/m, 65tca)	Propylitic	w			1.6	0	0.4	0			
GZ17-03	L. Wilson					457.11	457.21	qtz-py-cpy+/-mo, cal(?) with SiO2 halo (~1cm, planar, 0.2/m, 65tca)											
GZ17-03	L. Wilson	462.8	466.5	GRA	Lithology: interval of mg-cg leucogranite phase, as described above. Contact with diorite is heavily altered and somewhat veined, but a xenolith of DIO @463.02 and 465.3m indicate the DIO pre-dates the granite. Alteration: Although primary textures are preserved, the granite feldspars are replaced by sericite and the rock is extensively veined (moderate phyllic alteration). Diorite xenoliths incorporate much more sericite while granite becomes silicified, locally. Mineralization: 1. Qtz(amorphous, banded to brecciating)-py+/-po,cpy,mo. Undular to planar, 2-3cm, 0.5/m, 55tca. 2. qtz-ser+/-py. Planar, 0.2-1cm, 15-20/m, 45-70tca.	463.02	463.12	diorite xenolith	Phyllic 1	m			2.7	0	0.3	0			
GZ17-03	L. Wilson					465.12	465.42	diorite xenolith											
GZ17-03	L. Wilson	466.5	470.3	DIO	Lithology: mg bio-hbl-qtz diorite, weakly to non-magnetic (loses primary magnetite and po alt'n? Or mag replaced?). Interval has biotite rich mafic enclaves as well as xenoliths (almost completely assimilated) of YTT. Alteration: Chl stringers and replacements occur throughout interval and epi-qtz veins, moderate propylitic background. A weak to moderate phyllic overprint sees sericite replacing mafic sites in vein haloes and more pervasive near top and bottom contacts. Mineralization: minor sulfide (py>>po) replacement of mafic sites throughout. 1a. Qtz-epi+/-chl, py with epi-alb in halo (~0.1-1cm, planar, 4/m, 35 tca) 1b. Chl stringers, 8/m, 50 tca. 2a. Sericite stringers (5/m, 10-15 tca) 2b. Qtz-py+/-cpy (0.5/m, planar, 3mm, 60 tca)				Phyllic 1	w	propylitic	m	0.5	0	0				
GZ17-03	L. Wilson	470.3	477.9	Metamorphic	Lithology: Interval of heavily hornfelsed YTT gneiss/schist(?). Foliation preserved @45 tca. Although altered throughout, S1 appears to have biotite rich and felsic (qtz-fsp) rich layering. Veining exposes the S1 fabric as well as cross-cuts foliation. Felsic layers (0.3-1.3cm, pink-grey to grey, qtz+fsp and micas). Mafic layers (1-3cm, dark brown to grey, biotite rich, heavily altered/hornfelsed). Alteration: Dominantly moderate hornfels, although a weak to moderate phyllic overprint is present where ser-qtz veins are located. Layers in interval are locally distorted by pervasive qtz flooding and or ser alteration. Mineralization: py+/-cpy,mo disseminated through the interval where alteration increases. 1. Qtz-py+/-fsp(?),cpy,mo (planar, 1-3cm, 3/m, x-cut S1 @ 60tca and follows along @ 45tca). This may form pegmatite-like segregations between layers locally with qtz-fsp intergrowths and bulk qtz cores. 2. Py-qtz+/-cpy (stringers to 0.1cm, planar to undulose, 10/m, 40-70 or parallel to foliation). 3. Late ser stringers (3-5/m, 45 tca).				Phyllic 1	w			4.5	0.5		0.1			
GZ17-03	L. Wilson	477.9	482.8	QFP	Lithology: Crowded andesitic qtz-fsp porphyry, similar in character to dyke described above (416.3-417.67) with more disseminated sulfides. Contacts are ~60 tca. 30-50cm into porphyry from each side, groundmass appears more dominant and SiO2 more prevalent (chill margins). In centre of dyke, phenocrysts (60-70%) of subhedral to euhedral fsp (1-20mm, 80% of phenos), subhedral to rounded qtz (1-3mm, 15% of phenos), and biotite (1-3mm, ~5%). Most biotite either partly or wholly replaced by sulfides (py>cpy). Alteration: weak phyllic overprint, converting feldspars to sericite-clay and silica in groundmass (+py replacement in mafic sites). Mineralization: Disseminated/mafic-replacement sulfides pervasive in this interval (py>cpy) +/-veins: 1. qtz-py+/-ser (stringers, 5/m, 40tca) 2. qtz-py+/-cal (1cm, planar, 0.5/m, 65tca)				Phyllic 1	w			1.2	0.3		0			
GZ17-03	L. Wilson	482.8	486.8	Metamorphic	Lithology: Interval of heavily hornfelsed YTT gneiss/schist(?) similar to that described above. Foliation appears to have biotite rich and felsic (qtz-fsp) rich layering.Felsic layers (0.3-1.3cm, pink-grey to grey, qtz+fsp and micas). Mafic layers (1-3cm, dark brown to grey, biotite rich, heavily altered/hornfelsed). Qtz-fsp pegmatite layers expose foliation planes and distort surrounding foliation (peg. Post metamorphic). Alteration: Dominantly moderate hornfels, although a weak phyllic overprint is present where ser-qtz veins are located. Mineralization: minor disseminated py among HFL pophyroblasts. 1. qtz-py-cpy+/-mo,fsp(->ser). Planar to undulose, follows S1 or ~40tca, 0.1-5cm, 6/m). 2. qtz-py+/-ser (stringers, 40-70 tca, 5/m) 3. Dolo-carb+/-py (1cm, planar, 1/m, 20tca)	482.81	483.11	Qtz-fsp pegmatite	Phyllic 1	w			2	0.1		0.1			
GZ17-03	L. Wilson					483.76	484.26	Qtz-fsp pegmatite											
GZ17-03	L. Wilson					485.27	485.47	Qtz-fsp pegmatite											
GZ17-03	L. Wilson	486.8	488.2	DIO	Lithology: Interval of hbl-bio diorite, as described above. Alteration: Moderate phyllic overprint, almost all fsp goes to sericite and mafic sites to a reddish brown mica or to chlorite (ser-chl phyllic?). Pyrite commonly replaces mafic sites as well. Mineralization: Pyrite most common sulfide here, both mRep and in veins 1. qtz +/-ser-chl (stringer to 1cm, 10/m, 50-60tca). 2. late cal-carb (stringers, 10-15 tca, 2/m)				Phyllic 1	m			2	0					

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
GZ17-03	L. Wilson	488.2	489.8	GRA	Lithology: Leucocratic granitic phase as described above. Alteration: weak to moderate phyllic overprint (fsps to ser), diffuse boundaries with grains and more silicified near contacts. Mineralization: occurs in veins: 1. qtz-py+/-cpy (planar, 1-3cm, 1/m, 30-45) 2. py-ser stringers (5/m, 30tca)				Phyllic 1	m			0.9	0.1		0.1			
GZ17-03	L. Wilson	489.8	491	DIO	Lithology: Silica altered biotite-hornblende-quartz-diorite, described above. Original textures still remain but rock appears slightly more bleached and hardened by silica flooding. Alteration: weak phyllic overprint (mafics gone to sericite near veins). Prior to this overprint, the interval appears to have undergone silica saturation related to amorphous, brecciating quartz veins. Mineralization: minor sulfides replacing mafics, but most mineralizationr elated to veining. 1. thick quartz (amorpous qtz, brecciating)-py-cpy+/-mo, carb +lode precipitation os a silver-bronze coloured metallic sulfide, hard (>6-7), fracture surfaces irregular to concoidal (difficult to determine). This is located @490.89. 2. qtz-py+/-ser stringers, 10/m, 10-20tca.				Phyllic 1	w	Silica	w	1.8	0.1		0.1			1
GZ17-03	L. Wilson	491	496.8	DIO	Lithology: Diorite, as above, with primary magnetite returning (+/-po replacement) Alteration: Propylitic overprint, locally there is potassic alteration (~492.33-493.28) where mafic sites are replaced by brown biotite (ragged, in vein haloes) and the rest of ther interval appears slightly silicified. Mineralization: 1. qtz with very fine aggregations of blueish-red sulfide, could be brn?? + halo of bio+/-ksp (sampled for staining @492.88). Planar, 0.5/m, 65tca) 2. qtz-py+/-cpy (1-5mm, wavy, 5/m, 30tca).				Propylitic	w	Potassic	w	1.6	0.3	0.2	0	bor	0.01
RVD17-01	D. LeFort	0	4.57	NRC	no core recovered (casing) – overburden														
RVD17-01	D. LeFort	4.57	18.05	GRA	Biotite-Granite: Med-Coarse grain anhedral-subhedral Qtz, Feldspar with minor megacrysts of feldspar (often oikocrysts enclosing smaller subhedral crystals). Biotite occurs as mm-sized anhedral to euhedral crystals. Core is very broken and weathered making textures and mineralization difficult to describe, core is often rubble for this unit. Mineralization/Veining/Alteration: Veins are moderately to very weathered/altered to fe-oxide, replacing primary mineralization and destroying primary textures. Most feldspars show clay alteration, in many cases they exhibit a rusty-brown colour from Fe-Oxides. Some pinkening of feldspars is observed as envelopes to veins (which have been subsequently weathered). Biotite is often altered to chlorite. Up to 3m mm thick stringers are observed throughout the unit but have been intensely weathered to Fe-Oxides. Structures: Due to the rubble-like nature of there core structures are difficult to determine, core appears to have broken along joints and weathered veins. This unit is most likely sub-crop.				Iron	s							FEO	20
RVD17-01	D. LeFort	18.05	23.71	QFP	Quartz – Feldspar Porphyry: Feldspar-phyric texture with a aphanitic grey-green groundmass. Feldspar crystals are anhedral to euhedral. Low Qtz content, 5-10% of phenocrysts, small 2mm infrequent xtals observed. Most phenocrysts are ~2mm, but sometimes reach up to ~5mm. Rare zoned mega-cryst was observed with sulfide inclusions in the rim. Small <mm sized mafic (Hbl; Dark-Green to Black) crystals are observed throughout the unit. They are anhedral and are heterogeneously distributed throughout the unit (i.e. Some sections are barren of mafic minerals). Mineralization: Pyrrhotite (weakly magnetic) is observed throughout the unit. Po occurs as amorphous 1-2mm blebs disseminated in the groundmass. Trace Cpy? was observed occurring as a disseminated bleb in the groundmass. Veining/Alteration: A high degree of weathering to Fe-Oxides within the veins/fractures, destroying primary mineralization and textures, and a distinct rust-coloured staining is observed as envelopes (up to several centimetres thick). The intact portions of core with little fracturing or veining shows weak alteration of feldspars to clays. Structures: The majority of the core is broken making identification of individual structures difficult. The amount of fracturing and weathering may indicate jointing occurring close to surface.				Iron	s	Phyllic	w			1		FEO	15
RVD17-01	D. LeFort					22		Po and Tr Cpy, disseminated											
RVD17-01	D. LeFort					22.5		Zoned Feldspar Megacryst with sulfide inclusions, host in more mafic portion of unit.											
RVD17-01	D. LeFort	23.71	59.1	GRA	Biotite-Granite: Med-Coarse grain anhedral-subhedral Qtz and feldspar crystals with minor megacrysts of feldspar (often oikocrysts enclosing smaller subhedral crystals). Biotite occurs as mm-sized anhedral to euhedral crystals. Small quantities of Hbl are observed throughout the unit. Several xenoliths are observed throughout the unit, the size of xenocrysts increases with depth from 5-10cm to ~15-20cm. The xenoliths are dark-green/black and tend to exhibit porphyritic texture. Mineralization: Py (+/- Qtz) stringers/veinlets are present throughout this unit. They are <mm to 2mm wide and usually oriented 45 deg tca or greater. The veinlets appear discontinuous is some cases, giving Py a blebby or disseminated appearance. Disseminated Py is found on the broken ends of the core. There are two variants of Py observed in a veinlet a shiny-creamy brass and a darker dull brown (Py vs Marcasite?). There is one case of a Py-Hem (?) veinlet cross cutting a blebby Py veinlet. Veining: There are stringers of a dark mineral (Chl-Qtz) throughout the unit, the stringers are mostly oriented 45 deg tca or greater, they are wispy and commonly anastomosing Late-stage calcite-carbonate stringers/veinlets occur throughout the unit. They are usually ~1mm (up to 1cm) and are typically 45 deg tca, some cal-carb veins remain intact in highly altered/weather parts of the unit. Alteration: Biotites commonly altered to chlorite, overall weak sericitic alteration of feldspars (locally moderate alteration seen around veining). Intense iron alteration of rock from 30.36 to 38.10m (sublith description). Iron alteration is less common with depth but does occur in localized sections along joints (?). Clay-Fe-oxide alteration is present on joint surfaces. Structures: A fault zone was observed in the weathered sublith from 36.58 to 36.79m.				Iron	Weak-mc	Phyllic	w	0.1				FEO	10

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RVD17-01	D. LeFort					30.36	38.1	Biotite-Granite: Highly (intense) iron altered (some sections weak-moderate) interval, feldspars are commonly altered completely to clays/Fe-Oxides leaving remnant crystals of Qtz/Plag (?), textures of feldspars are destroyed in these parts of highly altered core.	Iron	I	Phyllic	w	0					FEO	35
RVD17-01	D. LeFort	59.1	59.69	AND	Mafic Porphyritic Dyke: Feldspar-phyric dyke with matrix supported subhedral to euhedral feldspar crystals (minor qtz?) with a dark-grey groundmass. Some clasts show rounding due to milling(?) Mt. Nansen Andesite? Mineralization: Very fine-grained Py disseminated at the base of the unit. Veining: Anastomosing veinlets of calcite, 30-45 deg tca. Alteration: Iron alteration (clay-Fe-Oxides) occur along fractures. Weak phyllic alteration, seritization of feldspar crystals. Structure: Sharp upper and lower contacts, no chill margin observed.					Iron	W	Phyllic	w	0					Feo	1
RVD17-01	D. LeFort	59.69	87.39	GRA	Biotite-Granite: Med-Coarse grain, grey, grey-green, anhedral to subhedral Qtz and feldspar crystals. The amounts of Qtz seem to vary throughout the unit, may be Qtz Monzonite composition in some intervals. The granite is mostly equigranular but contains minor feldspar megacrysts which gives a porphyritic texture in some intervals. Some of the feldspars display ophitic texture, which enclose small subhedral grains of other feldspars. In one case a mega-cryst contains inclusions of sulfides (may be overprinting). The granite has varying amounts of biotite and hornblende (15-40% and 5-10%, respectively). Biotite occurs as mm-sized anhedral to euhedral crystals. There is a variation from biotite-rich intervals (giving it a darker, melanocratic appearance) to less biotite-rich intervals (mesocratic). Biotite is often altered to chlorite. Patches of biotite have a purple-hue which may be indication of potassic alteration. Rounded 3-10 cm sized xenoliths observed, they commonly contain Po. Mineralization: Pyrrhotite mineralization occurs in veins and veinlets throughout this unit. Qtz-Po veins that are 1.5 to 3 cm thick and host clots of angular grains of Po (with trace quantities of Cpy?), Po grains are up to 3cm. Veins are oriented 30 to 90 deg tca. Qtz in the veins is cloudy-grey to milky-white. A Cpy stringer appears to branch off the main vein into the granite (apophysis), the Cpy is very fine-grained. Minor stringers of Qtz-Po +/- Py are present and are usually ~1mm thick, they are usually oriented 0-45 deg tca, but vary greatly. In one case a stringer oriented parallel to the core axis is cut by a 3cm Qtz-Po vein which is perpendicular to core axis. Po also appears to be disseminated throughout the core as small <mm sized grains, these are probably due to discontinuous or diffuse Qtz-Po stringers. There are abundant diffuse and discontinuous Po stringers through the unit which give it an appearance that the Po is disseminated (as when looking at broken ends of core down core axis). Chalcopyrite occurs in trace amounts in stringers with Po as very small irregular or sometimes lens-like grains. Py-Qtz stringers occur throughout the unit, Py is fine grained and can also be associated with Po and trace Cpy. In several cases pyrite stringers form lenses. Po and Cpy mineralization tends to decrease with depth, stringers of Py often occurring as lenses are still common with increasing depth. Rare crystals of magnetite (fine-grained Po?) were observed near the base of the unit. Alteration: Early Potassic alteration (?) purple-ish wispy stringers may be biotite, associated with Chl stringers-veinlets (65-70m). Biotite crystals have a purple-hue over this interval (65-70m) Weak phyllic alteration throughout, feldspars are moderately altered to clays in the halos along some veinlets (small scale alteration, total thickness of veins and alteration is up to 3cm). Some altered veinlets contain carbonates, clays and whitish-yellow-green waxy mineral (gypsum). Veins containing the waxy mineral (gypsum?) increase with depth. The majority of these alteration veins are~45 deg tca, but can vary. Sections of unit have a greenish colour from phyllic alteration of feldspars to clays. Veining: Anastomosing stringers (<mm) of a black-purple (biotite- chlorite?) occur throughout the unit, common from 65 to 70m, the veins are irregular and discontinuous and tend to cluster in the intervals of granite with more biotite. Rare calcite stringers, ~1mm thick, 45 deg tca. Structures: 1.5cm Po-Qtz vein 45 deg tca, 63.14 to 63.27m, 3cm Qtz-Po 90 deg tca, sharp contact with granite. Qtz-Po-Py veins and Chl stringers occur from 67.77 to 67.99.					Phyllic	W	Potassic	w	1	0	1.5				
RVD17-01	D. LeFort					65	70	Dark wispy stringers-veinlets of dark-purple mineral (Biotite alteration), associated with Chl-Py stringers and veinlets.	Potassic										
RVD17-01	D. LeFort					67.9		A Qtz-Py-Po vein is observed at 67.90m and is oriented @ 25 deg tca, the vein is irregular and has offshoots of smaller veinlets from a core vein. The vein also and has several anastomosing Chl stringers associated with it.											
RVD17-01	D. LeFort					70.9		A Po-Py-Qtz veinlet, Po and Py clots up to 3m long and euhedral cubes of Py (mm sized).											
RVD17-01	D. LeFort																		

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RVD17-01	D. LeFort	87.39	108.6	GRA	Biotite-Granite: Similar to above unit but is characterized by more phyllic alteration, silicification, less Cpy-Po mineralization and less brecciated zones. Med-Coarse grain anhedral-subhedral Qtz and Feldspars crystals, mega-crystic texture not observed. Feldspars altered to green-grey clays and biotite alters to chl? Giving the rock an overall light green, green-grey colour. Biotite concentration varies, but tends to decrease with depth. Mineralization: The type of Cpy-Po mineralization of the unit above is not recognized in this unit. Veins of Qtz-Py can reach up to 4cm thick. The Qtz can vary from milky-white to dark-grey. Some of these veins are associated with brecciated core. Py occurs as blebs, lenses, angular clots and can show framboidal texture in the thicker veins. Thin mm sized Py +/-Qtz +/- late carbonate stringers-veinlets occur throughout the unit. These often form lenses of Py with a thick centre and tapered ends. Veining: Well defined crystals (druzy) of Calcite-carbonate occur in 3 to 6cm thick veins ranging from 45 to 60 deg tca. Qtz veins tend to increase with depth along with silicification, they range in thickness (up to several cm thick), orientation (25-45 deg tca) and mineralization (barren, all quartz to Py mineralization). Alteration: Phyllic alteration increases in this unit to weak-moderate and feldspars are often locally altered to clay-sericite in halos around fractures, up to ~25cm thick. Silicification increases with depth in this unit, from absent at the top to weak-moderate at the bottom. Silicification occurs as veins and replacement of primary minerals by Qtz. Structures: This unit shows an increase in the amount of faulting and brecciation than in units above. Breccia and fault zones are characterized by rounded to angular clasts of vein or host rock material surrounded by a grey-green clay-carbonate infill/gouge. In some cases these zones are destroyed due to drilling and only a fine-grained clay-carbonate gouge remains. In one relatively competent breccia angular clasts of grey, crypto-crystalline quartz (Chert? Chalcedony).				Phyllic	M	Silicic	w	1.5						
RVD17-01	D. LeFort					95.15		~1cm Py-Chl veinlet was observed with angular clots of Py (~0.5cm thick) and massive, very dark green Chl											
RVD17-01	D. LeFort					98.1		~2cm dolomite vein with Py selvages was observed (selvages were several mm thick).											
RVD17-01	D. LeFort	108.6	123.4	GRA	Biotite-Granite: This unit is characterized by intercalated intervals of strongly silicified and moderate phyllic altered granite. Mineralization: Py exhibits fracture infilling texture associated with a 4cm thick dark grey Qtz vein. The Py occurs along the margin of the vein and forms irregular offshoots into the host rock where it surrounds what look like clasts created from the emplacement of the vein. Alteration: The silicified portions of this unit occur as 0.5 to 1m thick intervals of massive quartz which replaced the original granite, destroying the original texture of the granite. The zones often look like very think quartz veins but some textural aspects of the granite are preserved. Feldspars are mostly altered to yellow-green, mica-clay minerals throughout the phyllic altered unit and display white clay alteration minerals along fractures as seen in previous units. The texture of the granite is still recognizable in the phyllic-altered units. The phyllic intervals are cut by abundant irregular, bifurcating, anastomosing Qtz veinlets and veins (mm to cm thick) in various orientations, they can occur in series oriented at ~45 deg tca. The Qtz veins/veinlets give a chaotic appearance to the intervals and obscure the texture in many cases. The silicic event overprints the phyllic alteration. Veining: A 3cm wide Qtz vein displays clear-grey euhedral crystals growing perpendicular to vein wall with a massive white-pink Qtz filling in the void. Structures: The unit is also characterized by several beautiful brecciated zones with typically angular clasts of an early vein assemblage (still intact at the margins of the breccia) that was destroyed by a later event leaving a soft, grey-green, carbonate-clay matrix. Zones are clast to matrix supported. The clasts are often rimmed with a thin <1mm layer of white-pinkish Qtz-Carb. The lower contact of this unit shows a 30cm zone of altered granite, the textures in the contact are still recognizable, the groundmass is a dark-green chlorite zone with crystals of altered feldspars throughout. The contact with the basal unit is sharp.				silicic	s	phyllic	M	0		0				
RVD17-01	D. LeFort					119.3		Fine-grained Po - Py occurs as very fine grains which appear to be oriented with dark stringers of Chl (?) These are located in a relatively unaltered portion of the unit.											
RVD17-01	D. LeFort	123.4	159.4	GRA	Biotite-Granite: Typical granite observed in this hole. Med-Coarse grain anhedral-subhedral Qtz and feldspar crystals, mega-crystic texture is found throughout, giving a porphyritic texture is some sections. Mega-crysts of feldspars appear to be zoned in some cases and can include small (mm sized) crystals, ophitic texture. Xenocrysts are included throughout the unit, which range from 5-15cm and often host magnetite. Mineralization: Po mineralization increases with depth. Po often occurs in diffuse stringers/veinlets which are difficult to see in core, Po crystals are easily observed by looking down the core axis at broken ends of core. Po crystals up to 5mm are associated with stringers and veinlets. In some cases Po occurs as broken lenses in wider sections of stringers (up to 3mm). Trace Cpy? In a single case was observed occur with Po. Py typically occurs as stringers throughout the core, but also occurs as clots and framboids in an irregular Qtz-Py vein. Py-Cal veins are shallow (5 deg tca) or irregular and host cubes of Py. Veining: Carbonate veinlets throughout the unit, late-stage, <5mm. Minor dark stringers (Chl or Qtz with disseminated Py?) are observed throughout the core. Alteration: Phyllic is weak throughout the unit, with feldspars altering to mica-clays. A single 7mm grain of Ep was observed in the unit. Increased alteration within the 30m of the basal contact with QFP, feldspars alter to green mica-clay. Structures: The unit is very competent and has few noticeable structural components such as faults or breccia.				phyllic	W	propylitic	w	0.5		0.5			mag	0.005
RVD17-01	D. LeFort					148.36		Irregular clot of Py, fracture-infilling, with Qtz											

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RVD17-01	D. LeFort	159.4	163.8	QFP	QFP: Porphyritic texture observed throughout. Yellow - white phenocrysts of subhedral to euhedral feldspars are hosted in a fine-grained groundmass. Quartz crystals are infrequent, and make up a minor part of the unit. Feldspar crystals are mm to up to 1.5cm and some are rounded. A darker (glassy) chill margin is observed at the upper contact of the unit. Mineralization: Qtz veins +/- Py are present, they are usually high angle 75 deg tca, are up to 5mm thick. These veins both cut and are crosscut by dark, wispy stringers described below. Veining: Dark, wispy, irregular and often discontinuous stringers are present throughout the unit (averaging ~45 deg tca). These stringers are often dendritic and cut across feldspar phenocrysts. Alteration: Phenocrysts are commonly altered to mica-clay. A single feldspar grain is altered to a dark green mica. Structures: No major structures observed, a microfault.				phyllic	W			1	0.1	2				
RVD17-01	D. LeFort	163.8	182.2	GRA	Biotite-Granite: Typical granite observed in this hole. Med-Coarse grain anhedral-subhedral Qtz, Felds, mega-crysts are rare in this unit. Biotite crystals often exhibit a brown vitreous lustre (phlogopite?) Xenoliths are included throughout the unit, which can be up to 35cm, often host magnetite and are usually rounded. The granite becomes finer grained (sugary texture) towards the lower contact, has a light lilac colour and biotite crystals appear to be aligned, which gives a layering effect in zones of higher quantities of biotite. Mineralization: Po often occurs in diffuse stringers/veinlets which are difficult to see in core, Po crystals are easily observed by looking down the core axis at broken ends of core. Po crystals are <5mm are associated with stringers and veinlets. Trace Cpy in a single case was observed occurring with Po when looking down core axis. Py typically occurs as Py +/- Qtz +/- Chl stringers throughout the core, the veins stringers are usually <1mm and occur in various orientations. Veining: Qtz-Ep+/- Chl veins are present. They are mm to ~3cm thick, they vary in orientation but are usually oriented ~45 deg tca and in some cases are associated with anastomosing Chl stringers (dark, wispy stringers seen throughout previous granite units. The Qtz-Ep+/-Chl veins often occur in series separated by several cm and exhibiting similar orientation. Alteration: Phyllic is weak throughout the unit, with feldspars altering to mica-clays. Qtz-Ep and Chl stringers are present indicating weak propylitic alteration. Structures: The unit is very competent and has few noticeable structural components.				phyllic	W	Propylitic w		1.5	0	2				
RVD17-01	D. LeFort	182.2	184.6	QFP	QFP: Fine-grained (sugary texture) med-green dyke with very rare, isolated phenocrysts of feldspar, euhedral ~1.5cm. The dyke appears to host xenoliths of altered granite? the xenoliths are moderately phyllic altered with feldspars altered to greenish mica-clays. The unit has a gradational lower contact with granite. The unit contains blades of altered an altered mineral with a tan brown colour. Mineralization: A 6cm thick poly-mineralic Qtz vein is observed in this unit containing visible gold (?), Cpy, Sph, Py and Stb or Ars (?) at 183.76m. The large Qtz vein appears to be associated with other smaller Qtz +/- Chl vein generations. Associated with these veins is Py which occurs in patches, mm to ~cm thick. Py also appears to be hosted within the dyke groundmass adjacent to the poly-mineralic Qtz vein. Py occurs as mm to 2cm sized clots that do not appear to be associated with the vein. Veining: Rare Carb stringers are observed in this unit, they are discontinuous and shallow dipping. Alteration: Xenoliths of granite exhibit moderate phyllic alteration, with feldspars altering to a greenish Mica-Clay, texture is still preserved. Structures: The dyke is characterized by a fault zone near the upper contact with the granite. The fault zone has fault gouge at the upper and lower margins. The fault zone hosts Carb-Qtz veins in the healed portions and a soft, grey clay mineral in the fault gouge.				phyllic	W			3	2			sphal, !		1
RVD17-01	D. LeFort					183.76		A 1mm rounded grain of VG (?) VG hosted in silver-blue mineral (Stib? Arsenopyrite). Cpy occurs as mm to cm sized space-filling texture and patchy clots. Cpy commonly surrounds Qtz fragments. Cpy is often alloyed with Py. Py is associated with Cpy as space-filling/creeping texture grains. Sphalerite is associated with Qtz vein as well, occurring in a 2.5cm clump of sub-hedral grains, a smaller 1cm Sph patch is observed host in the Qtz vein and occurring with a vuggy milky-white Qtz portion of the vein. A small (8mm) crystal of Stibnite (?) is observed also in the vein, this mineral hosts the vg.									
RVD17-01	D. LeFort	184.6	224.4	GRA	Biotite-Granite: Similar granite observed throughout hole. Med-Coarse grain anhedral-subhedral Qtz and feldspar crystals, minor mega-crysts of feldspar observed sometimes hosting crystals of biotite. Biotite crystals often exhibit a brown vitreous lustre (phlogopite?). Xenoliths are included throughout the unit, which can be up to 10cm, often host magnetite and are usually rounded. Weak phyllic alteration throughout, rare localized alteration of feldspars to mica-clays. The upper contact of the unit is gradational (melanocratic to mesocratic), texture of the granite is still recognizable. The lower contact is characterized by 50cm of moderately altered granite, feldspars altering to mica-clay minerals. Mineralization: Po often occurs in diffuse stringers/veinlets which are difficult to see in core, Po crystals are easily observed by looking down the core axis at broken ends of core. Py+/- Chl stringers can be sheeted (75 deg tca). Py crystals are usually anhedral-amorphous but they can occur as cubes that are <3mm . Py also occurs in thicker (~1.5cm) Qtz+/- Py veins, usually steeply dipping or parallel tca, one Qtz-Py vein contains a small 1mm bleb of Stib?. Veining: Qtz-Ep+/- Chl veins range from mm to ~1cm thick and from 10 to 60 deg tca. Alteration: Phyllic is weak throughout the unit, with feldspars altering to mica-clays. Rare Ep-Chl veins present, weakly propylitic. Structures: No major structures occur in this unit.				Phyllic	W	Propylitic w		1.5		1		Stib	0.001	

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-01	D. LeFort	224.4	225.7	QFP?	QFP? Porphyritic Dyke: Feldspar-phyric dyke with matrix supported subhedral to euhedral feldspar crystals, some crystals are rounded, minor rounded Qtz eyes. With a dark-grey groundmass. Mineralization: Very fine-grained Po occurring as disseminated blebs throughout the unit. Veining: Anastomosing stringers of calcite, 45+ deg tca. Alteration: Weak phyllic alteration, seritization of feldspar crystals. Structure: Gradational upper contact over ~5cm, relic texture of the upper unit. Sharp lower contact.				Phyllic	W					1			
RVD17-01	D. LeFort	225.7	230.6	GRA	Biotite-Granite: Same characteristics as previous granite unit. Med-Coarse grain anhedral-subhedral Qtz and feldspar crystals, minor mega-crysts of feldspar observed sometimes hosting crystals of biotite. Biotite crystals often exhibit a brown vitreous lustre (phlogopite?). Xenoliths are included throughout the unit, which can be up to 10cm, often host magnetite and are usually rounded. Weak phyllic alteration throughout, rare localized alteration of Feldspars to mica-clays. Mineralization: Po often occurs in diffuse stringers/veinlets which are difficult to see in core, Po crystals are easily observed by looking down the core axis at broken ends of core. Py+/- Chl stringers occur in series with similar orientation (75 deg tca), this explains why Py-Po is visible when looking down core axis. Py crystals are usually anhedral-amorphous but they can occur as cubes that are <3mm . Py also occurs in thicker (~1.5cm) Qtz+/- Py veins. Veining: Qtz-Ep+/- Chl veins range from mm to ~1cm thick and from 10 to 60 deg tca. Alteration: Phyllic is weak throughout the unit, with feldspars altering to mica-clays. Structures: No major structures occur in this unit.				Phyllic	W	Propylitic w		1.5		1.5			
RVD17-01	D. LeFort	230.6	231.4	QFP?	QFP? Porphyritic Dyke: Feldspar-phyric dyke with matrix supported subhedral to euhedral feldspar crystals, some crystals are rounded, less phenocrysts and finer-grained than previous dyke, no Qtz eyes. With a dark-grey groundmass, with a glassy upper portion (few phenocrysts). Mineralization: Very fine grained Po occurring as disseminated blebs/patches throughout the unit. Blebs/patches are ~1mm. Veining: Anastomosing stringers of calcite, 15 to ~45 deg tca. Alteration: Weak phyllic alteration, seritization of feldspar crystals. Structure: sharp upper and lower contacts.				phyllic	W					1.5			
RVD17-01	D. LeFort	231.4	295.2	GRA	Biotite-Granite: Similar granite observed throughout hole. Med-Coarse grain anhedral-subhedral Qtz and feldspars, mega-crysts of feldspar observed, sometimes hosting crystals of biotite (ophitic texture). Biotite crystals often exhibit a brown vitreous lustre (phlogopite?). Xenoliths are included throughout the unit, which can be up to 10cm, often host magnetite (Po?) and are usually rounded. Weak phyllic alteration throughout, rare localized alteration of Feldspars to mica-clays. The upper and lower contacts are sharp. Mineralization: Cpy+/-Po+/- Py+/-Qtz veinlets, Cpy and Po as ~1-2mm elongated grained along the margins of the veins. The veins are irregular and tend to cluster, they are wispy and often are sheeted. Po often occurs in diffuse stringers/veinlets which are difficult to see in core, Po crystals are easily observed by looking down the core axis at broken ends of core. Py+/- Chl stringers occur in series with similar orientation usually high angle, often visible when looking down core axis. Veining: Qtz-Ep+/- Chl veins are 15 to 45 deg tca <1cm thick, sometimes discontinuous. Dark wispy, anastomosing, discontinuous stringers of Chl throughout, locally can be abundant. Dark wispy stringers of Chl can dilate into cm sized blocky sections. In sections where these cluster the rock can appear quite dark. Carb-Py veinlets are observed in core, Py-Qtz veins cut by later Carb-Py veinlets. A Minor ~1cm barren quartz veins usually at high angle tca throughout. Alteration: Phyllic is weak throughout the unit, with feldspars altering to mica-clays, can be moderately altered along in sections/fractures, with a white to green colour, ~3-5 cm wide halos of altered feldspars are observed along fracture. A zone described in the sublith shows moderate alteration throughout. Structures: No major structures are observed in this unit.				phyllic	W	Propylitic w		1.5	1	1.5			
RVD17-01	D. LeFort					239.8		6cm thick Qtz-Carb-Py vein has 1.5cm wide anhedral crystals of Py, some as clots and tapered veins.											
RVD17-01	D. LeFort					244	285	Cpy+/-Po+/- Py+/-Qtz veinlets occur throughout the unit (@ 244.8m, 246.2, 248.41, 257.56, 257.92, 273.97, 283.46, 284.33, and Cpy-Stib? @ 289.20m)											
RVD17-01	D. LeFort					264.25	264.79	A half metre section of the unit which is light to dark green, fine-grained with some remnant granitic texture (faint), the unit appears to be altered to a soft green mineral (chl?). It has a gradational upper contact where some granitic texture is recognizable and a sharp lower contact going back into a locally metacystic, weakly altered granite. The subunit has 2 Py veins ~1-2 cm thick, one of which has Carb selvages.	phyllic	M								
RVD17-01	D. LeFort					276	276.47	This half metre subunit is a coarse grained granite with abundant dark xenoliths (10 over half a metre, 2-10cm wide)	phyllic	W								

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RVD17-01	D. LeFort					287.05	295	This 6-metre subunit is characterized by a higher and more continuous degree of alteration that in previous units. Phyllic altered granite with feldspars altered to white to greenish-blue (resembles sea glass). Some ~30cm of weakly altered granite persist in the subunit. Common Qtz, Qtz-Ep, and Carb veins usually oriented 30-60 deg tca, Carb are late-stage cutting Qtz veins, one banded Qtz (chal, chert) vein, some carb veins are discontinuous.	phyllic	M									
RVD17-01	D. LeFort	295.2	298.7	BX	Breccia-Fault zone: This unit is a 3-metre wide breccia-fault zone with an orientation of 45 deg tca (foliated appearance), sulfide mineralization throughout. The unit is characterized by common fault gouging and angular, dark-grey altered clasts of granite with a white-pink Qtz (Chalcedony)-Dol infill, providing a relatively competent unit punctuated by smaller fault zones/gouge. Mineralization: Cpy can occur as disseminated blebs as well as veinlets. Blebs of Cpy (~5mm) occur disseminated within the brecciated and healed zones. Cpy also forms diffuse linear (~1mm) clots, that appear to be part of 45 deg tca veinlets. Py occurs also in similar stringers as Cpy. Some Py occurs as ~1mm sized blebs hosted within dark-grey clast. Some mineralization is associated with the post-breccia Qtz infilling. Veining: White-pink Qtz veins compose the breccia matrix, they surround mm to cm sized clasts. Most veins are irregular and discontinuous, some possibly brecciated themselves. Some veins are continuous and occur in series. Structures: This unit has a faulted (fault gouge) upper contact and small fault zones throughout.									2	2				
RVD17-01	D. LeFort					296.15	296.3	Py occurs as common disseminated clots.											
RVD17-01	D. LeFort	298.7	315.4	GRA	Altered Granite: Biotite Granite bleached and moderately altered (phyllic, argillic?) cut by common up to 5 cm thick Qtz-Dol veins and small fault zones with gouge. Original megacrystic granite texture preserved, with feldspars altered to white to light brown grey to light green clay-micas. Mineralization: A single bleb of Cpy (2mm) was observed just above the lowest fault zone in this unit. Minor irregular veinlets of Py-Qtz crosscutting. Some small disseminated Py in brecciated zones. Veining: Qtz-Dol veins are present throughout. They can form irregular, discontinuous, anastomosing (sometimes vuggy) stringers and veinlets with varying orientations. Some veins are 5-6cm thick and contain clasts of brecciated material. Others have cm thick qtz selvages with Dol in the centre. Some vein-veinlets have banded qtz (white-pink). Alteration: Often bleached, Qtz crystals cloudy grey, Plag cloudy white, flds light brown. Megacrysts alerted to white clay minerals. The appearance of silicic alteration in some parts but scratches easily. Structures: The unit is characterized by common small fault zones with fault gouge and a larger fault zone at the lower contact. This unit may be associated with the breccia-fault zone of the unit above.							phyllic	M	argillic?	w	2	0.5				
RVD17-01	D. LeFort	315.4	327.2	GRA	Granite: Medium grained granite, with rare feldspar megacrysts. Biotite grain size and abundance varies moderately throughout the unit. Mineralization: Cpy occurs as <1mm to 2mm sized blebs within Cpy+Qtz+/- Py+/-Po veinlets. In some cases the Cpy is hosted adjacent to the veinlet (with diffuse or irregular boundaries) and has irregular-space-filling texture, and is alloyed with Py grains, Cpy is easily seen with the naked eye. But mostly as small (<1mm) clots within Qtz veinlets. The amount of Cpy observed is consistent throughout the unit. Py occurs as small diffuse stringers Veining: Abundant Qtz veins occur throughout the upper half of the unit. They are usually barren, typically oriented <45 deg tca and are sheeted. One vein is 4cm thick and is cross cut by later sheeted Qtz-Py stringers.. It is very soft. Alteration: The upper (1.5m) contact of this unit shows weak-moderate phyllic alteration. Feldspars altered to white - light green clay-micas. The unit shows less pervasive alteration away from the upper contact, with typical weakly altered patches around fractures or veins.							Phyllic 1	W			2	1				
RVD17-01	D. LeFort					318.9		Granophyre											
RVD17-01	D. LeFort					324.85		A banded (comb texture) Dol vein (irregular thickness 1mm to 1 cm thick, 70-80 deg tca) and a dark grey Qtz vein (Chal, chert, ~1cm thick, irregular plane) occur next to each other and overlap.											
RVD17-01	D. LeFort					326.82		A dark green dilated bleb with darker tapered ends occurs at 326.82m											
RVD17-01	D. LeFort					327.15		Granophyre											

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RVD17-01	D. LeFort	327.2	369.6	DIA	Diatreme: Grey-green medium grained porphyritic (borderline seriate texture) rock with sub to euhedral white-grey to light green crystals (1-5mm) of feldspars, and common rounded to subangular translucent-grey Qtz crystals (Qtz "eyes"). The porphyry is phenocryst-rich with little matrix between each crystal. Common euhedral poikilitic megacrysts are up to 2.5cm, are euhedral, and commonly zoned (plagioclase). Megacrysts are an off white colour and commonly host inclusions of sulfides (Cpy and Mo). The groundmass is fine-grained and grey to grey-green. The upper contact is a short gradation change in textures from the granite above (over 30 cm). The upper contact is highlighted by a <1mm stringer of Cpy. Purplish biotite? is observed at the contact and may mark potassic alteration. Small (~1mm) white-silver, micaceous, hexagonal crystals are observed throughout the unit. Mineralization: Cpy occurs throughout the unit. It occurs commonly as disseminated blebs, round to angular, amoeba-like, up to 5mm wide. The disseminated blebs are often alloyed with Po. Cpy+/-Po+/-Py+/-Qtz stringers/veinlets are found throughout. Sheeted Cpy-Qtz veinlets are present and oriented at 60-65 deg tca. A Qtz-Cpy-Py veinlet (1mm) with Qtz selvages is observed. Several sheeted Cpy-Qtz (clear-grey) stringers are enveloped by a milky-white Qtz vein with flecks of Mo. Cpy in the thicker veinlets (~1cm) tends to show a space-filling texture with irregular branching, but also occur as subrounded slightly elongated clots. The veinlets are oriented 45-65 deg tca and can also host Py. Mo is present in the unit, occurring as small (usually <1mm) blebs or specks. Most require hand lens to see. Mo can also occur as 1-2mm blebs in Qtz+/- Cpy veins. Smeared Mo can be observed by looking down core axis from broken sections. Stringers of Mo+/-Qtz+/-Py are present. Small discontinuous, wispy strings of Mo are also present, usually clustered together, ~1cm long, <1mm thick. Po is present as rounded to subangular, sometimes elongated blebs up to 5mm wide. Some blebs of Po have thin <mm lenses on the margin (a partial rind of Cpy on one side). A stringer of Po-Carb that is ~1mm and oriented at 45 deg tca was observed. Py occurs often as wispy, irregular, series (sheeted) of stringers, which are truncated by granophyric sections (? some stringers appear to be continuous across granophyre, truncation a result of rheology of granophyre. Veining: Barren Qtz veins (possibly early alteration) which bifurcate at ~65 deg to each other are crosscut by sheeted clay stringers. Some Carb-Qtz stringers are observed in this unit however, they are rare, usually ~1mm wide. Rare clay stringers with a grey-blue clay infill. A ~5mm medium-grey clay vein is oriented ~50 deg tca. Alteration: Purple -tinged biotite may be due to early potassic alteration, weak, confined to the upper contact. Ep veins veins present, occasional isolated grains present throughout the unit, weak propylitic. Weak phyllic alteration overall with increased alteration in local patches. Feldspars are altered to a light, grey green clay mineral. Some fractured veinlets show a halo of phyllically altered feldspars. Structures: No major structures are observed in this unit. Minor fault gouge.				phyllic	W	Potassic	w	0.5	3	1	1			
RVD17-01	D. LeFort					330.21		A 1.5cm Qtz-Dol-Cpy vein with comb layering/euhedral Qtz crystals (1-2mm) in the selvages (Qtz-Dol infilling), is cut by a smaller Qtz-Cpy vein (3mm wide), the smaller vein may be an offshoot of the larger vein (apophysis in a joint, smaller vein is truncated). The truncated veins have a 12cm fine-grained buffer around them (off centre, thicker below).											
RVD17-01	D. LeFort					334	334.5	Common Po blebs between 334.00 – 334.50m.											
RVD17-01	D. LeFort					343	348	A decrease in disseminated Cpy-Po in this interval											
RVD17-01	D. LeFort					365.15	365.21	Wispy purple-brown biotite-Qtz, associated with Cpy											

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RVD17-01	D. LeFort	369.6	396.7	GRA	Granite-Granodiorite: Medium grained granite (less feldspar than in granites above, may be granodiorite), with rare feldspar megacrysts, zoned, poikilitic with chadacrysts of sulfides (Mo, Cpy). Biotite grain size and abundance varies moderately throughout the unit. The unit displays granophyric texture in several localized sections. The upper contact shows a sharp textural change from the overlying diatreme. The lower contact is sharp but irregular with minor sulfide mineralization occurring along the boundary. The boundaries both are associated with silicified zones. Just below the upper contact there is biotite veining truncated by a Qtz-rich zone. Just above the lower contact a silicified fine-grained-aplitic textured Qtz rich zone is present. The Qtz rich zone contains small flecks-blebs of Mo. The unit contains dark, usually rounded enclaves that contain abundant disseminated Po+/- Cpy. These enclaves are typically less than 10cm and rarely cut across the full diameter of the core. The enclaves are often cut by Qtz-Cpy stringers/veinlets. Mineralization: Cpy occurs throughout this unit as irregular blocky, angular clots and irregular space-filling/interstitial texture and often alloyed with Po and Mo. This type of mineralization is observed throughout. Grains tend to exhibit hydraulic fracture infilling texture and are up to ~3cm and commonly polymineralic (Cpy-Po-Mo). Within the first metre of the upper contact poly metallic alteration is present. A soft (drill striations), silver-blue to silver-pink reflective mineral is associated with Cpy-Po mineralization near the upper contact. The mineral displays similar texture styles to the Cpy and Po that it is associated with. Cpy is also disseminated throughout as rounded to subangular blebs (up to 5mm) and commonly alloying with Po or Mo. Cpy+/-Py+/-Qtz stringers/veinlets are observed throughout the unit, in rare cases Qtz-Cpy stringers are cut by Cpy-Qtz-Dol stringers. Mo is present as disseminated round to irregular blebs, often elongated with the appear of wispy discontinuous stringers. The amount of Mo seems to increase towards the lower contact. Disseminated Mo usually occurs as <1mm irregular, amoeba-like blebs. Disseminated Mo occurs as small blebs (<1mm), elongated grains alloyed with Po +/- Cpy, and as wispy, very discontinuous stringers. Clusters of the wispy, discontinuous occurrences of Mo are present and give an appearance of a brecciated zone with Mo (+/-Cpy+/-Po) filling between the grains. Mo also occurs along the rim of an aphanitic Qtz enclave (~5cm) in the granite. The Mo rim is <mm wide and ~1.5 cm long. Po occurs throughout the unit often alloyed with Cpy and/or Mo. Po can occur as round to angular disseminated blebs, as blocky, angular, irregular clots which display fracture infilling texture. Stringers of only Po+Qtz are rare throughout the unit, occurring more commonly as stringers with Cpy+/-Mo. Py often occurs in the manner as the angular, irregular, blocky clots of Po in the unit. Py tends to increase with depth. An may rim angular clots of Po. Alteration: The unit is characterized by patchy localized late weak phyllic alteration. Feldspars are altered to white to light-green to green mica-clay minerals. A few grains of Ep (?) were observed. More intense alteration was observed around fracture and veins: Veining: A 5mm veinlet of soft, med-grey clay was observed with small alteration halo (~1-2cm), which feldspars altered to white clay minerals. Structures: The contacts have been characterized in the text, no major structures have been observed in this unit.				phyllic	W	potassic	w	1.5	2	1.5				
RVD17-01	D. LeFort					371		Granophyre											
RVD17-01	D. LeFort					373.38	373.64	Sublith (373.38 to 373.64m): Contact between a silicified zone and biotite veining in granite is present. Biotite veins are dark, anastomosing, irregular and discontinuous. They vary in thickness (mm to cm scale) and are crosscut by Qtz veins due to silicification. The Qtz veins post-date the biotite veins. Qtz zone may contain stringers of Cpy. A biotite vein was observed to have been cut by a Cpy-Qtz stringer and then truncated by the Qtz-rich zone										
RVD17-01	D. LeFort					385		Granophyre											
RVD17-01	D. LeFort					373.38	373.64	Sublith (373.38 to 373.64m): Contact between a silicified zone and biotite veining in granite is present. Biotite veins are dark, anastomosing, irregular and discontinuous. They vary in thickness (mm to cm scale) and are crosscut by Qtz veins due to silicification. The Qtz veins post-date the biotite veins. Qtz zone may contain stringers of Cpy. A biotite vein was observed to have been cut by a Cpy-Qtz stringer and then truncated by the Qtz-rich zone										

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RVD17-01	D. LeFort					393	396.66	The amount of Mo seems to be higher than in the upper portion of the unit.											
RVD17-01	D. LeFort	396.7	400.3	DIA	Diatreme: Grey-green medium grained porphyritic (borderline seriate texture) rock with sub to euhedral white-grey to light green crystals (1-5mm) of feldspars, and common rounded to subangular translucent-grey Qtz crystals (Qtz "eyes"). The porphyry is phenocryst rich with little matrix between crystals. Common euhedral poikilitic megacrysts are up to 2cm, are euhedral, and commonly zoned (plagioclase). Megacrysts are an off white colour and commonly host inclusions of other feldspars and sulfides (Cpy and Mo). The groundmass is fine-grained and grey to grey-green. The upper contact is a short gradation change in textures from the granite above (over 30 cm). The upper contact is sharp and irregular with fine grains of Cpy. The lower contact is characterized by increased phyllic alteration, and brecciated Qtz-Py and Qtz-Chl-Mo veining. Small (~1mm) white-silver, micaceous, hexagonal crystals are observed throughout the unit. Mineralization: Cpy occurs throughout the unit. It occurs commonly as disseminated blebs, round to angular, amoeba-like, up to 2mm wide. The disseminated blebs are often alloyed with Po. Cpy-Qtz stringers are present ~1mm at 50 deg tca. A Cpy-Po-Dol+/-Qtz veinlet series is present and oriented from 35 to 60 deg tca. The veinlets are ~1mm, wispy and show apophysis into the diatreme. Disseminated Mo is rare but present in the unit, occurring as small (usually <1mm) blebs or specks. A 2 cm Qtz-Py vein with angular ~1cm sized Py clots and finer-grained Py-bearing vein are present at the lower contact. The fine-grained Py is associated with a brecciated Qtz-Py-Chl (?) vein with a highly reflective mineral observed by looking down core axis from broken sections. Stringers of Mo+/-Qtz+/-Py are present. Po is present as rounded to subangular, sometimes elongated blebs up to 2mm wide, commonly alloyed with Cpy. Disseminated Py occurs as irregular blebs (non-magnetic Po (?) brown streak). Veining: A 1cm shallow (10 deg tca) Qtz-Dol vein is present in the unit. Alteration: Weak phyllic alteration overall with increased alteration in local patches. Feldspars are altered to a light, grey green clay mineral. Some fractured veinlets show a halo of phyllically altered feldspars. Structures: A brecciated vein assemblage occurs at the lower contact of the unit. The upper portion of the brecciated zone has a 2cm Qtz-Py-Carb vein with 1 cm clots of Py, with cloudy-white Qtz and white carbonates. The carbonate veins infill the fractures between the clasts of diatreme. There is a irregular 2mm soft grey clay veinlet in the middle of the breccia zone. The base of the unit has a 4 cm wide dark brecciated Qtz vein with subrounded to angular Qtz clasts. The dark material may be Chl and Qtz with disseminated fine-grained Py. 1mm to 1cm clots of Py are hosted within the darker Qtz. Elongated, irregular grains of Py occur along the lower margin. The zone is fractured and has a highly reflective mineral on the face of the fracture.				phyllic	W			2	2	1			
RVD17-01	D. LeFort	400.3	411	GRA	Granite-Granodiorite: Medium grained moderately phyllically and siliceously altered granite-granodiorite. No megacrysts are observed in this unit. Biotite grain size and abundance varies moderately throughout the unit, and is locally altered to a brownish colour (Secondary biotite?). Minor hornblende, altered euhedral crystals in phyllically altered zone (?). The upper contact with the diatreme is sharp, separated by a minor breccia-fault zone. The lower contact is irregular with sulfide mineralization occurring along the boundary, it is discussed further in the Structures section. Mineralization: Cpy occurs throughout this unit as irregular blocky, angular clots and irregular space-filling/interstitial texture and often alloyed with Po and Mo. This type of mineralization is observed throughout. Grains tend to exhibit hydraulic fracture infilling texture and are up to ~5mm and commonly polymineralic (Cpy-Po-Mo). The polymineralic clots can be up to 2.5cm wide. Cpy also occurs as disseminated, subrounded to angular, irregular blebs <5mm wide, subrounded to subangular blebs and commonly alloying with Po or Py. Cpy+/-Py+/-Po+/-Qtz stringers/veinlets are observed throughout the unit. They are oriented ~65 deg tca, and can be sheeted. Po occurs throughout the unit often alloyed with Cpy and/or Mo. Po can occur as round to angular disseminated blebs, as blocky, angular, irregular clots which display fracture infilling texture, typically less then 5mm. Po appears to have a tarnished brown colour to it. Mo is present towards the bottom of the unit, forming polymineralic grains with Py. Py is present in a similar manner as Po in this unit. A Veining: A low angle (15 deg tca) Qtz-Py vein is observed cutting several splintered/bifurcating barren Qtz veins (Early Qtz veining?). Irregular occurrences of euhedral Qtz crystals and fracture infilled Dol is observed. Cpy-Po can occur in these Qtz-Dol fracture infilled segments. Alteration: Intercalated sections of siliceous and phyllic alteration is present. Silicic portions are characterized by Qtz altered granite and 5cm thick Qtz veins are present oriented at ~45 deg tca. These Qtz veins can host polymineralic Cpy-Po-Py grains, which show a green tinge around the margins. One of these veins contains altered biotite. Most silicic alteration occurs from 400.28 to 404.61m. Small patches of moderate phyllic alteration are present and increase intensity below 404.61m (?). The phyllically altered zones are characterized by feldspars altering to white, white-yellow, light-green to green mica clay minerals. Mineralization types are more or less consistent between the different alteration zones with alteration/tarnishing of sulfides occurring in some silicified zones. Biotites alter to a light-yellow tan colour. Structures: The lower contact is characterized by interfingering of altered granite, Qtz pods and diatreme with an irregular, shallow angle (10 deg tca) Qtz-Dol-Py vein occurring along the contact. The vein has Py selvages and Py occurring within the vein as clots. The Qtz pods are amorphous blobs and truncate Qtz-Cpy veinlets. The Qtz pods contain wispy stringers of clay minerals (light tan).								2	1.5	1			
RVD17-01	D. LeFort					402.66		A 5mm Qtz-Dol-Cpy-Po-Py veinlet is present oriented at 65 deg tca.											
RVD17-01	D. LeFort	411	424.4	DIA	Diatreme: Grey-green medium grained porphyritic (borderline seriate texture) rock with sub to euhedral white-grey to light green crystals (1-5mm) of feldspars, and common rounded to subangular translucent-grey Qtz crystals (Qtz "eyes"). The porphyry is phenocryst rich with little matrix between crystals. Common euhedral, poikilitic, megacrysts are up to 2cm, are euhedral, and commonly zoned (plagioclase). Megacrysts are an off white colour and commonly host inclusions of other feldspars and sulfides (Cpy and Mo). The megacrysts also contain a semi translucent amber coloured, rounded crystals. The groundmass is fine-grained and grey to grey-green. Mineralization: Cpy occurs throughout the unit, however, in lower quantities than previous diatreme units. Conspicuously absent are the larger (cm sized) poly mineralic clusters of Cpy-Po-Mo that exhibit angular-blocky fracture infilling textures. Cpy is present as in Cpy+/-P+/-Qtz stringers. There are several occurrences of Qtz-Carb-Cpy+/-Po+/-Py+/-Mo (?) stringers/veinlets. They are up to 3mm wide and are typically oriented >45 deg tca. The veinlets can be sheeted. Cpy also occurs as disseminated blebs, round to angular, amoeba-like, up to 2mm wide. The disseminated blebs are often alloyed with Po. Blebs of Cpy+/-Po increase with depth. Mo (?) is observed as a fleck in a Qtz-Carb-Cpy veinlet. Veining: Several series of sheeted Py+/-Cpy (?) stringers are observed throughout the unit. They are wispy and oriented 30 to 45 deg tca but can vary in orientation. A Py stringer is cut by Qtz-Carb-Cpy veinlet. Alteration: Weak phyllic alteration overall with increased alteration in local patches. Feldspars are altered to a light, grey green clay mineral. Some fractured veinlets show a halo of phyllically altered feldspars. Feldspars showing a pink-red hue indicating Fe-oxide alteration of some replacement clay minerals. Structures: No major structures observed in this unit.								1	1	1			

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RVD17-01	D. LeFort	424.4	462.4	GRA	Granite-Granodiorite: Medium-grained moderately phyllically and possibly weakly potassic altered granite-granodiorite. Veins of primary biotite are associated with Cpy mineralization. Minor hornblende, altered euhedral crystals in phyllically altered zones (?). Megacrysts of feldspars are not observed. The upper contact with the diatreme is sharp but irregular, with rounded 5cm clasts of granite. The lower contact does not mark a lithological change but a decrease in alteration and mineralization. The unit contains xenoliths that are commonly altered (biotite alteration). Mineralization: Cpy occurs throughout this unit as irregular blocky, angular clots and irregular space-filling/interstitial texture and often alloyed with Po and Mo. This type of mineralization is observed throughout. Grains tend to exhibit hydraulic fracture infilling texture and are up to ~5mm and commonly polymineralic (Cpy-Po-Mo). The polymineralic clots can be elongated and appear to be associated with Qtz-Carb veining and can be up to 2cm long. Cpy also occurs as disseminated, subangular to angular, irregular blebs <5mm wide, and commonly alloying with Po or Mo.). Cpy+/-Py+/-Po+/-Qtz+/-Carb stringers/veinlets are observed throughout the unit. They are oriented ~45 to 65 deg tca. A Qtz-Carb-Cpy stringer cuts a dark Qtz vein with biotite-chlorite selvages. Qtz-Carb-Cpy+/-Po+/-Py amorphous pods are present and appear to be of similar origin of the fracture infilling, polymineralic Cpy-Po-Mo grains. The pods have euhedral Qtz crystals (~5mm) surrounded by infilling Dol-Cal and blocky clots of alloyed Cpy-Po+/-Mo. Po can occur as round to angular disseminated blebs, as blocky, angular, irregular clots which display fracture infilling texture, typically less then 5mm and commonly associated with Qtz. Mo is present throughout the unit, forming polymineralic grains with Cpy-Po. Barren Qtz veins cut by Po veinlets. Mo is present as discontinuous stringers in Qtz-rich (locally silicified) zones, may be infilling thin spaces in the Qtz as opposed to being discontinuous veins. Mo paint is observed on one fracture along a Mo stringer. They are irregular and the veinlets are wispy and contain Cpy. The Cpy and Mo formed coevally. Mo abundance decreases with depth (after 440m ?), occurring rarely as polymineralic Cpy-Po grains and selvages of Qtz veins (?). Py occurs with poly-mineralic and stringer type mineralization. Larger angular-block Py is observed towards the base of the unit in association with Qtz-Carb veins. The cluster is within a planar orientation and has fracture-infilling texture. Veining: Barren Qtz veins with dark chlorite-biotite selvages, ~45 deg tca. Dark, wispy, discontinuous, irregular stringers of Chl-Biotite are present, these are cut Qtz-Cpy stringers. A ~5mm platy, bladed, dull silver grey sulfosalt is present. Alteration: Intercalated sections of potassic and phyllic alteration are present. Early weak potassic alteration is overprinted by weak to moderate phyllic alteration and a late stage, moderate to strong, very localized occurrences of silicic alteration. Potassic alteration is characterized by clusters of wispy, brown-purple, anastomosing, discontinuous stringers and veinlets of biotite and can contain fine-grained Cpy. Wispy purple patches of biotite altered patches are crosscut by Qtz-Cpy-Po veinlets (450.14m). In one case, a veinlet (Chl-Bio(?)) is crosscut by a mineralized Cpy-Po-Qtz stringer. A polymineralic grain with Cpy-Po+/-Mo is surrounded by a mineral that may be K-Spar (a sample was taken for staining, 457.11m). Patchy zones of weak to moderate phyllic alteration are present. The phyllically altered zones are characterized by feldspars altering to white, white-yellow, light-green to green, green-blue mica clay minerals. Localized alteration sometimes increases around veinlet, fractures and faults. The unit shows locally silicified areas characterized by Qtz-rich pods and Qtz veins. The Qtz pods and veins truncate existing textures and structures. Some of which show Mo-Po mineralization (photos), may be filling in spaces post-emplacement of Qtz. Structures: The unit is characterized by small-scale fault zones with fault gouge. Fractured veinlets show slickenlines with unclear sense of direction.								1	2	1.5	1.5		ss	0.01
RVD17-01	D. LeFort					429.42		Cpy-Po-Mo crystals rim a Qtz-rich enclave											
RVD17-01	D. LeFort					435.33		Disseminated Mo occurs in clusters around polymineralic blebs											
RVD17-01	D. LeFort					429.85		Clustered discontinuous and discontinuous, bifurcating Mo veins-veinlets											
RVD17-01	D. LeFort					441.59		Sulfosalt crystal ~1mm, silver-grey											
RVD17-01	D. LeFort					452.15		A cluster of mm-1cm sized irregular-blocky to disseminated blebs occurs with Cpy											
RVD17-01	D. LeFort					461.02		Dark, wispy, discontinuous, irregular stringers of Chl-Biotite are cut Qtz-Cpy stringers											
RVD17-01	D. LeFort	462.4	495.9	GRA	Granite: This unit is similar to the one above however it is characterized by less mineralization and alteration. Medium grained granite-granodiorite. Anhedral-subhedral Qtz and feldspar crystals. No megacrysts observed. Biotite is common, 15-30%. The unit contains rounded, dark xenoliths. Small (1mm) diamond shaped crystals of Hbl and Sphene (?) are altered to a white-brown. Absent to weak patches of alteration, increasing alteration toward the lower contact. 1 metre thick moderate phyllic altered zones are present. Mineralization: Cpy-Po-Qtz stringers are present throughout the unit. They are usually oriented at a high angle (>45 deg tca) and ~1mm thick. The stringers often crosscut each other and can be sheeted. Several mm sized blebs of Cpy+/- Po blebs were observed, but disseminated Cpy and Po is very fine grained (hand lens needed). Wispy Py stringers throughout, an be discontinuous and anastomosing. Py is disseminated as small <1mm irregular blebs throughout. Mo (?) selvages (<1mm) along a Qtz-Carb-Cpy veinlet. Veining: 8cm thick Qtz-Kspar vein. UST. Granophyric texture along the margins (~3cm thick). Euhedral Kspar crystals with graphic Qtz intergrowth. Qtz filling the centre of the vein. Crosscut by dark Qtz-Chl+/- Py stringer. Late carbonate stringers, <1mm, discontinuous. Two 1.5cm thick Qtz-Crb-Py veins are observed. Py is angular-blocky 1-10mm wide and Py shows brecciation. Qtz-Carb Veins associated with the a Alteration: Patchy sections of Ep grains (15cm section of Ep grains at 482.0m), alteration mineral, anhedral ~1cm (weak propylitic). Local minor patches of weak phyllically altered Feldspars to clay-mica grains. Minor alteration halos around some veinlets or fractures. Structures: The unit is characterized by small-scale fault zones with fault gouge. Fractured veinlets show slickenlines with sinistral and unclear sense of direction.				Phyllic	A	Propylitic w		1	0.5	0.5				

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RVD17-01	D. LeFort					472.2	473	Common wispy, irregular, discontinuous, 0-45 deg tca, mostly low angle, dark Qtz veins with Chl selvages. Cpy-Po disseminated as <1mm blebs.	phyllic	A			1	1	0.5				
RVD17-01	D. LeFort					487.5	488.28	Moderately phyllic altered granite, White-White-Yellow-green clays, altered bio-Hbl light brown, dol and cal veins 1cm, 45 deg tca, clots of Py associated with Dol vein	Phyllic	M									
RVD17-01	D. LeFort					489.82	491.88	Moderately phyllic altered granite, White-White-Yellow-green clays, altered bio-Hbl light brown, dol and cal veins 1cm, 45 deg tca, clots of Py associated with Dol vein	Phyllic	M									
RVD17-01	D. LeFort	495.9	500	GRA	Granite-granodiorite: Moderately phyllic altered, medium-grained granite-granodiorite. Anhedral-subhedral Qtz and feldspar crystals. No megacrysts observed. Biotite is common, 15-30%. The unit contains rounded, dark xenoliths. Small (1mm) diamond shaped crystals of Hbl or Sphene (?) are altered to a white-brown. Moderate phyllic alteration throughout. Mineralization: Cpy-Po-Qtz stringers are rare but present throughout the unit. They are usually oriented at a high angle (>45 deg tca) and ~1mm thick. Qtz (euhedral crystals)-Carb+Mo+Sulfosalt. Sulfosalt is present as ~1-2mm irregular-angular black interstitial textured blebs. A 2cm irregular clot of sulfosalt is present. Wispy Py stringers throughout. Can be discontinuous and anastomosing, low to high angle. Veining: Barren Qtz veinlets (~5mm) are present at high angle to core axis. Alteration: Moderate phyllic alteration throughout. Feldspars altered to clay-mica grains. Minor alteration halos around some veinlets or fractures. Biotite and hornblende are consistently altered to a light brown clay. Structures: No major structures observed in this unit. Slickenlines with unclear sense of movement present on some fractured veinlets.				Phyllic	M			1	0.5	0.5	1	sulfosa	1
RVD17-01	D. LeFort					496.45		Qtz (euhedral)-Carb - Sulfosalt vein, ~5mm wide, 45 deg tca. Black, angular, 1-2mm crystals with cleavage/striations											
RVD17-01	D. LeFort					496.5		Sulfosalt crystal soft silvery, irregular clots ~2cm patch, Soft, easily scratched											
RVD17-01	D. LeFort					496.82		2cm shallow angle (25 deg tca) Qtz-Py-Mo-Chl (1) vein, with irregular offshoots from main body of the vein in the granite, Several generations of dark Qtz with Chl selvages, Mo mostly occurs as irregular blebs in the selvages.					1			1			
RVD17-01	D. LeFort	500	508.7	DIA	Diatreme: Moderately phyllically altered clastic porphyritic diatreme. Feldspars and mafics (Hbl) are euhedral and commonly altered, unit appears to be more Qtz-poor than previous units. Feldspar laths up to 1cm are observed. The upper contact is marked by a 1.5 metre thick hydrothermal breccia-fault zone. There are xenoliths (or intercalated layers?) of granite-granodiorite throughout the unit. Mineralization: Rare disseminated Cpy and Py throughout, small <1mm irregular blebs (hand lens needed to see). Rare Cpy-Po-Qtz stringer. <1mm flecks of Mo are present in the brecciated contact. Mo is also present as <1mm flecks in Qtz veinlet. Py+/-Chl stringers are common throughout the unit they have varying orientation and are <1mm thick. Py-Qtz-Carb veinlets ~0.5 to 1cm thick veinlets are oriented at ~45 deg tca. Veining: White and grey veinlets of carbonate are present. They are up to 1.5cm thick and have varying orientation (usually 25-45 deg tca, but can be oriented parallel tca). The grey carb veinlets crosscut white carb veinlets. In one case, a carb vein shows comb layering in the selvages and a black centre (both are carbonates). Alteration: The unit shows moderate phyllic alteration with feldspars altering to white, yellow brown, and green clay minerals. Euhedral Hbl crystals are commonly altered to a light brown. Structures:: A breccia-fault zone is present at the upper contact.				phyllic	M			0.5	0.3		0		

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RVD17-01	D. LeFort					500	500.77	Breccia – Upper contact of diatreme, Angular mm to cm clasts of brecciated Qtz veins. Dark Qtz veins with abundant irregular infilling carb veins. Thicker grey carb veins (2-3cm) with mm sized ang Qtz clasts oriented at 45 deg tca. Chaotic. Irregular clots of Py, disseminated Py blebs (<1mm), mm sized elongated blebs of Mo.											
RVD17-01	D. LeFort					500.77	501.53	A bleached leuco-breccia with rounded to subangular mm to 1cm clasts of brecciated Qtz veins. Groundmass is a soft, altered, clay-carb											
RVD17-01	D. LeFort					506.8		Qtz-Carb-Py veinlet, 45 deg tca ~1cm thick											
RVD17-01	D. LeFort					505.5	506	Granite-Granodiorite xenolith (or intercalation)											
RVD17-01	D. LeFort					508.2	508.71	Granite-Granodiorite xenolith (or intercalation)											
RVD17-01	D. LeFort					508.4		Cpy-Po-Qtz stringer (<1mm 45 deg tca)											
RVD17-02	N. Mostaghimi	0	6.1	GRD	Overburden Med-coarse grained granite is broken up rubble of biotite-granite. No pieces larger than 10 cm. Fracture surfaces are coated with FeOx (lim + goethite), and pervasively within rock (4 intensity). 1.52-3.05 m: <3 cm fragments. 4.57 – 5.96 m: <2cm fragments up to ~8 cm long fragments of core.														
RVD17-02	N. Mostaghimi	6.1	31.09	GRD	Med-coarse grained bt-rich granite, 25-35% plag, 20-30% qtz, 20-30% bt, 5-10% hbl. Milky white plag grains are subhedral to euhedral and range from 1-3 mm in length. Clear qtz grains are anhedral to subhedral and 1-2 mm in size. Bt grains are euhedral to anhedral and range from 1-5 mm in size. Bt grains may occur coalesced with other bt grains. Hbl grains are euhedral to subhedral and vary in size from 1-2 mm. Subhedral to euhedral plag megacrysts occur frequently (15-20/10 cm) and range from 1-2 cm in size. Irregular, mafic concentrated enclaves with tabular to rounded shapes occur 2-4 times/metre and range in size from 2 – 8 cm. Enclaves contain a intergrown boundary with the surrounding rock. Alteration and Veins: Chl-stringers are common. Py-bearing stringers are common, but the py is weathered. Weak chl after hbl and bt. Weak ser after plag grains. Trace, diss. ep at 18.43 m. Veins: <1 mm wide, wispy veinlets with strong FeOx; sign of remnant py. These veinlets occur <10 per 1 metre from 6.10 – 9.14 m. 65 deg. TCA py veinlet at 7.40 and 7.49 m. 55 deg. TCA py veinlet at 8.70 m; 40 deg. TCA at 9.45 m. Chl+/-py veinlets, 30-35 deg. TCA from 18.29 – 18.63 m. Weak chl-veinlet intensity (4-10/metre) from 11.89 – 17.93 m. Qtz-chl veinlet at 17.72 m with wispy and sinuous texture varies from 1-3.5 mm. 2-4 wispy chl-veinlets/10 cm are <1 mm wide and contain trace to none sulphides, from 10 - 11.64 m; 30-35 deg. TCA. Mineralization: Very fine-grained (<1 mm) po is associated with mafic enclaves in the rock. po: 0.1%; py: 0.1%; tr; mo: tr; cpy: tr Structure: Weak to moderate primary magmatic foliation present at 11.55 m and 16.24 m. Foliation is defined by the preferred orientation of lath-shaped mafic minerals. Magmatic foliation is 40-45 deg. TCA. 3 cm wide fault gauge with broken, rounded clasts (2-3 mm wide) in a matrix-supported brown clay from 10 – 10.03 m; 65 deg. TCA. Fault at 25.20 – 25.23 m and 25.29 – 25.32 m, both filled with fault gauge; 60 deg. TCA.				Phyllic	Weak	Propylitic	Weak-mo	0.1	0	0.1	0				
RVD17-02	N. Mostaghimi					21.19	21.22	Aplite dykelet. Very fine-grained bleb of dark greyish-black mineral (Sulfosalt?), <2 mm in size.											
RVD17-02	N. Mostaghimi					24.7	27.09	>20 chl+/-py+/-po veinlets with orientations from 30-45 deg. TCA.											

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RVD17-02	N. Mostaghimi					27.43	28.96	Weak ep alteration ocurrs as dissemination. Weak-moderate ser alteration after plag. Chl+/-po+/-py veinlets typically 10 deg. TCA, rarely 65 deg. TCA. Po mineralization associated with mafics is rare.	Phyllic	Weak-mc	Propylitic	Weak							
RVD17-02	N. Mostaghimi	31.09	44	GRD	Medium-coarse grained bt-rich granite. 2.2 cm wide aplite dyke (80 deg. TCA), cross cut and offset by 2-3 mm wide wispy chl-veinlet (15 deg. TCA) at 35.63 m. Aplite dyke at 34.20 – 34.23 m with an orientation of 55-60 deg. TCA. Alteration: Weak-moderate, pervasive ser alteration. Weak-moderate chl alteration after mafics. Trace to weak pervasive ep alteration. Veins: 4-7 thin (<1-1 mm wide), wispy chl+/-po+/-py+/-cpy veinlets per 10 cm from 31.09 – 33.86 m. Rare cb-infill of chl+/-po+/-py veinlets. Mineralization: Cpy bleb occurs at 32.29 within chl+po veinlet, 35 deg. TCA. 1 mm large cpy bleb occurs in 1-2 mm wispy chl-po veinlet with orientation of 35 deg. TCA. Po: 0.3%; py: 0.1%; tr; mo: tr; cpy: <0.05%. Structure: Magmatic foliation is still evident at 32.24 m. Fault at 34.97 – 35.00 m; 60 deg. TCA. Fault at 35.05 – 35.22 m contains clast-supported gouge from 35.05 – 35.10 m, and matrix-supported gouge from 35.10 – 35.22 m; 65 deg. TCA. Chl+/-po+/-py veinlets occur at 85 deg. TCA and 30 deg. TCA.				Phyllic	Weak-mc	Propylitic	Weak-mc	0.1	0.1	0.3	0			
RVD17-02	N. Mostaghimi					32.57	32.88	Biotite rich (>70%) porphyritic dyke(?) contains a relatively sharp contact with the main phase biotite-granite. Very fine-grained (<0.1 mm) bt groundmass, with 1-2 mm bt, 1-3 mm plag, and 1-2 mm qtz grains. Weakly magnetic.										
RVD17-02	N. Mostaghimi					37.42	39.71	Vein density increases. 2-5 po+/-py wavy veinlets are up to 2 mm wide; occur at 10, 35 and 65 deg. TCA. Very thin (<1 mm-wide) FeOx(py)-qtz veinlets occur 5-8/10 cm at 45 deg. TCA. Chl+/-sulph stringers Plag grains are strongly sericitized or altered to clays.	Phyllic	Moderat	Propylitic	Moderate							
RVD17-02	N. Mostaghimi					42.58	42.61	Aplite dyke, cross cut by chl-veinlets and cb-veinlets contains an orientation of 65 deg. TCA.											
RVD17-02	N. Mostaghimi					42.67	42.97	Fragmented rock (3-7 cm in length).											

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RVD17-02	N. Mostaghimi	44	73.52	GRD	Med-coarse grained bioitite granite. White, 2 mm wide plag megacrysts with bt inclusions are common (2-4/ 10 cm). Mafic enclaves are large (3 cm) and occur 1-2 per 1 metre. Alteration: Moderate pervasive chl alteration from 45.72 – 46.26 m. Ep alteration varies but is generally weak-moderate. Veins: wispy, <1 mm wide chl+/-po+/-py veinlets are common and are oriented 65-70 deg. TCA at 45.82 m and 45.47 m. Diffuse, ep stringers occur at 49.56 – 50.29 m and are up to 3 mm wide at times. Late cb-infill of chl-veinlets is common, as well as cb stringers on there own (1-2/10 cm). Cb veinlets <1 mm thin with orientations 90 deg. TCA occur with ser halos ~1.5 cm wide on either side of the veinlet start at 50.89 until 52.60 m. Dark, chl veinlets with diffuse boundaries are more common from 49.32 m and can be up to 3 mm wide; contain orientations of 10 and 50 deg. TCA. 1 cm wide qtz vein with sharp margins and <2-4% po as round blebs at 54.80 m (occur 1/metre). Cb veinlet with 35 deg. TCA at 58.50 m. Chl-ep veinlets at 58.50 m with orientations 30 deg. TCA; 3 within 10 cm. At 56.49 m, a 2 mm wide qtz vein with 5-10% po and one 1.5 mm wide bleb of cpy cross cut a thin, 1 mm wide wispy chl-ep veinlet. The chl-ep and qtz-sulph veinlets are conjugates oriented at 60 deg. TCA each. Chl-po veinlet (1 mm wide) with 1.5 cm wide qtz halo at 61.44 m; veinlet is oriented at 45 deg. TCA. Cb stringers are common from 65.81 – 67.06 m at 30 and 45 deg. TCA. Two conjugate qtz veins with clots of chl-cb and <10% po+/-py at 30 deg. TCA at 65.71 m. 1 cm wide qtz veins at 73.15 and 73.20 m with orientations of 30 deg. TCA. Mineralization: po: 0.5%; py: 0.35%; tr; mo: tr; cpy: 0.08% Structure: Fault zone from 44.0 – 44.93 m, with fault from 44.27 to 44.44 m. Magmatic foliation is observed at 45.62 m.						Propylitic	Moderate	0.4	0.1	0.5	0			
RVD17-02	N. Mostaghimi					44	44.93	Fault zone with fault located between 44.27 and 44.44 m. Rock is intact, but strongly fracture-infilled and cemented with clays.											
RVD17-02	N. Mostaghimi					46.26	47.09	2 mm wide smoky qtz veinlet with an orientation of 65 deg. TCA cross cut and offset by 2 cm by a thin 1 mm wide cb veinlet with an orientation of 15 deg. TCA.											
RVD17-02	N. Mostaghimi					55.36	57.5	Light, pale green coloured rock. Strong pervasive ser alteration and moderate pervasive chl alteration. Vuggy calcite and qtz within a void 2 cm wide, with an orientation of 45 deg. TCA. Leucoxene alteration after mafic minerals is moderate to strong (up to 10%). Primary texture is predominantly destructed. Carbonate-clay infill is strong.	Phyllic	Strong	Propylitic	Moderate							
RVD17-02	N. Mostaghimi					62.93	64.43	Dark grey-black coloured rock. Weak-moderate pervasive sericite alteration. Moderate chl-ep alteration. Chl-ep stringers are common (2-3/10 cm). 1.5 cm wide cb vein at 64.83 at 30 deg. TCA.											
RVD17-02	N. Mostaghimi					64.43	73.52	Chl-po(sulph) stringers occur 2-4/10 cm.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-02	N. Mostaghimi					71.04	73.52	Zone of increased propylitic alteration. 1 – 1.5 mm wide ep+/-chl stringers occur every 10 cm with up to 4 cm wide ep+albite selvages after primary plag grains. These ep+/-chl veinlets contain orientations of 30-45 deg. TCA. Chl-sulph stringers are very common (3-5 per 10 cm); mostly po.			Propylitic	Strong							
RVD17-02	N. Mostaghimi	73.52	87.29	GRD	Plag megacrysts are not distinguishable in the bt-granite. Alteration: Ep and albite after plag is common. Albite is limited to haloes of ep+/-chl+/-sulph veinlets. Zones of intermittent strong sericite (phyllic) alteration. Biotite alteration at 76.00 and 79.97 m and from 86.18 – 86.50 m. Propylitic alteration is moderate. Oxidation: 0 Veins: 5 mm qtz vein with sharp boundaries at 45 deg. TCA at 76.00 m. Qtz-sulph(py?) vein with diffuse margins and 1 cm wide are oriented at 45 deg. TCA at 78.48 m. Dilation vein 5 mm – 2 cm wide with >90% py at 30 deg. TCA at 78.72 m. Peach-pale coloured cb (ank?) infill of a qtz vein 2 cm wide with a 45 deg. TCA orientation at 82.60 m; white cb along one margin. Qtz-py at 65 deg. TCA at 82.65 m. po+chl veinlet (80 deg. TCA) cross cut by cb+chl wispy, 1 cm wide veinlet (45 deg. TCA) at 83.04 m. Cb-chl veinlet (30 deg. TCA), chl-po veinlet (45 deg. TCA). Po+cb infill with chl envelope 1-1.5 cm wide at 85.30 m. Ep veinlets are common and occur 2-3/10 cm. Mineralization: Po: 0.85%; py: 0.50%; mo: tr; cpy: 0.1% Structure: Fault at 74.32 m is oriented at 45 deg. TCA. The fault contains 1 cm of grey clay gouge material. Fault at 76.36 m with 8 mm of clay gouge and po mineralization (15-20% of fault). Fault (1 mm wide) at 77.47 m at 45 deg. TCA.						Propylitic	Moderat	0.5	0.1	0.9	0			
RVD17-02	N. Mostaghimi					74.07	74.32	Shear zone containing chl sulph(po+/-py+/- tr cpy) veinlets 2-3 mm wide at 45 and 30 deg. TCA.											
RVD17-02	N. Mostaghimi					73.52	74.68	Moderate to strong pervasive chl alteration after mafics. Strong sericite alteration. 2 cm qtz vein with 80% po at 60 deg. To TCA at 73.90 m. Qtz-po veinlet (<1 mm wide) 45 deg. TCA cross cuts ep-chl veinlet at 60 deg. TCA at 73.64 m.	Phyllic	Strong	Propylitic	Moderate-strong							
RVD17-02	N. Mostaghimi					77.3	78.96	Strong ser and clay alteration is pervasive. Thin qtz+/-py veinlet stockwork at 35 and 60 deg. TCA; 3-4/10 cm. Chl stringers are very common as well.			Phyllic	Strong							
RVD17-02	N. Mostaghimi					76	79.97	Bt Alteration			Potassic	Moderate							
RVD17-02	N. Mostaghimi					86.18	86.5	Bt Alteration			Potassic	Moderate							

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RVD17-02	N. Mostaghimi	87.29	109	GRD	Phyllic Altered Zone with intermittent zones of propylitic alteration Pale, light green to pale grey coloured rock with texturally destructive sericite alteration of bt- granite. Alteration: Sericite alteration is pervasive and associated with qtz veins. Brown coloured pervasive bt alteration is common from 89.92 – 91.21 m. Late cb infill of fractures and veins is very common. Chl alteration is strong and associated with veinlets and mafic minerals. Anhydrite alteration is noted at 99.01 m associated with a 2 cm wide bleb of po, and a spec of cpy. Leucoxene alteration occurs 95.52 – 97.37 m. Veins: Sheeted 1 mm wide qtz veinlets occur from 90.71 – 91.01 m and are oriented at 60 deg. TCA. Wispy chl+/-sulph veinlets occur at 30 deg. TCA and typically contain cb infill and occur as stockwork; contain a high density (>10/10 cm). Dilation qtz vein (3 mm – 2 cm wide) with cb along margins at 93.20 m. Wispy chl veinlet with mo and po mineralization, as well as a 1 mm wide bleb of cpy at 97.92 m with an orientation of 45 deg. TCA. 3-4 cm wide vein with 1 cm of cb-infill and remaining po-py-qtz along margins at 99.60 m with an orientation of 30 deg. TCA. Qtz stockwork at 104.85 m. QSP vein at 107.24 m with an orientation of 25 deg. TCA. qtz-py vein is 5 mm wide and parallel to another vein of chl-cb, there is a ser halo of 2-3 cm wide on either side. Mineralization: Po associated with the chl veinlets that are commonly infilled with cb. Po observed at 90.43 m associated with an altered mafic enclave. Cpy specs are not common, but associated with qtz veinlets with po when observed. A bleb of po+py+cpy occurs at 102.63 m. Po: 0.8-1%; py: 0.30%; mo: tr; cpy: 0.08-0.10%. Structure: Fault at 104.14 m with 5 mm of grey clayey-gouge material.						Phyllic	Moderate	0.9	0.1	0.3	0		
RVD17-02	N. Mostaghimi					89.92	91.21	Brown coloured pervasive bt alteration			Potassic	Moderate-strong							
RVD17-02	N. Mostaghimi					97.37	98.03	Dark, black-coloured rock is moderately sericitized. The protolith may be the biotite rich (groundmass) porphyritic phase of the granite.			Phyllic	Moderate							
RVD17-02	N. Mostaghimi					99.6	103.72	Moderately sericitized zone. K-feldspar is not altered to sericite; weak-moderate alteration to clays. Plag grains are altered to sericite. Plag megacrysts are observed and intact.			Phyllic	Moderate							
RVD17-02	N. Mostaghimi					103.72	104.14	Brecciated aplite dyke with cb matrix.											

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RVD17-02	N. Mostaghimi	109	181.4	GRD	Propylitic alteration zones with intermittent zones of phyllic alteration Bt-granite with uncommon mafic enclaves (1/3-5 m). Large, 12 cm long mafic autolith at 110.98 m. Plagioclase megacrysts are observed within zones of weak to moderate propylitic alteration. Aplite dyke at 131.74 m oriented at 70 deg. TCA. Autolith with po cross cut by bt-qtz-sulph veinlet at 20 deg. TCA at 140.41 m. Aplite dike at 157.20 – 157.31 m. Zoned plag phenocryst at 159.84 m. Aplite dyke at 169.0 – 170.80 m. Alteration: Zones of propylitic alteration contain chl-ep+/-qtz and at times pervasive ep alteration of plag e.g., 115.46 – 115.82 m. Chl-py veinlets with ab halos are also common. Chlorite pervasive alteration of mafics varies in zones from trace to moderate. These zones are separated by zones of sericite rich, or phyllic alteration. Sericite occurs as white, pale and light green or bright green colours after plag, or suspected after ab after plag. QSP veins occur infrequently with qtz-py veins and ser-qtz pervasive alteration of the halos. The phyllic alteration is moderate with weak and moderate-strong variations. Dark brown, pervasive biotite alteration is not common but occurs in a couple areas over intervals of approx. 50 cm. Veins: Thin, 1 mm wide qtz-chl-ep veinlets that are oriented 30 deg. TCA are cross cut by 1 mm chl-py-ab wide veinlets that are oriented 55 deg. TCA at 109.15 m. Strong qtz-po+/- veinlet stockwork at 110.43 m over an interval of 40 cm. <1 mm qtz-chl 70 deg. TCA. Qtz-po at 40 deg. TCA at 113.56 m. 1-2 mm wide cb-chl-sulph vein at 30 deg. TCA at 113.81 m. 2 mm qtz veinlet with chl and sulph envelope of 2 mm on either side and ab halo at 40 deg. TCA at 115.05 m. Ep-chl veinlet at 30 deg. TCA at 115.46 m. Qtz-chl-sulph vein with orientation of 15 deg. TCA at 115.59 m. Wispy cb veinlet at 120.15 m with orientation of 20 deg TCA cross cuts qtz-py veinlet at ~0 deg. TCA. 2 cm wide qtz vein with gradational margins and po blebs aligned along the centre contains an orientation of 65 deg. TCA at 122.62 m. Qtz-po-cb vein at 123.44 m with orientation of 75 deg. TCA. 2-3 cm pink cb vein with chl is oriented 25 deg. TCA at 124.24 m. 3-4 cm wide light pink coloured cb (dol?) vein, likely re-opened, contains sulphides and qtz-chl-sulph clasts at 125.47 m and an orientation of 25 deg. TCA. Clay/cb occurs at the margins of the vein. 1 mm wide white cb veinlet is cross cut by another qtz-chl-cb thin veinlet – both of which cross cut >2 cm wide po-py-qtz-cpy vein. The sulphides in this vein are larger than normal. Also, two different py occur; a darker fine-grained py and a lighter brass coloured py at 128.15 m. 5-7 white <1 mm wide sheeted cb veinlets occur over 15 cm at 129.12 m with orientations of 40 deg. TCA. At 129.12 m, a wider (2 cm) cb veinlet with cubic py (5% of vein) cross cuts the rock. A qtz-po veinlet in proximity to the fault at 130.91 m cuts the rock at 35 deg. TCA. A po-qtz-cb+anh(?) veinlet cuts the granite and aplite dyke at 25 deg. TCA at 131.74 m. Qtz vein with mo at 133.13 m cuts the rock at 35 deg. TCA. Qtz-ser veinlet with 30 deg. TCA orientation at 134 m. Thin qtz-sulph-chl with qtz selvage cuts rock at 25 deg. TCA at 136.32 m. Qtz-po-cpy-chl at 70 deg. TCA at 137.16 m. Qtz-po-chl+/-cpy stockwork veinlets at 137.26 m (30 deg. TCA). 4 cm wide qtz-bt-py-po-cpy vein at 139.05 m cuts the rock at 55 deg. TCA. Po-mo along median line of 2 cm wide qtz-vein with tr cpy cross cuts rock at 40 deg. TCA at 143.10 m. Cpy and sulpho-salts (?) in thin <1mm qtz veinlet that cuts rock at 30 deg. TCA at 141.63 m. Dilation qtz vein >3 cm with prt (>75% of vein) at 144.47 m. Qtz-chl-sulph with late cb in-fill cuts rock at 60 deg. TCA at 145.03 m and 145.39 m at 50 deg. TCA. 1.5 cm wide, >90% po vein with qtz cross cuts the rock at 30 deg. TCA at 150.91 m. Wispy 1-2 mm wide chl-sulph veinlet cross cuts at 10 deg. TCA at 155.88 m. Qtz-ser-po vein at 163.22 m cross cuts rock at 30 deg. TCA. Ab alteration halo around fracture cutting rock at 90 deg. TCA and 60 deg. TCA at 162.50 m. At 172.11 m 2 mm wide >90% po-qtz vein with later cb infill associated with fault, cutting rock at 45 deg. TCA. At 180.06 m a cb-chl-po veinlet with an orientation of 30 deg. TCA cross cuts a qtz-mo-po veinlet with orientation of 20 deg. TCA. Mineralization: Cpy bleb at 118.97 m. Po is the most common mineralization observed. Po typically occurs with thin qtz veinlets, wider (1-2 cm wide) qtz veins with blebs aligned along the centre margin, and thin wispy qtz-chl veinlets. Po commonly is associated with mafic enclaves (e.g., 120.55 m). Py is						Propylitic	Weak-mo	1.8	0.2	1	0		
RVD17-02	N. Mostaghimi					110.1	114.3	white ab and white to pale beige clays and white to pale green to green ser after plag.											
RVD17-02	N. Mostaghimi					115.46	115.82	Pervasive ep alteration of plag			Propylitic	Strong							
RVD17-02	N. Mostaghimi					118.97	120.98	Strong pale green and white sericite pervasive alteration after feldspars.			Phyllic	Strong							
RVD17-02	N. Mostaghimi					123.44	138.22	Strong pale green and white sericite pervasive alteration after feldspars. 10-15 sheeted qtz-chl-ep veinlets over 20 cm at 123 m with orientations of 60 deg. TCA. Beige coloured, 1-2 mm sized leucoxene alteration is common and scattered throughout the interval.			Phyllic	Strong							
RVD17-02	N. Mostaghimi					143.26	146.23	Moderate-strong pervasive green, pale green and white sericite alteration overprints propylitic altered bt-granite.	Phyllic	Moderati	Propylitic	Weak-moderate							

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RVD17-02	N. Mostaghimi					148.6	149.5	Moderate biotite alteration occurs as flooding/high density of wispy stringers at 40 deg. TCA and 55 deg. TCA.			Potassic	Moderate							
RVD17-02	N. Mostaghimi					150.5	154.55	Moderate pale green to green coloured sericite and pale yellow coloured clays after feldspars. Weak-moderate leucoxene alteration is common as well.			Phyllic	Moderate							
RVD17-02	N. Mostaghimi					164.73	165.12	Pale yellow moderate to strong pervasive sericite alteration at 60 deg. TCA.			Phyllic	Moderate							
RVD17-02	N. Mostaghimi					168.89	171.6	Biotite alteration from 168.89 – 169.0 m and 170.80 – 171.60 m. Foliation defined by biotite stringers and elongate (primary?) qtz grains are 85-90 deg. TCA.			Potassic	Moderate-strong							
RVD17-02	N. Mostaghimi					172.11	181.41	Pale yellow moderate to strong pervasive sericite alteration.			Phyllic	Moderate-strong							
RVD17-02	N. Mostaghimi	181.4	377	Biotite-Granite	Weakly Propylitically Altered and overprinted by potassic alteration(?) Biotite-granite with weak propylitic alteration. Uncommon mafic enclaves. Plag phenocrysts are observed intermittently and may occur altered and deformed, e.g., 191.50 m. The weakly propylitically altered rock is overprinted by weak to moderate potassic(?) alteration. Granophyric texture is observed at 199.52 m over an 8 cm interval. Very uncommon zones of increased sericite alteration. Zoned plag phenocryst with chl after bt inclusions and prt and py at 215.41 m. Grey, barren aplite dyke at 247.71 – 247.84 m cuts the granite at 30 deg. TCA. Aplite with chilled margin(?) at 275.64 m cuts the rock at 60 deg. TCA. Aplite dyke cross cut by qtz veinlets at 284.73 m. Mafic autolith at 294.28 m. An 8 cm wide aplite dyke cuts the granite at 351.40 m at an orienation of 70 deg. TCA. 2.5 cm wide aplite dyke cross cuts the granite at 357.90 m at an orientation of 65 deg. TCA. Alteration: Weak propylitic alteration comprises thin (1 mm wide) chl-ep veinlets with >2 cm wide ab halos on either side, qtz-chl-sulph (thin) veinlets. Pervasive epidote is weak, however, pervasive chl after mafics is weak-moderate. The albite associated with veinlets is altered to clays in many cases as the veinlets are re-exposed to later fluids and alteration. Potassic(?) alteration is defined by biotite veins that comprise of a series of biotite stringers (5-10/over 3-6 cm) +/-qtz+/-a white halo suspected to be k-spar alteration+/-sulphides. Thin, <1 mm wide clear qtz+/-po+/-py+/-cpy veinlets and 1-2 cm wide qtz+/-po+/-py+/-cpy+/-mo veins cross cut propyltic alteration but are not observed cross-cutting bt veins. 3 cm wide qtz-chl- white and beige cb cuts the rock at 55 deg. TCA at 192.83 m. Late, white coloured thin (<1 mm) cb veinlets cut the rock 1/10 cm. Cb with clay is common along fractured surfaces. Beige-pale pink-and more commonly in this interval, pale orange coloured cb typically occur within >5 cm wide brecciated veins with qtz and sulphides. Veins:Bt-po-cpy vein cross cuts mafic enclave at 181.90 m at 70 deg. TCA. White k-spar(?) vein with diffuse margins is 2 cm wide at 182.24 m with an orientation of 60 deg. TCA. <1 mm qtz-po-py veinlet with sharp margins at 35 deg. TCA at 182.49 m. 3-4 brown bt-stringers cut the rock at 65 deg. TCA at 182.82 m. <1 mm chl-cb-bt(?) veinlet oriented at 40 deg. TCA cross cuts py stringer at 0 deg. TCA at 185.18 m. 1 cm wide clear qtz vein with cpy-mo (<1 mm wide blebs) and 65 deg. TCA is cross cut by <1 mm white cb veinlets oriented 35 deg. TCA at 188.16 m. Wispy qtz-chl-peach-coloured cb-sulph vein is oriented at 35 deg. TCA at 190.38 m. Cb vein/fracture fill at 0 deg. TCA from 193.25 – 193.81 m. 2 cm concentration of bt veinlets with 1.5 cm kspar(?) halo at 195.14 m cuts the rock at 70 deg. TCA. Qtz-po veinlet at 30 deg. TCA at 195.79 m. Qtz-chl-py-po veinlet at 196.29 m cuts the rock at 35 deg. TCA and cross cuts an earlier chl-sulph stringer with far less sulphides. Thin 1 mm wide clear qtz-sulph veinlet at 35 deg. TCA is cross cut by 2 5 mm wide clear qtz-py-po-sb(?) veinlets at 35 deg. TCA at 197.88 m. Sheeted thin qtz-po-cpy veinlets with orientations of 40 deg. TCA cross cut and offset (1 mm) a chl-ep +ab halo vein oriented at 15 deg. TCA at 198.32 m. Qtz-mo(?)-bt(?) veinlet at 198.58 m cuts the rock at 50 deg. TCA. Large po and cpy blebs within a qtz vein cut the rock at an parallel orientation to the drill core at 200.66 m. 7.5 cm wide bt-qtz-chl-po-py vein cuts the rock at 60 deg. TCA at 201.22 m. 10 cb fracture fill veinlets over 204.22 – 207.0 m occur. Fractures contain some clay and small halos – probably clay after ab. Black 5 cm wide qtz-sulph-chl-bt vein cuts the rock at 50 deg. TCA at 205.67 m. Clear 2 mm wide qtz-cpy-py with sharp margins cuts the rock at 65 deg. TCA at 208.35 m. 1-2 mm wide, wispy qtz-chl-bt(?)-sulph veinlet with selvage cuts the rock at 60 deg. TCA at 208.61 m. Qtz-bt-po-py-cpy veinlet with qtz-bt selvage (1 mm either side) cuts rock at 25 deg. TCA at 209.41 m. Chl-po-py veinlet cuts the rock at 65 deg. TCA at 209.51 m. qtz-py-cpy-po with bt-qtz-kspar(?) halo (2 cm on either side) veinlet cuts the rock at 60 deg. TCA. At 212.46 m and 212.72 m. Thin, wispy chl-py (>80% of veinlet) veinlet with an orientation of 25 deg. TCA is cross cut by a qtz-chl-sulph veinlet with sharp boundaries that is oriented 45 deg. TCA at 213.03 m. K-spar alt halo around a bt-qtz-po-py vein at 215.0 m. 2 parallel chl-sulph veinlets with wispy shape cut the rock at 25 deg. TCA within 4 cm of one another at 219.90 m. Wispy, 5 mm wide chl-bt-qtz cuts the rock at 20 deg. TCA at 218.30 m. 22 cm wide bt alteration zone and associated kspar alt halo associated with sheeted chl-sulph veinlets that cut the rock at 30 deg. TCA (~10 over the interval); Sulph include po-py-cpy. At 220.80 m, there are chl-sulph veinlets that cut the rock at 30 deg. TCA 15 over 15 cm. Undulating and discontinuous qtz-po veinlet (+kspar halo?) at 226.95 m cuts the rock at 40 deg. TCA and two thin, wispy qtz-chl-sulph stringers that cut the rock at 60 deg. TCA. 1.3-1.5 cm wide clear to white qtz vein with prt-cpy(?) with 2.5 cm wide bt halo on either side cuts the rock at 50 deg. TCA at 228.30 m. Qtz-po-py veinlet cuts the rock at 30 deg. TCA at 229.25 m. Qtz-bt-po veinlet at 30 deg. TCA cross cut by qtz-ser(?)-bt-sulph-kspar(?) at 55 deg.				Potassic	Weak-mc	Propylitic	Weak	2	0.2	1	0			

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RVD17-02	N. Mostaghimi					188.65	193.01	Zone of moderate pale greenish-yellow to pale green sericite alteration after feldspars. 2 qtz-cb-sulph veins of 1 cm and 9 cm wide cross cut the rock.			Phyllic	Moderate							
RVD17-02	N. Mostaghimi					224.25	224.6	Clay and pale pink cb alteration zone associated with a fracture with cb infill half-way through the interval.			Carbonati	Strong							
RVD17-02	N. Mostaghimi					250	350	Po:2.5-5% and cpy: 0.5-0.7%					4	0.6					
RVD17-02	N. Mostaghimi					250.24	350	Fracture at 250.54 m with clay-cb infill cuts the rock at 65 deg. TCA. Zone contians increase in white clays and green to pale green ser.			Carbonati	Strong							
RVD17-02	N. Mostaghimi					251.19	251.61	Fracture at 251.49 m cuts the rock at 40 deg. TCA and contains a 1-2 mm wide pale to opaque white cb. Zone contains an increase in pale yellow and pale green ser and alteration (weak – moderate).			Phyllic	Weak-moderate							
RVD17-02	N. Mostaghimi					252.54	252.85	Wispy, cb-sulph-qtz veinlet cuts the rock at 45 deg. TCA. Zone of weak-moderate ser and clay alteration.			Phyllic	Weak							
RVD17-02	N. Mostaghimi					254.16	254.4	Moderate sericitization			Phyllic	Moderate							
RVD17-02	N. Mostaghimi					258.98	266.07	Stockwork bt veinlets with qtz selvage alteration. Bt-veinlets cut the rock at 15-20 deg. TCA and 60 deg. TCA. Ep-chl-py vein with ab halo at 263.52 m.											
RVD17-02	N. Mostaghimi					270.58	270.8	Zone of weak-moderate ser alteration associated with a fracture fill vein with cb-qtz-chl(?)-sulph that cuts the rock at 65 deg. TCA.			Phyllic	Weak-moderate							
RVD17-02	N. Mostaghimi					278.55	278.82	Moderate green to pale yellowish green ser alteration. Cb-qtz veinlet cuts rock at 55 deg. TCA and chl-stringers cut the rock at 45 deg. TCA.			Phyllic	Moderate							

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RVD17-02	N. Mostaghimi					279.95	281.49	Zone of moderate-strong clay alteration and brecciation. Brx from 280.68 -280.88 m which cuts the rock at 30 deg. TCA; fault at 280.88 m and cuts the rock at 25 deg. TCA; Fault zone ends at 281.88 m and cuts rock at 20 deg. TCA. Late(?) qtz vein with dilation jog at 280.17 m and cuts the rock at 30 deg. TCA.										
RVD17-02	N. Mostaghimi					289.92	290.46	Dark brownish-purple rock; Strong bt alteration(?). 3 cm wide barren qtz vein cuts the rock at 40 deg. TCA at 290.26 m.			Potassic	Strong							
RVD17-02	N. Mostaghimi					291.61	291.81	2 mm wide chl-ep-qtz veinlet cuts the rock at 50 deg. TCA; zone contains mod-strong bt alteration and kspar(?) alteration?											
RVD17-02	N. Mostaghimi					293.36	294.08	293.46 m: cb infill of fracture cuts rock at 20 deg. TCA. 293.56 m: 25 deg. TCA fracture-infilled clay. 293.58 m: 25 deg. TCA fracture-infilled 293.78 m: bt altered plag megacrysts										
RVD17-02	N. Mostaghimi					304.58	305.38	Sheeted bt(?) veinlets cut the rock at 60 deg. TCA.											
RVD17-02	N. Mostaghimi					308.44	310.2	Stockwork qtz veinlets. Bt stringers are wavy and cut the rock at 50 deg. TCA and 0-10 deg. TCA. High concentration over 10 cm at 309.62 m.											
RVD17-02	N. Mostaghimi					326	330.97	Bt(chl?) veinlets at 35 deg. TCA occur 3-6 per 10 cm.											

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RVD17-02	N. Mostaghimi					334.76	349.1	Mod-strong bt-kspar(?)-qtz alteration zone with increased undulating qtz-po-cpy veins at 20-25 deg. TCA (e.g., 335.03 m, 336.20 m, 336.35 m, and 338.38 m) and 0-10 deg (e.g., 342.16 m). TCA. Bt veinlets occur at 30 deg. TCA. 4.5 cm wide aplite dyke oriented at 65 deg. TCA at 339.17 m is cross cut by a bt-qtz veinlet at 50 deg. TCA. 4.5 cm wide aplite dyke oriented at 80 deg. TCA at 339.60 m is cross cut by a qtz vein(?). Fracture cb-infill at 344.47 m cuts the rock at 30 deg. TCA. A 12 cm long dark, fine-grained py bleb occurs within a 3-4 mm wide qtz vein (70-80% of vein) oriented 20 deg. TCA at 346.80 m. The dark py contains the lighter, brassy py variety (2-4% of vein) along the dark py boundaries.			Potassic	Moderate-strong							
RVD17-02	N. Mostaghimi					370.55	376.34	Increase in ser and clay alteration to weak and weak-moderate intensities. Aplite dyke cuts the rock at 75 deg. TCA at 370.95 m. Peach-coloured cb – possible fracture-infill at 371.80 m at 30 deg. TCA. Fracture-infill at 374.77 m cuts the rock with an orientation of 30 deg. TCA. Fracture with clay infill at 376.15 m, cuts the rock at 60 deg. TCA and separates a 16 cm wide aplite dyke.			Phyllic	Weak-moderate							

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RVD17-02	N. Mostaghimi	377	425.6	GRD	Weakly Propylitically Altered with zones of weak Potassic(?) alteration Weakly propylitically altered biotite-granite is seldom overprinted intermittently by generally weak potassic(?) and sericitic zones. Relative to the rest of the drill hole, this section contains zones of intense aplite dykes cross cut the biotite-granite. Mafic autoliths are generally uncommon, but a large 10 cm dyke occurs at 380.18 m. 4.5 cm wide dyke cuts the rock at 55 deg. TCA at 380.80 m. 2 cm wide aplite dyke at 383.52 m cuts the rock at 60 deg. TCA. 1.5 cm wide aplite dykelet at 386.0 m. 5.5 cm wide aplite dyke at 389.80 m cuts the rock at 80 deg. TCA. 3.5 cm wide aplite dyke cuts the rock at 35 deg. TCA at 392.94 m. 5 cm wide aplite dyke cuts the rock at 30 deg. TCA at 394.12 m. >5 cm wide aplite dyke at 394.93 m cuts the rock at 60 deg. TCA. 10 cm wide aplite dyke at 410.98 m cuts the rock at 35 deg. TCA Alteration: Weak Bt alteration; Trace Kspar(?) alteration in intermittent zones. Carbonate and clay alteration typically occur along fracture surfaces and within 5 cm of those surfaces up to moderate intensity. Strong biotite alteration at 385.40 m over 10 cm. Oxidation: 0 Veins: Undulating 5 mm wide qtz vein with chl clots (mafic enclaves) and 10-15% po and minor cpy blebs are not common but cut rock at 30 deg. TCA. Cb-veinlets at 423.0 m cuts the rock at 20 deg. TCA. Bt-qtz-kspar(?) veins are not common and when they occur they may be split by later 'undulating' qtz+/-chl-po+/-cpy; e.g., one cuts the rock at 50 deg. TCA at 423.94 m. Qtz-sulph (po>cpy>py) vein Mineralization: The mineralization decreases with the lack of potassic alteration (veins and pervasively). Large 7 cm long and 1.5 cm wide bleb of po with minor cpy at 383.97; chl is associated with the sulphides around the boundaries. Appears to be disseminated semi-massive, however the drill core might just be cross-cutting a vein at a parallel orientation. Disseminated sulphides occur at 10-20% of mafics to po; <1% to cpy. Py: 0.3-0.6%; Po: 1-2%; Cpy: 0.05. Structure: Two large fault zones cut this interval. Fracture-infill with cb-clays at 390.72 m cuts the rock at 20 deg. TCA and another bt-qtz-chl-kspar(?) vein that cuts the rock at 50 deg. TCA. Minor fault (3 mm) wide with clay-cb infill cuts the rock at 30 deg. TCA – There is an ab(?) halo, so a chl-ep-ab vein may have been re-exposed.				Potassic	Weak	Propylitic	Weak	1.5	0.1	0.5			
RVD17-02	N. Mostaghimi					385.4	385.5	Bt Alteration			Potassic	Strong							
RVD17-02	N. Mostaghimi					394.79	408.48	Zone of fractured rock and rubble with cb alteration typically along fractures and coating rubble fragments. Fault <1 mm at 394.93 m with orientation of 35 deg. TCA cross cuts and offsets an aplite dyke and biotite granite. Rubble (<5 cm fragments) from 402.75 – 404.57 m. 10 cm wide aplite dyke cross cuts 395.74 m and cuts the rock at 60 deg. TCA. 6 cm wide aplite dyke at 405.94 m cuts the rock at 35 deg. TCA. Bt(?)-chl(?) rich zone from 401.97 - 402.04 m cuts the rock at 30 deg. TCA.			Carbonate	Moderate							

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RVD17-02	N. Mostaghimi					412.47	420.55	Zone of faulting and carbonate and clay (moderate) alteration typically associated with fractures. Fault at 416.53 m cuts the rock at 40 deg. TCA – fault is 1-3 cm wide and contains a cb vein. Fault zone from 417.19 (45 deg. TCA) – 419.84 m (25 deg. TCA). There is another small fault at 35 deg. TCA at 419.70 m. The fault zone is mostly comprised of rubble and rock fragments. Fracture-infill at 420.31 m cuts the rock at 40 deg. TCA. Cb veinlets that cut rock at 70 deg. TCA occur 5-10/metre.			Carbonate	Moderate						
RVD17-02	N. Mostaghimi	425.6	489	GRD	High density aplite dykes cross cut Bt-Granite The biotite-granite is cross cut by 1-3 aplite dykes that vary in size from 2 cm to 20 cm; e.g., 40 cm dyke at 447.99 m at 40 deg. TCA; Aplite dyke at 452.02 – 452.96 m cuts the rock at 70-80 cuts the rock at 70-80 deg. TCA; 20 cm wide aplite dyke at 456.92 cuts the rock at 90 deg. TCA and is cross-cut by a 1 mm wide qtz-veinlet with sharp margins and po-cpy (30 deg. TCA) and a wispy chl veinlet 3 mm wide with sulphides and cb infill (60 deg. TCA). Aplite dyke at 489.38 - 489.92 m cuts the rock at 55 deg. TCA and contains a small pegmatitic dyke at one of its contacts. Pegmatite dykes are observed with large (1-2 cm) crystal grains of feldspars and quartz with <5% mafic minerals. The mafic minerals are fine-grained. The pegmatite dykes occur at the contacts of aplite dykes at angles of ~80 deg. TCA; e.g., 10 cm wide at 443.75 m. Mafic enclaves are common thorughout the zone, however a notable 14 cm large, square shaped autolith occurs at 456.40 m. Alteration: Weak propylitic alteration defined by uncommon chl-stringers and chl-ep veins. Mafics are trace to weakly altered chl. Feldspars are weakly-moderately altered to ab, ser. Bt alteration associated with stringers and aggregates of stringers+qtz+kspar(?) halos are not common but occur (weak). Qtz veinlets and veins cross cut bt and chl stringers and commonly split them. Zones of increased qtz-veins occur in this zone. Late cb veinletes cross cut and split other veins. Veins: Weakly undulating, late mineralization-stage qtz veins that range in size from 3 mm – 3 cm wide are associated with 0-10% cpy and 5-30% po contain clear qtz with large crystal sizes and occur at 0-10 and 30, and at times 45-55 deg. TCA. There is an increase in mo within this zone associated with these qtz-veins, especially between 462.26 – 467.30 m. Chl clots that occur in these undulating qtz veins are simply mafic enclaves of various sizes that may have been entrained in the fluid and potentially transported and chloritized, e.g., at 444.0 m with an orientation of 35 deg. TCA. At times, there are increased sulphide grades associated with mafic enclaves altered within these qtz-veins. Qtz-sulph(prt-cpy) veinlets typically at 20 deg. TCA and occur 1/10 cm. Dyke at 452.02-452.96 m is cut by bt-alteration and split by a undulating late mineralization-stage qtz-vein that is 2 cm wide and contains po-cpy-mo at 452.22 mm at 40 deg. TCA. Qtz vein with cpy-po cuts the rock at 0 deg. TCA from 455.10 – 456.22 m. Chl-prt-cpy wispy vein 4 mm wide with cb-infill cuts the rock at 55 deg. TCA at 485.78 m and contians >30 cm of ser alt on either side. Mineralization: Mineralization associated with primary mafics and alteration veins increases. 2-3.5% po and 0.25-0.5% cpy. Mo: tr, and 0.04-0.1% from 462.26 – 467.30 m; Py: <1%. Qtz-vein at 456.35 mm cuts the rock at 55 deg. TCA and contains a 5.5 mm long po grain with cpy mineralization around the margin of the po. This may suggest a timing relationship between the po and later cpy.				Silica	Moderate	Propylitic	Weak	3	0.4	1	0		

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RVD17-02	N. Mostaghimi					425.64	436.51	Zone of high density of aplite dykes that cut the biotite-granite but are cross cut by chl-ep, chl+/-sulph and cb veinlets. Po blebs with cpy at 433.10 m Aplite dykes: 5 cm wide at 425.64 m at 75 deg. TCA 426.30 – 426.43 m at 55 deg. TCA is also cross cut by a chl-ep veinlet. 426.79 – 427.11 m at 65 deg. TCA. 427.26 – 427.36 m at 60 deg. TCA. 428.44 – 428.32 m at 50 deg. TCA 430.32 – 430.87 m at 50-55 deg. TCA. 431.13 – 431.29 m at 45 deg. TCA. Fragmented dyke at 431.29 – 431.39? m 433.18 – 434.12 m at 45 deg. TCA with 1-2% po blebs and cross cut by chl sulph veinlets at 20 deg. TCA. 3 cm dyke at 434.74 m cuts the rock at 45 deg. TCA. 436.25 – 436.51 m at 35 deg. TCA cross cut by a chl-ep vein.										
RVD17-02	N. Mostaghimi					461.48	472.01	Zone of 55-65% aplite dykes that cross cut the bt-granite. This zone contains a high concentration of pegmatite dykes typically associated with the aplite dykes. Aplite dyke at 462.26 m is cross cut and offset by chl stringers (5 deg. TCA) and qtz-mo veins that join with bt-veinlets+/-sulph (30 deg. TCA). Mafic anclave altered to chl and sulphides at 467.20 m. Qtz-veins with a line of mo mineralization at 467.20 m cuts the rock at 40 deg. TCA. Pegmatite dyke: 461.48 m: 7-9 cm wide at 70 deg. TCA 464.22 – 464.33 m: 40 deg. TCA 465.26 m: 70 deg. TCA 465.83 m: 8 cm wide										
RVD17-02	N. Mostaghimi					462.26	467.3	0.04-0.1% Mo mineralization								0.1			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-02	N. Mostaghimi					469.82	476.56	Zone of >70% aplite dyke cross cut by mineralization-stage veins. Pegmatite dyke at 475.58 m a least 5 cm wide.											
RVD17-02	N. Mostaghimi					481.26	482.58	Aplite dyke from 481.50 – 481.88 m cuts the rock at 40 deg. TCA flanked by weak-moderate ser-clay alteration.	Carbonate	Weak-mc	Phyllic	Weak-moderate							
RVD17-02	N. Mostaghimi					482.58	484.76	Fault zone cataclastic rock. Fault contact at 482.58 m is 30 deg. TCA and contains clay-cb. 4 cm wide fault at 483.60 m with mostly clays – matrix-supported (ultra-cataclasite(?)). Qtz veins and cb veins cross cut the fault. Cb veins are 1.5 cm wide, white and cut the rock at 20 deg. TCA. From 483.83 – 484.76 m mod sericite, mod-strong clay alt and clay pervasive alteration.	Carbonate	Moderate	Phyllic	Moderate-strong							
RVD17-03	N. Mostaghimi	0	12.85	GRD	Overburden Strongly fractured and weathered granite. Mineralization occurs as both sulphides and hydrous sulphides along fractures in minimal amounts. Alteration: Alteration comprises strong clay alteration and weathering to lim. Goethite along fracture surfaces at 3.05 – 5.79 m. Propylitic alteration is weak to moderate and comprises of chl-sulph adn uncommon chl-ep veinlets and chl and ep alt of mafics. Cb alteration cross cuts and splits propylitic veins and veinlets. Oxidation: 4 Veins: Veinlets comprise of chl-sulph wispy veinlets cross cut by cb-veins and veinlets. A strongly oxidized qtz-vein occurs at 11.00 m and cuts the rock at 10-20 deg. TCA. Chl-sulph veinlets cut the rock Mineralization: Minor mal occurs along a few different fracture surfaces; e.g, 10.69 m; 11.37 m. Py, po and cpy are associated with chl-sulph veinlets – and as very fine grained mineralization after mafics in granite. Py: 4-7%; Cpy: 0.1-0.25%; Po: 0.5-2%. Structure: Rock is strongly broken up and fragmented to 7.82 m (rock is unconsolidated and fragments <5 cm in size - rubble). Rock is intensely broken and fragmented again from 10.69 – 12.85 m (rubble).				Carbonate	Weak to I	Propylitic	Weak to	5.5	0.2	1	0		
RVD17-03	N. Mostaghimi					3.05	5.79	Goethite along fracture surfaces											

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RVD17-03	N. Mostaghimi	12.85	36.14	GRD	Strongly Oxidized Granite with Propylitic Alteration Strongly oxidized granite with a lower interval of oxidation solely along fractured surfaces. Chl-sulph veinlets are very common and the sulphdes are mostly to completely oxidized. Alteration: Strong to moderate to strong pervasive clay alteration is common typically near fractures and faults – as well as cb alteration. Cb alteration is also associated with cb veins and veinlets that cross cut veinlets associated with propylitic alteration. Propylitic alteration comprises chl-sulph veinlets and weak pervasive chl after mafics and alt of feldspars. Veins: Wispy <1 mm wide chl-sulph veinlets that cut the rock at 50 deg. TCA and 20 deg. TCA. Some veinlets contain an aggregate of chl-veinlets and are wider at 2-3 mm. The veinlets are cross cut and at times split by cb veinlets that typically cut the rock at 45 deg. TCA. Uncommon chl-ep-py veins are observed near the end of the zone with less intense oxidation; 33.50 m. E.g., Cpy and py associated with chl-sulph veinlet at 14.84 m cuts the rock at 15 deg. TCA. Cpy associated chl-sulph wispy veinlet at 14.24 m cuts the rock at 10 deg. TCA. 18.92 m and 19.12 m at 50 deg. TCA; 19.47 m at 35 TCA; 22.16 m at 30 deg. TCA; 29.89 m. Mineralization: Py mineralization is the most common mineralization in this interval and occurs within chl-sulph and chl-ep veinlets. Po mineralization is associated with py both in mafic minerals in granite and in veins – cpy as well but at lower quantities. Py: 4-7%; Po: 0.5-2%; Cpy: 0.1-0.25%. Structure: Discrete fault at 24.38 m, 3 cm wide cuts the rock at 70 deg. TCA and contains a cb-qtz vein.				Carbonate	Weak to l	Propylitic	Weak to	5.5	0.2	1	0		
RVD17-03	N. Mostaghimi					12.85	31.2	Strongly oxidized rock (4) comprises of lim and trace-weak goethite along some fracture surfaces. Alteration comprises wispy (<1 mm wide) chl-py+/-po veinlets.											
RVD17-03	N. Mostaghimi					21.96	31.67	Zone of increased stockwork chl-py+/-po+/-cpy veinlets. These veinlets occur 3-5 times per 10 cm and cross cut at 30 and 40 deg. TCA. Chl-ep vein at 31.26 – 31.67 m cuts the rock at 10 deg. TCA. Chl-ep veins are not common.											
RVD17-03	N. Mostaghimi					31.2	37.1	Lim alteration along fractured surfaces (1). Weak to trace propylitic alteration.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-03	N. Mostaghimi	37.14	70.26	GRD	Weak-moderate phyllic alteration overprints granodiorite Granite is altered by propylitic alteration that is overprinted weakly-moderately by phyllic alteration. Mineralization is low-grade. Autolith at 43.19 m. Sericitized autolith at 57.37 m. Alteration: Weak-moderate phyllyic alteration defined by pervasive qtz, and ser after feldspars and QSP veins. Phyllic alteration overprints a weak to trace propyltic alteration defined by chl-ep and chl-sulph veinlets. Uncommon ep after mafics in the granite is also observed. Pervasive, weak bt(?) alteration after mafics at 69.42 – 70.26 m. Oxidation: Lim+/-goethite oxidation typically occurs only along fractured surfaces (1). Veins: Wispy, chl-sulph cross cut by QSP veins. QSP veins range from 2 mm – 2 cm wide and contain ser halos and sulphides occur as clusters along the middle of the veins. Both are cross cut and split by cb veinlets. QSP veins occur 1-2 times per 10 cm. Large, 5 mm wide QSP vein at 47.29 m cuts the rock at 15 deg. TCA. 2 mm wide QSP veinlets at 50.74, 50.84 m. Conjugate QSP veinlets at 52.20 m cut the rock at 25 deg. TCA. QSP veinlet at 54.96 m cuts the rock at 35 deg. TCA. Large qtz-(pale pink)cb-chl vein at 43.19 m and cuts the rock at 10 deg. TCA. Qsp vein at 64.65 m cuts the rock at 30 deg. TCA. QSP vein at 65.07 m cuts the rock at 30 deg. TCA. QSP vein with pink cb (7 mm wide) parallel to grey cb vein with sharp margins (6 mm wide) both cut the rock at 80 deg. TCA at 65.49 m. QSP vein is cross cut by cb veinlets that connect to grey cb vein at 10 deg. TCA. QSP vein with cb and high concentrations of py at 65.95 m. QSP vein with cpy at 68.17 m cuts the rock at 40 deg. TCA. Pink cb vein with green ser cuts the rock at 50 deg. TCA at 69.20 m. Mineralization: Py is the most common mineralization associated with QSP veins and chl-sulph wispy veinlets. Py is also associated with mafic minerals in the granite (<10% of mafics). Cpy is not common and may occur with chl-sulph veinlets and rarely with QSP veins. Po occurs with py in QSP and chl-sulph veinlets as well disseminated. Py: 4-6%; Po: 1-2%; Cpy: <0.1% Structures: 5 cm wide fault at 60.86 m and 6 cm fault at 61.19 m both cut the rock at 30 deg. TCA. The lower boundary of the fault contans cb-clay infill. Both faults contain veins that comprise qtz-cb(pink)-sulphides(py+/-cpy+/-po)-chl. The sulphides are concentrated along a line. The fault is flanked by a dark grey material believed to be chl. The vein in the fault is cross cut by white cb-veinlets that cut the rock at 10 deg TCA.				Phyllic	Moderati	Propylitic	Weak	5	0.1	1.5	0		
RVD17-03	N. Mostaghimi					38.69	44.2	Fractured rock (2-5 fractures per 10 cm) with lim along fractures.											
RVD17-03	N. Mostaghimi					44.66	47.24	Broken up rock with a small interval of caved rock.											
RVD17-03	N. Mostaghimi					44.66	45.72	Rubble with strongly oxidized rock (4).											
RVD17-03	N. Mostaghimi					47.36	48.38	Strong, pervasive white ser and clay alteration after feldspars.	Phyllic	Strong									
RVD17-03	N. Mostaghimi					64.65	69.6	Moderate and moderate to strong sericite(phyllic) alteration.	Phyllic	Moderate-strong									

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RVD17-03	N. Mostaghimi	70.26	114.3	GRD	Strong phyllic alteration zone Granite is strongly altered by phyllic alteration. Mafic autoliths are common and typically completely altered to a clay; e.g., 112.55 m. Cubic py within a altered autolith at 103.70 m. Alteration: Strong phyllic alteration overprints weak propylitic alteration. Phyllic alteration is defined by pervasive and destructive pale green to bright green and pale yellow to white ser alteration after feldspars as well as QSP veins. QSP veins occur as undulating 5 mm – 3 cm wide with large sulphide blebs that typically comprise py>>po>>cpy. Ser occurs as indistinct halos around these veins. In some areas where the phyllic alteration is not as strong some propylitic chl-sulph veinlets are still preserved. Cb alteration is strong throughout the interval typically as veins and veinlets that cut and split earlier veins. Clay alteration is also common, typically associated with cb and ser alteration, mostly near veins and fractured surfaces with a white colour. Veins: Intense veining occurs within this zone, mostly as QSP veins that have been cross cut and split by cb veins and veinlets. Cb veins occur as ~1 cm wide pale pink coloured veins and ~1 cm wide smoky grey veins, and white veinlets (<1 mm). All cb appear to cross cut phyllic alteration however, some cross-cutting relationships between different coloured cb veins also occur. E.g., Chl-sulph veinlets/stringers occur at 20 deg TCA from 83.11 – 83.82 m (2/10 cm). 50 deg. TCA at 84.03 m (3-5/10 cm). 65 deg. TCA from 75.44 – 76.20 m (5-7/10 cm). QSP veins occur at 65 deg. TCA at 74.80 m. 50 and 20 deg. TCA at 80.16 – 80.51 m. Thin QSP veins at 70 deg. TCA at 79.81 m. Large QSP vein at 81.40 – 81.75m cut the rock at 5 deg TCA cross cut by cb veinlet at 50 deg. TCA (1-2/10 cm). Cb pink veins occur at 20 deg. TCA: e.g., 73.65 m and 74.18 m. 5-10 deg. TCA at 77.40 m over 10 cm. White, thin cb veinlets cut rock at 10 and 50 deg. TCA at 111.50 m. Strong cpy mineralization in qtz-cb veinlet at 110.14 m that cuts the rock at 45 deg. TCA. Pink cb cuts rock at 35 deg. TCA and a QSP vein that cuts the rock at 15 deg. TCA. Mineralization: Py mineralization is the most common sulphide and typically associated with QSP veins but also occurs to <10% of mafics in the granite where mafics are not completely altered. Po occurs at about 10-20% of sulphides in veins and <5% as dissemination associated with mafics. Py mineralization occurs as both brassy and dark, dull coloured types. Cubic py is also observed. Cpy is not common but may occur within QSP veins associated with py+/-po as well as dissemination. High concentration of cpy within a QSP vein at 78.25 m. Py: 6-8%; Po: 2-3%; Cpy: <0.25%; Mo: tr. Structure: Fault or fracture-infilled 109.70 m at 45 deg. TCA. 108.86 – 109.12 m fault with clay-cb infill cuts the rock at 45 deg. TCA.				Phyllic	Strong	Propylitic	Weak	7	0.3	2.5	0			
RVD17-03	N. Mostaghimi					70.26	78.2	Moderate phyllic alteration.			Phyllic	Moderate							
RVD17-03	N. Mostaghimi					84.64	88.75	1/20 cm of 20 deg. TCA chl-sulph veins split by cb clay infill.			Carbonate	Strong							
RVD17-03	N. Mostaghimi					84.64	89.39	Moderate-strong, dark grey chl and strong clay and cb alteration associated with intense veining. Fault with 20 deg. TCA contact.	Carbonate	Moderate	Phyllic	Moderate-strong							
RVD17-03	N. Mostaghimi					91.81	99.69	Red oxidation(?) mineral. Appears to be surficial or near surface and maybe a clay mineral. Weak intensity and associated with feldspar grains.											
RVD17-03	N. Mostaghimi					89.39	114.4	Mineralization increases slightly (cpy occurs as small blebs in QSP veins. Cpy: 0.25-0.5%.						0.4					

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RVD17-03	N. Mostaghimi	114.3	134.9	GRD	Weak-moderate propylitic alteration zone Weak-moderate propylitic alteration of granite. Cb alteration is weak but overprints propylitic alteration with veins that cross cut and split earlier veins. Mineralization slightly increases from the previous interval as both dissemination and within veinlets. Aplite dykes cross cut the rock at 118.16 m at 75 deg. TCA; 127.47 m at 85 deg. TCA. Alteration: Propylitic alteration is defined by chl-sulph veinlets that occur 1-3 per 10 cm and chl-ep veins that occur 1 per 20-40 cm. Mafics are weakly-moderately altered to chl. Veins: Chl-ep alteration veins at 119.10 to 119.19 m. Cut the rock at 60 deg. TCA. Chl-sulph veinlets cut the rock at 20-30 deg. Mineralization: Mineralization is within this interval and typically associated with chl-sulph veinlets and mafics in the granite. Py is the most common at 10-15% py within mafics (dissemination); 2-5% cpy of mafics in granite. Po occurs 5-10% of mafics. Py: 4-6%; Po: 1-3%; Cpy: 0.3-0.6%. Structure:				Carbonate	Weak	Propylitic	Weak-Mo	5	0.5	2				
RVD17-03	N. Mostaghimi					115.57	116.31	Weak-moderate ser alt interval.			Phyllic	Weak-Moderate							
RVD17-03	N. Mostaghimi					124.05	124.66	Moderate-strong chl-sulph vein (3-4 per 10 cm) cut at 20-25 deg. TCA.			Propylitic	Moderate-strong							
RVD17-03	N. Mostaghimi	134.9	261.6	GRD	Weak-moderately bt alteration and qtz-sulph veins with intermittent zones of phyllic alteration overprint Mafic enclaves are common in this interval and commonly altered in zones of phyllic alteration. Strongly clay/ser altered autolith at 221.49 – 221.73 m. Aplite dykes are common and vary in size – they typically contain sharp boundaries with the granite. Aplite dyke at 139.48 – 139.71 m cuts the rock at 80 deg. TCA. 196.60 - 196.66 m contains an aplite dyke. Aplite dyke at 216.63 – 217.04 m cuts the rock at 70 deg. TCA. 229.17 – 229.54 aplite dyke with a gradational contact at 55 deg TCA. Aplite dyke at 229.64 – 229.74 m at 60 deg. TCA. Alteration: Weakly bt altered granite with cross-cutting qtz-veins. Bt alteration occurs as flooded zones (sometimes with strong intensity) and/or with bt stringers. The mafics in the granite are weakly-moderately altered to bt and weak-trace to chl. Qtz-veins are often in stockwork configuration and some of which may be associated with kspar alteration halos are cut by cb (grey and pink)-sulph-qtz+/-ser veins (QSP?) and smaller QSP veins with ser halos. The two latter vein types are more strongly associated with intermittent intervals of moderate-strong phyllic alteration along with pervasive white and pale green ser alteration of feldspars. The mafics in the granite are typicall moderately-strongly altered to chl in these zones. Pervasive clay and cb alteration is associated with zones of increased vein density and fractures/faults. Veins: Wispy cb-chl(?)-blebby sulph(py+/-py+/-cpy+/-mo) veins are common in this interval and range in size from 4 mm – 3 or 4 cm, especially within zones of increased phyllic alteration. These veins are commonly 20-30 deg. TCA. These veins cross cut qtz-sulph(+/-py+/-cpy+/-po?-mo)+/-chl veins, e.g., 150.71 m; Qtz-veins are typically 50-60 deg. TCA. These qtz veins typically contain sharp vein margins and can also range from 3 mm – 4 or 5 cm and have a strong relationship between increased sulphides and chloritization of mafic enclaves of various sizes; e.g., 201.75 m. Cb infill of and cross-cutting of both veins are common however, there is more cb associated with the wispy Mineralization: Cpy and mo mineralization is relatively high in this interval compared to previous intervals. Py and po mineralization are similar to the previous interval. Disseminated mineralization in the phyllic zones are higher than zones of bt-qtz-chl alteration. In phyllic zones, ~30-40% of mafics contain sulph compared to 5-10%. Py: 6-8%; Po: 3-5%; Cpy: 0.8%; Mo: 0.006%. Structure: There are not many faults in this interval. They are typically associated with phyllic alteration zones.				Phyllic	Moderate	Potassic	Moderate	7	0.8	4	0			
RVD17-03	N. Mostaghimi					134.43	134.53	10 cm wide bt alteration at with a 1.5 cm wide qtz vein with py+po that split the bt alteration at 75 deg. TCA at 134.43 m.			Potassic	Moderate-strong							
RVD17-03	N. Mostaghimi					137.59	137.88	Weakly sericitized by green ser. 2 cb veinlets cut the rock at 20 deg. TCA (1/10 cm).			Phyllic	Weak							
RVD17-03	N. Mostaghimi					144.75	146.15	Strong pervasive clay and ser alteration. 2 cm wide cb vein with multiple generations of cb veinlets cut the rock at 35 and 30 deg. TCA	Carbonate	Moderate	Phyllic	Strong							

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RVD17-03	N. Mostaghimi					147.64	153.92	Strong phyllic alteration and overprint of Qtz veins/ potassic alteration(?). QSP veins at 70-80 deg. TCA at 152.60 and 152.75 both 6 cm wide including the halo.	Phyllic	Strong	Potassic	Weak-Mc	9	1	4	0.1			
RVD17-03	N. Mostaghimi					149.96	150.88	Moderate red clay(?) pervasive alteration/oxidation of feldspars.											
RVD17-03	N. Mostaghimi					157.48	163.6	Stockwork qtz-sulph(+cpy)-chl veinlets at 60 and 10 deg. TCA, as well as bt(after chl stringers?) stringers at 0-10 deg TCA and 20 deg. TCA.			Potassic	Strong	9	1	4	0			
RVD17-03	N. Mostaghimi					163.09	163.51	Porphyritic dyke with mafic groundmass (vfg) cuts the rock at 20 deg. TCA. 3-5 mm wide euohedral to subhedral (10-15%) qtz. Trace alteration.											
RVD17-03	N. Mostaghimi					167.02	167.09	Strong bt alteration of a mafic autolith(?) cross cut by a qtz-chl-sulph vein with sharp margins with orientation of 30 deg. TCA.			Potassic	Strong							
RVD17-03	N. Mostaghimi					168.66	174.31	Strong pervasive clay and ser alteration. Cb-sulph-(dark)chl veins occur at relatively high density at 20 deg. TCA and cross cuts (1-3 mm wide) QSP veins (1-3/10 cm).	Phyllic	Moderat	Potassic	Strong	9	1	4	0			
RVD17-03	N. Mostaghimi					170.38	170.5	Fault zone. Fault at 170.38 m is 2 mm wide and cuts the rock at 80 deg. TCA with strong clay-cb infill. Cb veinlets cross cut with brecciation.	Carbonate	Strong	Phyllic	Strong							
RVD17-03	N. Mostaghimi					178.45	178.8	Moderately sericitized.			Phyllic	Moderate							
RVD17-03	N. Mostaghimi					179.55	181.36	Strong pervasive bt alteration and stockwork qtz veins that occur at 10 and 30 deg. TCA and 4-6/10 cm. Possible kspar alteration associated with qtz-bt veins.			Potassic	Strong	8	0.8	3	0			
RVD17-03	N. Mostaghimi					179.55	197.69	Moderate sericitization and moderate bt alteration.	Phyllic	Moderat	Potassic	Moderate							
RVD17-03	N. Mostaghimi					191.69	195.48	Strong clay, cb and sericitization. Pink cb infills voids. Mo mineralization increases and is associated with qtz veins with high py content that cut the rock at 20 deg. TCA.	Carbonate	Strong	Phyllic	Strong							

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RVD17-03	N. Mostaghimi					197.98	198.59	Moderate bt alteration in the form of bt stringers.			Potassic	Moderate							
RVD17-03	N. Mostaghimi					214.78	215.32	1.5 cm wide qtz-sulph vein with sharp margins. >60% cpy, >15% po. Chl along the margins. Parallel to a veinlet (2 mm wide) with a line of mo mineralization. Cuts rock at 30 deg. TCA. Two smaller veins with cpy mineralization also occur within this interval.			Potassic	Strong	4	13	8	0.8			
RVD17-03	N. Mostaghimi					214.78	217.93	Stockwork qtz veining with strong cpy mineralization. Pervasive qtz alteration. Qtz veins occur at 20-30 and 45 deg. TCA. Moderate bt alteration.			Potassic	Moderate	6	2.5	3.5	0.1			
RVD17-03	N. Mostaghimi					220.03	221.73	Moderate-strong ser-clay alteration. Cb vein cuts rock at 45 deg. TCA at 220.03 m. Mo vein at 220.98 m at 30 deg. TCA.	Phyllic	Moderate	Potassic	Moderate	6	2.5	3.5	0.1			
RVD17-03	N. Mostaghimi					230.27	235.14	Weak to trace bt alteration of granite with an increase in aplite dykes. Plag megacrysts only become very apparent in the granite. Aplite dyke at 230.89 – 231.17 at 60 deg. TCA. Aplite dyke at 233.47 – 233.50 mand 233.60 – 233.64 m at 85 deg. TCA. 234.90 – 234.93 m at 70 deg. TCA.			Potassic	Weak to Trace							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-03	N. Mostaghimi					235.14	243.1	Increase in frequency of qtz-veins that range in size from 3 mm to 2 cm in width – and typically contain sharp vein boundaries that cut the rock at 10-15 deg. TCA. These veins contain high mo and cpy mineralization in this interval and are cross cut by large cb-qtz-sulph(py+/-cpy+/-mo) veins at 20 deg. TCA, e.g., 243.10 m. Chl-ep veins occur and cut the rock at 20 deg. TCA . Aplite dyke at 237. 33 – 238.40 m and cuts the rock at 70 deg. TCA. Mafic enclaves associated with a qtz-vein at 237.85 m in the aplite dyke suggest movement of the autolith due to hydrothermal activity since autolith are rarely observed within aplite dykes. Aplite dyke at 238.71 m cuts the rock at 80 deg. TCA.	Phyllic	Moderati	Potassic	Weak-Moderate							
RVD17-03	N. Mostaghimi					238.4	241.3	Mod-strong bt alteration in the form of stockwork veinlets and pervasive bt after chl after mafics.	Potassic	Moderati	Propylitic	Weak							
RVD17-03	N. Mostaghimi					241.3	242.25	Strong bt alteration and pervasive and stockwork bt veinlets. Contact of bt alteration at 60 deg. TCA.			Potassic	Strong							
RVD17-03	N. Mostaghimi					242.25	242.98	Moderate-strong pervasive qtz-ser and bt alteration – competent, dark brown.	Potassic	Moderati	Phyllic	Moderate							
RVD17-03	N. Mostaghimi					243.15	245.8	Fault zone with the upper bounding contact cutting the rock at 20 deg. TCA with cb-clay infill. Fault zone comprises healed broken up rock with clay and strong phyllic alteration. Lower boundary of the fault contains a fault that cuts the rock at 30 deg. TCA. Rubble between 244.45 - 244.50 m, and at 245.33 - 245.39 m. Carbonate alteration is strong.	Carbonati	Strong	Phyllic	Strong							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-03	N. Mostaghimi					243.15	245.14	Moderate-strong phyllic alteration zone cross cut and overprinted by cb alteration. Moderate cb alteration is defined by veinlets that cross cut and split all other veins and rock at 25-35 deg. TCA. Cpy and mo mineralization grade is higher than the main interval. Py: 6-8%; Po: 6-8%; Cpy: 1-2%; Mo: 0.75%.	Carbonate	Moderate	Phyllic	Moderate	7	1.5	7	0.8			
RVD17-03	N. Mostaghimi					250.14	260.82	Moderate phyllic alteration and lower mineralization grade – mo% is low. Leucoxene alteration(?) at 256.76 – 257.14 m. Cb veins are common and occur 1-3 per 10 cm. Qtz veins with trace mineralization instead of their typical high grade occur at 258.55 m cut the rock at 20 deg. TCA.			Phyllic	Moderate							
RVD17-03	N. Mostaghimi					258.96	260.82	Weak to moderate bt alteration; phyllic overprint is weak to trace.	Phyllic	Weak-tra	Potassic	Weak-Moderate							
RVD17-03	N. Mostaghimi	261.6	300.7	GRD	Granite is cut by chl-sulph, chl-ep veins and some qtz-chl-sulph veins. Propylitic alteration is trace to weak and is rarely overprinted by any other hydrothermal alteration assemblge. Late carbonate veinlets also cut the rock and propylitic alteration. Uncommon bt alteration after chl-veinlets and chl also occurs. Alteration: Propylitic alteration is defined by veins and pervasive chl alteration. Mafics are weakly altered to chl and contain <10% sulphides. Bt alteration overprint occurs sporadically and rarely. QSP veins are not common but also occur. Cb alteration is limited to veinlets that cross cut and split other veins and fracture-infill. Veins: Chl-ep veins cut the rock at 30-40 and 50-60 deg. TCA and may contain po and cpy and occur 1-2 per 1 metre. E.g., 268.00; 276.12 m; 283.86 m with strong po, cpy; 284.32 m; 286.38 m. Chl-sulph veinlets cut the rock at 20-30 deg. TCA and are not common on their own, but rather in small intervals of stockwork. E.g., 269.90 m Cb veinlets and fractures with cb-infill cut the rock at 20-25 deg. TCA. E.g., 261.56 – 269.85: 1-2/10 cm. Rare QSP veins are 1-2 mm wide and contain qtz-sulph and a 1-2 cm halo on either side of the vein margin. E.g., 275.17 m; 296.36 m. Mineralization: The most common mineralization is po and occurs in as high grades within chl-ep+/-cpy veins. Mineralization occurs as dissemination as well, <10%, where 2-5% is cpy. Py: 2-4%; Po: 4-6%; Cpy: 0.6%; Mo: tr.			Potassic	Weak-tra	Propylitic	Weak	3	0.6	5	0			
RVD17-03	N. Mostaghimi					279.1	292.97	Weak pervasive ser alteration and weak-trace sporadic bt after chl alteration. This slight increase in alteration is associated with a slight increase in the frequency of different vein types.	Phyllic	Weak	Potassic	Weak-trace							
RVD17-03	N. Mostaghimi					292.97	301.76	Slight increase to 2-4 mafic enclaves per 1 metre in relatively unaltered rock with rare veins that cross cut the rock.											

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RVD17-03	N. Mostaghimi	300.7	377.2	GRD	Weak- moderate bt alteration (potassic?) with intermittent zones of phyllic alteration and zones of elevated plag megacrysts and mafic autoliths Weak- moderate bt altered (Potassic?) granite rock with intermittent zones of phyllic alteration and zones of elevated frequency and sizes of plag megacrysts and mafic autoliths. Zones of pervasive chl and ser alteration to weak-moderate intensity. Plag megacrysts alter to ep with chl rims; e.g., 303.23 m and in association with chl-ep veins: 368.23 – 368.37 m. Aplite dykes are common and cut the granite – e.g., 320.31 m at 30 deg. TCA. Pegmatite with gradational boundary to aplite at 328.34; dyke cuts at 80 deg. TCA and is 9 cm wide. Large, 26 cm wide altered autolith at 330.08 m. Porphyritic dyke with high concentration of mafic minerals in the groundmass(?) at 332.13 m cuts the rock at 75 deg. TCA with a sharp contact (10% subhedral qtz grains). Aplite dyke at 335.50 – 335.60 m cuts the rock at 60 deg. TCA. Alteration: Weak-moderate potassic alteration is defined by pervasive bt alteration, stockwork bt veinlets and qtz-veins with bt alteration halos +/- kspar. Intermittent zones of more intensely altered rock to biotite are common. Phyllic overprint is typically associated to fractures, faults and veins. These zones typically also contain an elevation in clay alteration as well. Chl and ep alteration increases within the zone of high density plag megacrysts and mafic enclaves – chl alteration is associated with autoliths and ep and chl is associated with the plag megacrysts. Veins: Veins comprise of thin qtz-veins with bt halos that can be up to 3 cm on either side of the vein with diffuse boundaries. Bt(after chl?)-sulph-qtz veinlet (<1 mm wide) with ab(?) or kspar(?) 2 cm wide halo cuts the rock at 15-20 deg TCA is cross cut by a qtz-py-chl+/-po+/-cpy with a 9 cm wide halo that cuts the rock at 60 deg. TCA occurs from 310.90 – 310.08 m. Another qtz-vein with bt halo at 343.66 m cuts the rock at 80 deg. TCA; 348.02 – 348.12 m cuts the rock at 70 deg. TCA. Aplite dyke at 373.29 m at 70 deg. TCA ; 373.74 m at 45 deg. TCA; 376.29 m at 70 deg. TCA. Stockwork bt veinlets are suspected to have altered from chl-sulph veinlets (typically associated with propylitic alteration). Qtz-veins with sharp to undulating margins that typically contain the highest grade mineralization are common within this intervals as well. These veins cross cut the rock at 10-20 deg. TCA and 35-45 deg. TCA. Chl-ep veins also occur: at 15-25 deg. TCA. E.g., 313.70 m; 344.38 m; 345.59 m; 346.62 m Mineralization: Po, py, and cpy mineralization generally increases within zones of bt alteration. The cpy mineralization is commonly associated with altered mafics in the granite. Cpy mineralization is typically associated with undulating qtz-veins and commonly with po, and also in association with bt alteration. Mafic enclaves typically contain elevated amounts of po and minor to trace cpy. Qtz-veins that typically contain elevated concentrations of po-cpy mineralization commonly increase in grade in association to mafic autoliths. Py: 4-6%; Po: 6-8%; Cpy: 0.2-0.4%; Mo: tr. Structure: One major fault cuts this interval and is associated with a phyllic alteration halo. The fault zone occurs from 328.63 – 329.20 m and cuts the rock at 20 deg. TCA. Fault zone comprises >60% clasts (protocataclasite). This fault zone is the upper boundary to the same granite with high concentrations and large sizes. Faults at 328.98 and 329.20 contain vfg dark material 1-2 mm wide.				Phyllic	Weak-mc	Potassic	Weak-Mc	5	0.3	5	0			
RVD17-03	N. Mostaghimi					300.65	305.05	Increase in stockwork bt veinlets to 5-10 per 10 cm that cut the rock at 15, 20 and 70 deg. Bt alteration is weak to moderate. TCA. Chl-ep vein frequency increases as well to 2-3 per 10 cm and cross cut the rock at 60-70 deg. TCA. Clay alteration affects the plag within 2-3 mm from cb and chl-sulph veinlets.	Potassic	Weak-mc	Propylitic	Weak-Moderate							
RVD17-03	N. Mostaghimi					310.65	313.81	Moderate-strong bt alteration. The granite contains an increase in frequency and size of mafic enclaves and plag megacrysts.			Potassic	Moderate-strong							
RVD17-03	N. Mostaghimi					311.23	311.6	Moderate bright green ser is pervasive and alters plag in the granite.			Phyllic	Moderate							

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RVD17-03	N. Mostaghimi					312	312.98	1.5 cm wide qtz vein with a softy undulating margin is associated with cpy (2-4% of the vein). Semi-massive to massive po-py mineralization is associated with this vein, but outside of the vein. There are several smaller similar qtz-veins that branch off of this vein with cpy-po-py mineralzation as well. The vein cuts chl-rich rock that may have altered after mafics (disseminated?), and therefore suggesting a mafic autolith prior to alteration. 15-20% po within this interval; 5-7% py.					6	1.2	20				
RVD17-03	N. Mostaghimi					314.44	319.51	Trace alteration of granite. 1/1 metre diffuse veins with qtz(?) and possibly kspar alteration halos occur at 40 deg. TCA (314.79 m) and 90 deg. TCA (316.87 m).	Potassic	Trace-We	Propylitic	Trace							
RVD17-03	N. Mostaghimi					324.68	325.88	Ser-clay alteration is pervasive and moderate to strong.	Carbonate	Moderate	Phyllic	Moderate-strong							
RVD17-03	N. Mostaghimi					325.88	327.29	Moderate pervasive sillicification and green ser(?). Sheeted veinlets defined by chl(?) stringers(?) at an orientation of 20 deg. TCA.	Phyllic	Moderate	Silica	Moderate							
RVD17-03	N. Mostaghimi					327.29	331.05	Strong ser-clay alteration. Pale yellow to white clay and bright green ser.			Phyllic	Strong							
RVD17-03	N. Mostaghimi					331.62	333.03	Gradational boundary between granite with high frequency (30-40% plag megacrysts and 15-20% autoliths) of very large mafic enclaves and plag megacrysts (up to 2 cm wide plag megacrysts and up to15 cm wide mafic autoliths) that are altered to chl-ep from the typical granite with <10% of both enclaves and megacrysts. Gradational boundary also contains a high concentration of mafic minerals.			Propylitic	Weak-Moderate							
RVD17-03	N. Mostaghimi					333.66	334.12	Strong ser-clay alteration associated with fracture-filled vein at 35 deg. TCA.			Phyllic	Strong							

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RVD17-03	N. Mostaghimi					335.6	337.53	Moderate-strong ser and clay alteration.			Phyllic	Moderate-strong							
RVD17-03	N. Mostaghimi					342.75	343.79	Moderate pervasive bt alteration.			Potassic	Moderate							
RVD17-03	N. Mostaghimi					344.24	344.76	Strong bt alteration.			Potassic	Strong							
RVD17-03	N. Mostaghimi					349.19	352.02	Moderate ser and weak bt alteration.	Phyllic	Moderat	Potassic	Weak							
RVD17-03	N. Mostaghimi					352.02	362.76	Strong bt alteration and granite with high frequency (30-40% plag megacrysts and 15-20% autoliths) of very large mafic enclaves and plag megacrysts (up to 2 cm wide plag megacrysts and up to15 cm wide mafic autoliths). Thin 1 mm wide qtz-po+/-cpy+/-py veinlets cross cut mafic enclaves and produce relatively higher grade than the rest of the interval. Ep and chl alteration of plag megacrysts is common and associated with chl-ep veinlets that cross cut plag; e.g., 356.47 – 356.62 m.	Potassic	Strong	Propylitic	Weak-Moderate							
RVD17-03	N. Mostaghimi					357.17	357.74	Moderate-strong ser and clay alteration.			Phyllic	Moderate-strong							
RVD17-03	N. Mostaghimi					369.68	375.83	Silica and ser (phyllic) alteration is moderate-strong.	Phyllic	Moderat	Silica	Moderate-strong							
RVD17-03	N. Mostaghimi					371.64	374.1	Strong qtz stockwork veinlets cut the rock at 10 and 35-40 deg. TCA.			Silica	Strong							
RVD17-03	N. Mostaghimi	377.2	401.6	GRD	Weak-trace bt-ser alteration of granodiorite Generally unaltered rock with sporadic veins and zones of weak alteration of various assemblages. Aplite dykes at 390.20 - 390.22 m at 40 deg TCA; 392.10 – 329.14 m at 60 deg. TCA; 392.59 – 392.62 m at 50 deg. TCA; 396.77 – 396.85 m cuts the rock at 50 deg. TCA cross cut by qtz-cpy-po veinlet at 15 deg. TCA. Alteration: Trace to weak propylitic alteration defined by chl-sulph, chl-ep veinlets. Signs of other alteration assemblages occur but solely as sporadic veinlets and veins and discrete small intervals. Veins: Chl-ep alteration veins increase in frequency (1-3 per 10 cm) at 391.70 – 393.91 and they cut the rock at 20 deg. TCA. Qtz-veinlet stockwork from 393.43 – 393.54 m associated with an aplite dyke and cut the rock at 20 and 0 deg. TCA. Mineralization: Py: 1-3%; Po: 2-3%; Cpy: 0.2%.				Potassic	Trace-We	Propylitic	Trace-we	2	2.5	2				
RVD17-03	N. Mostaghimi					382.04	383.85	Weak sericite pervasive alteration. Increase in clay alteration and and cb (weak). Cb veins cut the rock at 30 and 45 deg. TCA.	Carbonat	Weak	Phyllic	Weak							
RVD17-03	N. Mostaghimi					400.36	400.75	Weak pervasive green ser alteration.			Phyllic	Weak							

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RVD17-03	N. Mostaghimi	401.6	505.7	GRD	Phyllic alteration of granodiorite. Fractured and faulted zone with carbonate veins: Granodiorite rock with small intervals of increase in frequency and size of plag megacrysts and mafic autoliths. Moderate-strong phyllic alteration overprint overprints a weak to moderate potassic alteration and are typically associated with faults and fractured zones that as a result contain an increase in carbonate veins. Sporadic zones of weak-trace phyllic alteration expose stronger potassic and propylitic alteration. Aplite dyke cross cuts the rock at 404.62 – 404.65 m at 50 deg. TCA; 429.14 – 429.20 m at 80 deg. TCA strongly altered to cb and ser. Aplite dyke at: 457.88 – 457.99 m and cuts the rock at 45 deg. TCA; 459.41 – 459.44 m cuts the rock at 50 deg. TCA; 461.16 – 461.22 m at 80 deg. TCA; 461.42 – 461.44 m at 50 deg and is dragged by the fault to display a shear sense direction; 466.72 – 466.78 m cuts the rock at 50 deg. TCA; 467.64 – 468.20 m at 70 deg. TCA; 471.65 – 471.74 m cuts the rock at 60 deg. TCA; 477.97 – 478.03 m cuts the rock at 65 deg. TCA.; 478.76 – 478.80 m cuts at 70 deg. TCA; 489.22 – 489.28 m cuts the rock at 70 deg. TCA; 494.99 – 495.07 m cuts the rock at 60 deg. TCA; 495.41 – 495.48 m cuts the rock at 65 deg. TCA. Alteration: Potassic alteration comprises bt alteration (overprint of chl propylitic alteration?) zones with stringers and veinlets that are stockwork. Also qtz-veins with bt-halos are common, these veins contain a light colour alteration halo associated with the plag within the granite that may be kspar; e.g., 411.56 m. This potassic alteration overprints zones of propylitic alteration that contain chl-sulph veins and chl-ep+/-sulph veins. Phyllic alteration is typically associated with pervasive pale white and green and bright green ser alteration of feldspars. Veins: 1. Stockwork qtz- and bt-veinlets are common. Bt stockwork veinlets at 15 and 60 and 80 deg. TCA: e.g., 408.46 – 409.96 m. Qtz-stockwork veinlets at 409.2 – 413.29 m. Sulph-qtz veinlet stockwork cut the rock at 65, 45, 15 deg. TCA from 440.78 – 442.18 m. 2. Dark grey matieral is soft, but consolidated and does not have a strong streak. 3. Wispy qtz+/-chl veinlets with 5-10% cpy. E.g., 15 deg. TCA at 451.00 m, 466.26 m at 15 deg. TCA; 468.28 m at 10 deg. TCA; 468.52 m at 20 deg. TCA; 481.36 m at 20 deg. TCA; 494.18 m at 0 deg. TCA; 477.35 m cuts at 60 deg. TCA and contains cb infill and mo mineralization; 505.22 m at 10 deg. TCA. 4. Wider qtz-veins are undulating and contain cpy and perhaps associated bt-kspar(?) alt, occur at: 482.44 m oriented at 10 deg. TCA. 5. Large qtz-vein at 485.69 – 485.85 m cuts the rock at 20 deg. TCA and is parallel to discrete dark grey material. Qtz-bt halo-veins at 497.39 m and 497.45 m at 30 deg. TCA; 498.68 m at 60 and 30 deg. TCA. 6. Mo mineralization in veinlets at 504.65 m with cb and py (multiple generations of open-filling), cuts the rock at 45 deg. TCA. Mo +/-qtz in veinlet at 505.22 m that cuts the rock at 55 deg. TCA with a bt alteration halo+/-kspar? Cross cut by a thin wispy veinlet of chl-cpy-po at 10 deg. TCA. 7. Chl-ep veins cut the rock at 0 deg. TCA from 426.70 – 426.60 m. At 30 deg. TCA at 426.86 m. Cb veinlets cut the rock at 90-80 deg. TCA; e.g., 451.16 m; 50 deg. TCA at 466.00 m; 60 deg. TCA at 466.12 m; 472.15 m at 50 deg. TCA; 472.23 m at 50 deg. TCA; sheeted cb veinlets from 482.57 – 484.09 m at 30 deg. TCA (1-2/10 cm).				Carbonate	Strong	Phyllic	Moderate	6	0.4	5	0		
RVD17-03	N. Mostaghimi					401.53	405.83	Stockwork veinlets from 401.55 – 405.85 m cut the rock at 5, 25, 50-60 deg. TCA. Cb veinlet infill is common and cross cut and offset plag megacrysts. Weak-moderate cb.	Carbonate	Weak-mc	Silica	Strong-moderate							
RVD17-03	N. Mostaghimi					405.83	407.83	3-5 cm fragments to rubble. Cb-clay along fractures.											
RVD17-03	N. Mostaghimi					410.79	411.2	Weak-trace phyllic alteration. Strong bt-chl alteration.	Phyllic	Weak-tra	Potassic	Strong							
RVD17-03	N. Mostaghimi					414.25	415.98	Fragmented rock (<6 cm).											
RVD17-03	N. Mostaghimi					415.57	415.98	Strong cb vein interval at 10 and 50 deg. TCA.			Carbonate	Strong							
RVD17-03	N. Mostaghimi					417.08	417.4	Weak-trace phyllic exposes pervasive dark rock (bt alteration).			Potassic	Weak-trace							
RVD17-03	N. Mostaghimi					417.79	421.79	Cpy: 0.4 – 0.75%, po: 5-7%						0.6	6				
RVD17-03	N. Mostaghimi					419.64	420.41	Strong qtz-veinlet stockwork. Qtz-veinlets are <1 mm wide and contain ~15-20% sulph.			Silica	Strong							

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RVD17-03	N. Mostaghimi					420.41	427.1	Trace-weak phyllic alteration exposes a weak-moderate potassic alteration of granite. Zone contains 1-2 chl-ep veins per 10 cm. Pervasive bt after mafics. Chl alteration and chl-stringers +/- sulph are common and sometimes altered to bt. Cb-veins occur at 30-45 deg. TCA.	Phyllic	Trace-We	Potassic	Weak-Moderate							
RVD17-03	N. Mostaghimi					422	422.3	Strong pervasive cb alteration in association to a fracture cb-infill. Cb is also associated to relic feldspars.			Carbonate	Strong							
RVD17-03	N. Mostaghimi					425.45	425.79	Strong pervasive cb alteration in association to a fracture cb-infill. Cb is also associated to relic feldspars.			Carbonate	Strong							
RVD17-03	N. Mostaghimi					427.1	430.15	Strong pervasive cb alteration in association to a fracture cb-infill. Cb is also associated to relic feldspars. Strong fracturing and chl-veinlets.			Carbonate	Strong							
RVD17-03	N. Mostaghimi					430.15	435.15	High density of faults and fracture infill typically associated with ser-clay-cb (strong) alteration. Faults and fractures contain vfg dark grey material (qtz+/-py/ pseudotachylite?).	Carbonate	Strong	Phyllic	Moderate-strong							
RVD17-03	N. Mostaghimi					443.28	443.56	Cb-veinlets cross cut the dark grey material. Main fault orientation is 70 deg. TCA and and minor faluts defined by dark grey material are oriented at 30 deg. TCA.											
RVD17-03	N. Mostaghimi					447.92	447.96	Py-dark grey material-qtz-cb.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-03	N. Mostaghimi					451.35	456.55	Large fault zone with cataclasite fabric with some zones with ultracataclasite. Fault contact at 451.35 m cuts the rock at 30 deg. TCA; lower contact cuts the rock at 30 deg. TCA. Qtz veins occur in the fault fabric. Fault fabric is comprised of zones of granodiorite fragments that have been healed, and zones or cataclasite – ultracataclasite defined by rounded qtz clasts that essentially look like quartz porphyroclasts with tails within a vfg dark grey matrix. A fault fabric is prevalent and varies from a 15 deg. TCA to a 30 deg. TCA. A zone of strongly gouged material from 455.31 – 456.55 m occurs. Aplite dyke at 452.25 – 452.73 m is fractured with the dark grey material in the matrix between fragments. Shear sense can be determined at: 451.35 m where the fault fabric is dragged by the granodiorite wall rock.											
RVD17-03	N. Mostaghimi					459.64	461.53	Fault zone with cataclasite fabric and gouge material. Upper contact cuts the rock at 10 deg. TCA; and lower contact.											
RVD17-03	N. Mostaghimi					463.2	464.65	Fault zone with gouge and cataclasite fabric. Upper contact cuts the rock at 20 deg. TCA; lower contact at 10 deg. TCA.											
RVD17-03	N. Mostaghimi					477.35	505.36	Py: 5-7%; Po: 2-4%; Cpy: 0.5-0.7%; Mo: 0.005%					6	0.6	3	0			
RVD17-03	N. Mostaghimi					479.04	482	Trace phyllic overprint exposes weak bt (potassic) alteration.	Phyllic	Trace	Potassic	Weak							
RVD17-03	N. Mostaghimi					486.72	486.9	Fault comprises gouge material in the upper contact (2 mm). Dark grey material (veins??) are parallel to the fault contact.											
RVD17-03	N. Mostaghimi					495.07	496.96	Weak phyllic alteration overprint exposes weak bt alteration.	Phyllic	Weak	Potassic	Weak							
RVD17-03	N. Mostaghimi					497.65	498.68	Weak phyllic alteration overprint exposes weak bt alteration.	Phyllic	Weak	Potassic	Weak							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-03	N. Mostaghimi					501.69	502.32	Strongly fragmented rock (<10 cm) with chl along fractured surfaces.			Propylitic	Weak-Moderate							
RVD17-03	N. Mostaghimi					502.92	505.66	Trace-weak phyllic overprint exposes weak-moderate propylitic alteration defined by sheeted chl-veinlets at 60 deg. TCA from 503.65 – 504.65 m. Weak to trace potassic alteration is apparent and defined by pervasive bt alteration.	Potassic	Weak-tra	Propylitic	Weak-Moderate							
RVD17-04	L. Bickerton	0	2.57	NRC	no core recovered (casing) - mostly overburden														
RVD17-04	L. Bickerton	2.57	9.84	TUF	Lithology: Diatreme Breccia; light grey to buff-tan crystal(-lithic) tuff breccia. Unit is homogeneously poorly sorted and is predominantly made up of a fine grained crystal-rich matrix (~60-65%). The matrix is composed dominantly of rounded to sub-rounded feldspar (~70% of xtals) and quartz (~20% of xtals) with minor disseminated mafics (bio?) and sulfides (some of the former replaced by the latter). The fragments in this interval (lithics) make up 40-45% of the rock and have variable size (ca. 5mm to 6-7cm) and composition (ranging from fragments of qtz+sulfide [vein fragments?, ~25% of lithics, py>>cpy>mo], qtz-fsp porphyritic to aphanitic hypabyssal fragments [~35% of lithics], rounded and somewhat large (3-7cm) leucocratic granitoid fragments [~30%], and metamorphic/hornfelsed fragments [~10% of lithics]. Alteration: apart from oxidation due to near-surface weathering, the interval appears weakly phyllically altered, with clays +/-ser replacing most feldspar crystals and pyr replacing some mafic crystals (also occurs along fractures). Mineralization: most sulfides have been weathered away, but pyrite was most likely the most common sulfide due to what is observed below interval and the dominance of limonite/hematite ove a malachite/CuOx presence				Iron	m	Phyllic 1	w	2	0					
RVD17-04	L. Bickerton	9.84	11.26	TUF	Lithology: Diatreme breccia as described above, but heavily faulted/gouged (could be enhanced by surface weathering?). Alteration: phyllic (w), difficult to determine in gouge. Mineralization: py occurs thgouhtout this zone, either disseminated or along fracture surfaces that have since been further broken up by fault gouge.				Iron	m	Phyllic 1	w	0.5						
RVD17-04	L. Bickerton	11.26	26.25	TUF	Lithology: Diatreme Breccia; light grey to buff-tan crystal(-lithic) tuff breccia. Unit is homogeneously poorly sorted,. Although this interval appears to be finer grained and more matrix (crystal)-rich than the above unit. The diatreme in this interval is predominantly made up of a fine-grained crystal-rich matrix (~70-75%). The matrix is composed dominantly of rounded to sub-rounded feldspar (~70% of xtals) and quartz (~20% of xtals) with minor disseminated mafics (bio?) and sulfides (some of the former replaced by the latter). The fragments in this interval (lithics) make up 25-30% of the rock and have variable size (ca. 1-2mm to 4-5cm) and composition (ranging from fragments of qtz+sulfide [vein fragments?, ~30% of lithics, py>>cpy>mo], qtz-fsp porphyritic to aphanitic hypabyssal fragments [~40% of lithics], to less common rounded leucocratic granitoid fragments [~15%], and metamorphic/hornfelsed fragments [~10% of lithics]. Alteration: weak phyllic overprint, feldspars mostly replaced by either clay or sericite(?), particularily in vein haloes. Sulfides precipitate around rims of some granitoid clasts, however, some py clots appear to be fragments (having precipitated prior to brecciation). Mineralization: sulfides occur in three styles; 1) as clots throughout the diatreme interval that are most likely fragments incorporated into the breccia (pyr>>cpy), 2) disseminated and replacing xtals and fragments in the breccia as replacement/post-breccia mineralization (pyr>>cpy>mo), and 3) along veins and fracture sufraces and replacing fragments within the haloes to veins (pyr only). Veins in this interval occur as qtz-ser-pyr planar stringer veins that cut @25-35tca and are found ~3times/meter (3/m).				Phyllic 1	w			4.9	0.1		0			
RVD17-04	L. Bickerton	26.25	37.68	TUF	Lithology: Variably fault-brecciated diatreme breccia (crystal-lithic tuff brecca). Interval is similar to section above, with a slightly more homogeneous lithic size distribution [2-5mm], apart from local mega-lithics [2.5-7cm] of qfp porphyry (e.g., 35.5m) and mineralized qtz (e.g., 36.48m), and a crowded nature to the fragments. Faulthing and brecciation of the diatreme occurs throughout the interval with extenisive oxidation and weathering to FeOx, clays along fractures and among the weakened matrix. Locally (e.g., 26.48m), brecciation of the diatreme appears to be cemented by chl+/- ser and may be associated with ser-py +/-qtz stringers. Alteration: Interval is more prone to weathering and subsequent oxidation due to the faulting, but significant ser-py throughout the rock indicate a moderrate phyllic-type assemblage was pervasive (perhaps prior to faulting?) Mineralization: most sulfides are represented in clasts, among the matrix, or in veins. Dominantly this mineralization is pyrite, with much lesser cpy thought to be intergrown with pyr within some vein lithics/fragments. Thin stringers of py-ser+/-qtz also cut the core (~0.5/m, 30tca), perhaps associated with faulting.	36	36.1	mineralized qtz fragment	Iron	m	Phyllic 1	w	4	0					
RVD17-04	L. Bickerton					48	48.1												
RVD17-04	L. Bickerton	37.68	45.1	TUF	Lithology: diatreme breccia (lithic-rich crystal tuff breccia) that is moderated faulted with pervasive gouge/clay alteration and rounding/grinding of lithic fragments. Clast inventory remains similar to mentioned above, with qtz-fsp porphyry, granitoid, sulfide/qtz-sulfides, and rounded fragments of coarse fsp +/- qtz.This interval appears more poorly sorted and fragment sizes irregularily range from mm-scale to 5-8 cm. Gouge increases in areas with fewer large fragments (the former a result of the latter?). Alteration: The same moderate phyllic assemblage overprints these rocks, with any ser having been turned to clay (through fault movement?) and pyrite throughout interval. Mineralization: Disseminated and clotty (entire lithic fragments?) euhedral pyrite precipitating amon the matrix and within fragments. Locally within the gouge there is vein-like streaks of dark grey crossing the faulted material (could be fine grained pyrite?)- Could indicate a syn- to post-kinematic mineralization for py. Perhaps some minor cpy mineralization associated with pyrite from within some fragments.				Phyllic 1	m			3	0					

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RVD17-04	L. Bickerton	45.1	52.54	TUF	Lithology: crystal-tuff breccia (with lithics), part of the diatreme and same unit as described above. This interval is more competent with less fault breccia and gouge and therefore less clay overall. Lithic clasts are slightly more rounded and dispersed in this interval (fsp xtal rich) but the inventory and sorting is very similar to those observed above. Alteration: weak to moderate phyllic overprint adds sericite to diatreme fragments and crystals in the matrix of the breccia. Disseminated py and py rimming fragments may also be a result of phyllic alteration. Mineralization: Sulfides occur disseminated in the matrix as well as, to a lesser extent, pre-mineralized(?) fragments in the diatreme. These are dominantly pyrite. Locally there are small intervals where pyrite can reach 15-20% of the rock (49.72-49.85m).				Phyllic 1	m			5	0					
RVD17-04	L. Bickerton	52.54	57.25	TUF	Lithology: Same lithology as the above interval with sinificant fault brecciation to gouge. The matrix to the diatreme breccia is mostly replaced by clays in these zones, with abundant rounded to sub-rounded quartz crystals and lithic fragments (of similar compositional range to that described above). Alteration: weak to moderate phyllic overprint altering the fsp and fsp-rich lithic fragments to sericite (which is dominantly changed to clay among the fault gouge) and finely disseminated pyrite. Mineralization: Finely disseminated pyrite is also accompanied by f.g. sulfide lithic fragments and mineralized qtz fragments as well as veins (?) that appear as dark grey streaks through the gouge (fine grained pyrite and quartz +/-graphite??) at 40tca, 1cm, 4/m.				Phyllic 1	w			4						
RVD17-04	L. Bickerton	57.25	76.81	TUF	Lithology: lithic-rich crystal tuff breccia (diatreme), a fairly competent interval without much gouge/fault brecciation. Lithic fragments show somewhat moderate sorting with intervals of crowded coarse fragments (e.g., 59.42-61.06m, 45% lithics 3-45mm in size) that transition into crystal rich intervals with finer sparsely crowded lithics (61.06-62m, ~20% lithics 1-10mm) and then sequence repeats irregularily. Inventory is very similar to that stated above (ranging from fragments of qtz+sulfide [vein fragments?, ~30% of lithics, py>>cpy>mo], qtz-fsp porphyritic to aphanitic hypabyssal fragments [~40% of lithics], to less common rounded leucocratic granitoid fragments [~15%], and metamorphic/hornfelsed fragments [~10% of lithics]). Alteration: weak phyllic alteration where sericite is commonly replacing fsps and portions of lithic fragments and pyr is disseminated in the breccia matrix as well as rimming/replacing lithic fragments. Mineralization: pyrite is dominant sulfide and occurs as patchy concentrations (fragments or replacing lithic fragments) as well as disseminations throughout the diatreme interval. Dark grey disseminated sulfite is alos prevalent through this interval, could be f.g. moly?	59.42	61.06	crowded lithic fragments	Phyllic 1	w			4	0		0			
RVD17-04	L. Bickerton					61.06	62	sparsely populated lithic fragments											
RVD17-04	L. Bickerton	76.81	78.43	TUF	Lithology: lithic-rich crystal tuff breccia (diatreme), as described above, although this interval was separated due to presence of a fault gouge, introducing more clay to breccia. Lithic fragments in this interval; also begin to coarsen and become more angular. Compositionally, most of the fragment inventory remains static, however a large unidentified fragment is present at ~77.61m – buff-green qtz-fsp rich fragment that appears to be foliation or flow banded (could be a lapilli bomb of cannibalized diatreme breccia? Or a metamorphosed volcanic hostrock?). Alteration: Apart from clay dominant fault zone, interval is weakly sericitized +/- chloritized (phyllic). Mineralization: Pyrite remains the dominant sulfide and occurs as disseminations as well as clots/lithic fragments and as replacements (tend to favor granitic clasts?).				Phyllic 1	w			1						
RVD17-04	L. Bickerton	78.43	82.46	TUF	Lithology: lithic-rich crystal tuff breccia (diatreme), competent interval with lithology very similar to that described above, poorly sorted with lithic fragments ranging in size and angularity from 1mm-8cm and rounded to subangular, respectively. Compositionally similar to last inventory outlined. Alteration: Interval appears weakly sericitized and pyrite mineralized, likely from a phyllic overprint? Rims of granitic lithic fragments appear more sericitized than the core, indicative of timing of phyllic overprint? Mineralization: minor pyrite mineralization disseminated through the interval with concentrations in sulfide fragments as well as replacements in granitoid lithic fragments. Other dark blue-grey very fine in size is disseminated through interval – could be moly?				Phyllic 1	w			0.8	0		0			
RVD17-04	L. Bickerton	82.46	85.48	TUF	Lithology: Same lithology as above, lithic-rich crystal tuff breccia, but this interval is fault brecciated as well. Matrix to fault breccia is a clay-rich gouge. Interval appears clast-supported and clasts maintain diatreme breccia textures and alteration/mineralization. Alteration: Weak sericite/pyrite overprint (phyllic) apart from fault gouge clay content. Mineralization: Pyrite is disseminated among diatreme clasts as well as fault gouge breccia matrix. Within clasts there is sulfide lithic fragments. Veins (?) appear with fault gouge as dark grey streaks through the gouge (fine grained pyrite and quartz +/-graphite??) at 30tca, 1cm, 1/m.				Phyllic 1	w			2	0		0			
RVD17-04	L. Bickerton	85.48	87.51	TUF	Lithology: Lithology remains consistent, but much less fault-brecciated than the unit above (some minor gouge breccia from 85.48-86m). Crystal dominate this tuff breccia, with lithic fragments making up approx. 20% and ranging in size from 1-10mm with a few exceptions. One such exception is 8cm wide and is found at 87.4m; the fragment resembles the unidentified fragment above (~77.6m) as a qtz-fsp rich flow-banded(?) lithic clast (could be a lapilli bomb? Or fragment of aplitic dyke) Alteration: weak sericite overprint (phyllic). Mineralization: similar to interval above fault-brecciated section, pyrite remains the dominant sulfide and occurs as disseminations as well as clots/lithic fragments. There may also be very fine molybdenite disseminated in this interval.	85.48	86	gouge breccia	Phyllic 1	w			2	0		0			
RVD17-04	L. Bickerton					87.4	88.2	tuff fragment											
RVD17-04	L. Bickerton	87.51	92.78	TUF	Lithology: Crystal-rich lithic tuff breccia (diatreme breccia). Apparent undulose contact @ 87.51m between crystal-dominant tuff breccia (above) and lithic fragment-dominant tuff breccia (below). Contact trends approx 90 tca and is very subtle. Lithic tuff breccia has same clast inventory in terms of percentages, but is much coarser (0.3-15cm wide fragments) and crowded (~70% of interval) than above breccia. Alteration: Weakly altered, individual lithic fragments appear much more altered to green sericite than others – could be a sign of timing for lithic tuff breccia (post phyllic alteration of other bx?) Mineralization: pyrite remains dominant sulfide mineral and occurs in fragments, either 100%sulfide fragments or as truncated sulfide veins within fragments. Disseminated and fracture-coated pyrite occurs as well.	87.51	87.51	contact between crystal dominant tuff (above) and lithic dominant tuff breccia below	Phyllic 1	w			3	0		0			

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RVD17-04	L. Bickerton	92.78	109.1	TUF	Lithology: Lithology remains consistent, lithic-rich crystal tuff brecca (diatreme). Minor fault-related breccia and gouge in this interval. Of the lithic fragments, outliers appear to be getting coarser and more common in this interval overall (reaching 10-15cm wide). There also appears to be an increase in the proportion of qtz-feldspar porphyritic fragments, some of which are more altered than others and vary in mineralization from pyr-bearing to cpy-mo bearing. Alteration: Fragments appear to either be pre-altered prior to diatreme breccia, or are variable in acceptance of alteration. Overall, a weak phyllic overprint appears present, with most feldsaprs having altered to sericite (and some entire clasts as well as crystals having become green sericite). Mineralization: Pyrite is disseminated throughout the interval, as well as very fine-grained mo(?), and these same assemblages form clots (replacing fragments). Some of the QFP fragments also have minor cpy mineralization associated with pyrite.				Phyllic 1	w			5	0		0			
RVD17-04	L. Bickerton	109.1	110.1	TUF	Lithology: Same lithology as discussed above with localized brecciation (flt), but separated due to increased amount of alteration and unidentified mineralization. Alteration: Synchronous to just post-tuff brecciation, alteration of the matrix to the breccia has occurred changing most xtals and groundmass to a mix of quartz and a reddish brown mica (? could be hematite staining?) that isn't as soft or as readily disaggregated as sericite. This interval has mineralization associated with this alteration. Mineralization: weakly disseminated through the interval and locally fragment-replaceing biotite occurs in this interval, and abundant deep blue-grey sulfide is associated with the reddish stained mica alteration discussed above; this could be specuular hematite? Dino light shows a bladed/cylindrical crystal form – wolframite? Tourmaline? Very fine nature of these make classification difficult. Weak response to UV in surrounding material but some fg bladed crystals glowed blue.				Phyllic 1	w	iron	w	4	0		0			
RVD17-04	L. Bickerton	110.1	120.9	TUF	Lithology: Lithic-rich crystal tuff breccia (diatreme breccia) with an increased amount of "lapilli" (typically in the form of amoeboid shaped blocks, 4-6cm, of quenched to porphyritic felsic volcanic fragments). The new addition to the fragment inventory is ~10% of the fragments which are in similar porportion to the crystal rich groundmass as stated earlier in the hole (lithics+lapilli 45:crystals 55). Alteration: weak phyllic overprint, some fragments are rimmed with sericite and pyrite froms globular clots throughout interval. Mineralization: Py dominant sulfide, typically associated with phyllic overprint. Some minor cpy associated with QFP fragments.				Phyllic 1	w			4	0		0			
RVD17-04	L. Bickerton	120.9	128	TUF	Lithology: crystal(+/-lapilli)-rich lithic tuff breccia (Diatreme). Interval is somewhat crowded with ~40-55% fragments that are poorly sorted and rounded to sub-rounded. Inventory of fragments changes slighlty with decreased sulfide content and increased content of qtz-fsp porphyry fragments + "lapilli" (or vfg to fg buff to white volcanic fragments sometimes containing aligned to glomerophyric qtz). Alteration: weak sericite alteration +/- some pyr and silicificaation among the xtal rich matrix in the diatreme breccia. Mineralization: some pyrite mineralized fragments, mostly associated with the qfp fragments. Disseminated among the crystal rich matrix as well.				Phyllic 1	w			0.8	0					
RVD17-04	L. Bickerton	128	133.3	TUF	Lithology: Lithic-rich crystal tuff breccia (diatreme), similar to above the previous interval. This could be a gradation from the previous where fragments are more dispersed and the crystal-rich matrix is more pervasive in the unit. Grading within the diatreme breccia appears cryptic and not always repeating (pockets of coarser material and concentrations of fragments can be broken up in place from a larger piece?) Alteration: Weak sericite overprint throughout the interval replacing most fsp xtals both in the breccia matrix and within QFP fragments. Mineralization: Pyrite with minor chalcopyrite appears clotty in nature replacing the- or being emplaced as – fragments across the interval. Locally there is also subtle veins containing pyrite-qtz+/-ser (40tca, stringer, 0.5/m). There is also disseminated very fine aggregates of dark grey mineral, as discussed above in the 109-110 interval – could be tourmaline? Or a sulfide?				Phyllic 1	w			1	0		0			
RVD17-04	L. Bickerton	133.3	165.4	TUF	Lithology: Lithic-rich crystal tuff breccia (diatreme). Very similar to above interval throughout with an increased amount fragment content as well as lapilli (irregular shaped quenched felsic material). Fragment proportions stay relatively consistent but lithics are less crowded with the exception of some sub-intervals (e.g., 134.4-137.72m, 142.97-143) where fragments were the majority of the rock. Alteration: Weak phyllic alteration through this rock, with some sublt veins being visible, but sericite is pervasivley replacing feldspar xtals. QFP fragments can look pocky, likely fsp that has been altered to clay and washed out? Or are these vesicles in lapilli? Mineralization: Pyrite with minor chalcopyrite and molybdenite appears clotty as well as disseminated. subtle veins containing pyrite-qtz+/-ser (40tca, stringer, 0.5/m). Finely disseminated dark grey mineral, as discussed above, is also pervasive through the interval, locally appears to be mixed with mo and cpy(?), could be a candidate for thin section analysis if assays indicate good grade.	134.4	137.72	crowded lithic fragments	Phyllic 1	w			1.5	0		0			
RVD17-04	L. Bickerton					142.97	143	crowded lithic fragments											
RVD17-04	L. Bickerton	165.4	182.4	TUF	Lithology: Lithic-rich crystal-tuff breccia (diatreme). Unit is highly variable in fragment size and sorting (from 5mm to ~28cm irregularily throughout the interval). QFP fragments become more common and larger (~40% of fragments, 1-28cm) with variable amount of alteration and mineralization within each fragment. Alteration: moderate phyllic overprint, altering most feldspar in the rock to ser-clay and distributing pyrite and lesser silica throughout interval. Mineralization: Pyr dominant sulfide with minor cpy associated with some pyr clots in QFP fragments, as well as in truncated veins in granitoid fragments; pyr also associated with subtle qsp veins oriented 10tca, ~1cm, 0.5/m. Amount of finely disseminated dark grey-blue mineral lessens in this interval but is still present (+/- mo with these?).				Phyllic 1	m			2	0		0			
RVD17-04	L. Bickerton	182.4	187.5	TUF	Lithology: Crystal-rich lithic tuff breccia (Diatreme). Interval is a gradation from the above unit where coarse QFP fragments have become the dominant lithology being brecciated. Fragments make up ~ 80% of the interval, the remainder of which is fsp-rich f.g. crystal matrix where not entirely altered to sericite. The fragments are mostly QFP (~85% of fragments, 2-25cm), but also include bt-qtz-diorite and altered leucocratic granitoid (~10%, 2-10cm), hornfelsed/foliated metamorphic host rock (~5%, ~10cm), and accessory fragments of sulfide/qtz-sulfide (~0.5-2cm). Alteration: moderate phyllic overprint, changing most feldspars to sericite, including parts of the matrix where between fragments has completely been replaced (altered lapilli?). Mineralization: Silimar to intervals above, with more mineralization related to disseminations within QFP (+/- replacements in these fragments?)				Phyllic 1	m			3	0		0			
RVD17-04	L. Bickerton	187.5	195.2	TUF	Lithology: Lithic-bearing crystal tuff breccia (diatreme). Fragments make up ~20-25% of interval, the rest is a matrix of fg fsp and qtz crystals with lapilli. Fragments are 0.1 – 6cm, rounded to sub-angular, and sparsely populate the interval. Compositionally, fragments are made up of variably altered qtz-felspar intermediate porphyry (~80% of fragments, 0.5-6cm), altered granitoid/diorite (~10%, 2-10mm), and mineralized to non-mineralized fragments of qtz and sulfide Alteration: A weak to moderate phyllic overprint in this interval differs slightly from those discussed above due to an increases SiO2 presence (occurs in matrix and altering some of the QFP fragments). Ser replaces many of the feldspar in this interval and py is throughout. Mineralization: Sulfides occur again as veins (Qtz-py+/-ser, 2/m, planar, 2-4mm), disseminations, and clotty replacements/entire fragments. Cpy is more visible in this interval as being associated with pyrite in places.				Phyllic 1	m			2	0					

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RVD17-04	L. Bickerton	195.2	207.2	TUF	Lithology: Lapilli-bearing lithic tuff breccia (Diatreme). Fragments become much more common and coarser (~70% of rock and ranging in size from 0.5-10cm), and the fragment inventory is similar to the intervals described above the previous section (qfp>granitoid>lapilli>qtz&sulfide>metamorphic). Locally there is intervals of well mineralized qtz-py+/-cpy brecciating qtz-feldspar rich granitoid fragments (e.g., 196.27-196.57m, 200.75-201.55m, 204.18-204.78m. There is also a well mineralized qtz-bx vein at 202.49-202.79m. Alteration: Moderate silica/hematite overprinted by phyllic alteration (?silica may be part of the phyllic?). Interval has a crystal-rich matrix that is predominantly stained reddish/light maroon (hematite?). Fragments are rimmed by a buff sericite alteration associated with qsp stringers and haloes that cross-cut the red staining. Mineralization: sulfides associated with veining and breccia fill are abundant through this interval, mostly pyrite with lesser cpy and marcasite. Disseminated py associated with phyllic alteration is also present.	196.27	196.57	well mineralized qtz-py+/-cpy ribbon/brecciated qtz veins	Phyllic 1	w	iron	m	7	0.1		0			
RVD17-04	L. Bickerton					200.75	201.55	well mineralized qtz-py+/-cpy ribbon/brecciated qtz veins											
RVD17-04	L. Bickerton					204.18	204.78	well mineralized qtz-py+/-cpy ribbon/brecciated qtz veins											
RVD17-04	L. Bickerton					202.49	202.79	well mineralized qtz-py+/-cpy ribbon/brecciated qtz veins											
RVD17-04	L. Bickerton	207.2	228.3	TUF	Lithology: Lithic-rich crystal tuff breccia (diattreme) with local enrichments in lapilli/vfg felsic material (e.g., 211.84 – 212.24m, 217.43 – 217.68m). crystals and matrix of breccia has patchy reddish staining (hematite?) similar, but less pervasive, to the above interval. Fragments are smaller (0.2-5cm +/-15cm), poorly sorted, and fragment inventory is very similar to that described in the previous interval. Granite/diorite fragments are more intensley altered than that of QFP (could be feldspar content..). Alteration: Hematite(?) flooding appears to be overprinted by qsp veins and weak ser alteration. Ser appears to rim fragments and be present in haloes of veins that crosscut red stained diatreme matrix. Where red stain is not pervasive, rock takes on buff tan colour and has increased silica content (could be related to an early silica alteration? Or phyllic? Mineralization: Total sulfides decrease in this interval but associations and proportions remain similar to above interval. Veins of ser-py+/-qtz occur 3.5/m, 1-3mm, planar to irregular, 40-05tca.	211.84	212.24	enriched in vfg felsic material (lapilli?)	Phyllic 1	w	iron	m	2	0					
RVD17-04	L. Bickerton					217.43	217.68	enriched in vfg felsic material (lapilli?)											
RVD17-04	L. Bickerton	228.3	233.1	BRX	Lithology: Lithic tuff breccia (diatreme). Interval appears more brecciated than previous units, and dominated by featureless to qtz-porphyritic felsic fragments, most of which have been completely to partially stained reddish-pink (hematite stained lapilli?). The qtz-porphyry fragments range in size from 0.1-3cm, are angular to sub-rounded, and make up ~70% of the fragments. Larger fragments (1-8cm) of qtz-fsp porphyry, qtz-diorite, and metamorphic (?) make up rest of fragment inventory. Unit appears hydrothermally brecciated relative to rest of diatreme, with cement being locally composed of specular hematite and qtz +/- mo, py, cpy (e.g. 229-229.25). Alteration: Pervasive red-pink staining (hem?) through the interval is dominant alteration +/- weak ser-qtz-py phyllic overprint. Mineralization: Sulfides associated with hem alteration and bx of unit. Sulfides (pyr>cpy>mo) are disseminated and clotty in the martix of the breccia, and in the cement of hydrothermally brecciated intervals (+hem, specular hem). Veins: py-qtz-ser, planar, 0.1-1cm, 45tca.	229	229.25	hydrothermally brecciated, with cement being locally composed of specular hematite and qtz +/- mo, py, cpy	Phyllic 1	w	iron	m	2	0.3		0.1			
RVD17-04	L. Bickerton	233.1	236.8	TUF	Lithology: Lithic-bearing crystal tuff breccia (diatreme). Fragments make up ~20-25% of interval, the rest is a matrix of fg fsp and qtz crystals (+/- lapilli?). Fragments are 0.1 – 6cm, rounded to sub-angular, and sparsely populate the interval (+outlier 10-12cm fragment of metamorphic rock). Compositionally, fragments are similar to the lithic-rich crystal-tuff breccias described above with an increase in content of sulfide fragments. Alteration: weak phyllic overprinting minor hematite staining of interval. Mineralization: sulfides predominantly occur as fragments or clots (having replaced fragments?). Minor qsp veins through this section at ~40tca, planar, 1-3mm, 3/m.				Phyllic 1	w	iron	w	1	0.1					
RVD17-04	L. Bickerton	236.8	261.7	TUF	Lithology: Thicker interval of homogeneous lithic tuff breccia (diatreme). Fragment composition is similar to interval above with more common metamorphic fragments, but they are more crowded and poorly sorted, size ranges from 0.1-12cm. Outlier clasts include large (5-10cm) metamorphic clasts and flow banded(?) qtz-fsp-bearing tuff fragments (technically lapilli?). Alteration: Patchy hematite, and grey/green sericite +/-pyr (weak phyllic), locally stronger/moderate. Mineralization: sulfides in this interval behave in a similar fashion to that above, and pyr-bearing veining is less common. Hematite (associated with red staining?)is specular in places, typically occurs with qtz+mo, rimming fragments.				Phyllic 1	w	iron	w	1	0.1		0			
RVD17-04	L. Bickerton	261.7	265.4	TUF	Lithology: Lithic-rich crystal tuff breccia (diatreme). Fragments make up ~30-40% of interval, the rest is a matrix of fg fsp and qtz crystals (+/- lapilli?). Fragments are 0.1 – 6cm, rounded to sub-angular, and are weakly to moderately crowded through the interval (+outlier 10cm lithic fragment of granite @ 264.9m). Compositionally, fragments are similar to the lithic-rich crystal-tuff breccias described above. Alteration: patchy iron/pink staining through the interval is locally overprinted by ser alteration (weak phyllic over weak iron). Mineralization: Fragments mineralized prior to brecciation make up a large portion of the sulfide content in this interval, and other fragemts appear rimmed/replaced by sulfide mineralization (pyr>cpy). Pyrite is also weakly disseminated in this intersection. Sulfides: 0.8% py, 0.03%cpy, 0.01% mo.				Phyllic 1	w	iron	w	0.8	0		0			
RVD17-04	L. Bickerton	265.4	270	TUF	Lithology: Crystal-bearing (+lapilli?) lithic tuff breccia (diatreme cross-cutting diatreme? An interval of the surrounding unit occurs between 266.2-266.7m). Unit appears more hydrothermally brecciated with abundant angular to sub-angular fragments (~80-85%) of buff-white qtz-porphyry, fine grained granite, and dark grey qtz-fsp porphyry. Contact with crystal tuff breccia is visible on bottom of interval, trending ~60 tca. Matrix to breccia is pervasively red-pink altered (hem?). Alteration: Moderate iron alteration through this interval is crosscut by weak phyllic. Mineralization: Most mineralization in this interval is replacing fragments during the brecciation. Sulfides: 0.8%py, 0.3%cpy, 0.01% mo.	266.2	266.7	interval of unit that surrounds this breccia (big fragment?)	Phyllic 1	w	iron	m	0.8	0		0			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-04	L. Bickerton	270	300.7	TUF	Lithology: Lithic-rich crystal tuff breccia (diatreme). Fragments make up ~30-40% of interval, the rest is a matrix of fg fsp and qtz crystals (+/- lapilli?). Fragments are 0.1 – 6cm (+ ~10cm outlier of altered, crowded qfp @ 280.6), rounded to sub-angular, and are weakly to moderately crowded through the interval. Compositionally, fragments are similar to the lithic-rich crystal-tuff breccias described above. Alteration: Patchy iron alteration and variable phyllic alteration, mostly moderate, with sericite rimming many fragments and pervasive in the matrix. Mineralization: Similar to interval above, most mineralization is associated with replacements or prior enrichment in fragments, and pyrite is also disseminated and veined in the interval (py-qtz+/-ser, planar, 2-5mm, 1/m). Chalcopyrite and pyrite typically seen together replacing some qtz-porphyry. Sulfides: 1% py, 0.2%cpy, 0.01% mo.				Phyllic 1	m	iron	w	1	0.2		0			
RVD17-04	L. Bickerton	300.7	310.2	DIO	Lithology: Contact with diatreme breccia (above) and medium grained, altered bt-hbl-diorite (below). Intrusive contact cuts the diorite at ~70 tca. Bt-hbl-diorite is equigranular, dark grey and slightly magnetic where less altered. Interval is extensively fractured, hydrothermally altered, and mineralized; likely a result of the diatreme breccia. Alteration: Locally, secondary biotite, e.g. in halos of veinset 1, is visible indicating a weak to mod potassic assemblage. This is overprinted by moderate phyllic alteration, locally strong, with sericite replacing most feldspars in the diorite and mafic sites being preserved or altererd either to sulfides or chlorite-clay mixtures. These assemblages are overprinted by a late carbonate veining that disseminated some CO3 and re-exposes previous vein-sets. Mineralization: veining becomes much more prevalent in the diorite and outweighs mafic replacement and dissemination of sulfides. Veins: 1. qtz-py-cpy-mo. Planar to wavy, 0.2-2cm, 1/m, ~40tca. 2. qtz-ser-pyr+/-chl. Stringers, 10/m, 20-30tca. 3. CO3. Planar, uses selvages to vein 1&2, 0.1-1cm, 12/m, random angle. Sulfides: 2% py, 0.3%cpy, 0.03% mo.				Phyllic 1	m	Potassic	w	2	0.3		0			
RVD17-04	L. Bickerton	310.2	314.7	DIO	Lithology: Lithology is the same as above, mg equigranular grey-green bt-hbl diorite. This interval is moderately to strongly sheared, with a foliation (& S-C fabric) visible in the minerals and shear planes approx. 20tca, but maintains the lithology, alteration, and relative mineralization that is described above. The subinterval of 313.7 – 314.74m appears to behave different;ly, is its less sheared and pervasively bleached buff-white, hardness indicates silica? Albite? Alteration: Locally, secondary biotite is visible indicating a weak to mod potassic assemblage. This is overprinted by moderate phyllic alteration, locally strong, with sericite replacing most feldspars in the diorite and mafic sites being preserved or altererd either to sulfides or chlorite. Mineralization: Mineralized veins and sulfide replacements are broken up and displaced by shearing Veins: 1. qtz-py-cpy+/-mo. Wavy (?sheared), ~1-2cm, 2/m, ~30tca. 2. Qtz-ser-pyr-chl+/-graphite. Forming shear planes (weakest layers?) Stringers to 1cm, 20/m, 10-20tca. 3. CO3. stringers, exposes shear planes and cuts core antithetic to shear (syn-kin?, 0.1-1cm, 12/m). Sulfides: 4% py, 0.4% cpy, 0.02% mo.	313.7	314.74	pervasive SiO2(? Alb?)	Phyllic 1	m	Potassic	m	4	0.4		0			
RVD17-04	L. Bickerton	314.7	323.1	DIO	Lithology: Dark grey, medium grained equigranular biotite-hornblende diorite. Interval is heavily altered by biotite and chlorite (after bio?), giving the rock a dark grey appearance and primary textures appear cryptic. Interval hosts higher grade Cu due to extensive cpy in veins and disseminated (with bio alteration), so sampling was done at shorter intervals. Alteration: Strong potassic alteration through this interval gives a dark brown colour to the diorite which makes primary textures difficult to recognize. Biotite alteration has retrograded to chlorite through much of the interval. Mineralization: Most mineralization is associated with veining in this interval as well as disseminations in the vein haloes. Veins: 1. qtz-cpy-po+/-mo, py. 1mm-2cm, planar to wavy, 3/m, 40-70 tca. 2. py-qtz+/-ser. Stringers, 3/m, 20tca. 3. Fe-Carb. Planar, 1cm, 0.5/m, 15tca. Sulfides: 0.5% py, 4% cpy, 2% po, 0.05% mo				Phyllic 1	w	Potassic	s	0.5	4		0.1			
RVD17-04	L. Bickerton	323.1	328.4	QMO	Lithology: Dark grey, fine to medium grained biotite qtz-monzonite. Appears to have plag + alkali feldspar, is non-magnetic, and is missing hornblende phenocrysts (compared to the bt-hbl diorite oberved in other holes. The beginning of interval in beginning is moderate to strong phyllic (qtz-ser) altered (323.09 – 324,59). In the granodiorite/qtz-diorite, granophyre/qtz-feldspar pegmatite occur @ 325.5-325.63. Alteration: Apart from moderate phyllic alteration which is patchy through the interval, there is also a weak carbonate overprint that is associated with a thick dol-py-qtz+/-cal vein @326.81m. Mineralization: Most sulfide mineralization is associated with veining through this interval +/- some disseminated/mafic replacement sulfide. Veins: 1. qtz-mo +/- cpy, py (planar to undulose, 2-3cm, 40-80tca, 1/m) 2. qtz-py +/- ser (stringers to planar, <2mm, 6/m, 25-40 tca). 3. Dol-py-qtz (planar, 4cm, 90 tca) Sulfides: 3% py, 0.5% cpy, 0.05% mo	323.09	324.59	moderate to strong phyllic alteration (qtz-ser)	Carbonatew		Phyllic 1	m	3	0.5		0.1			
RVD17-04	L. Bickerton					325.5	325.63	granophyre/qtz-feldspar pegmatite											
RVD17-04	L. Bickerton	328.4	330.1	DIO	Lithology: Dark grey, medium-grained equigranular biotite-hornblende diorite. Cryptic contact with intrusion above and below, perhaps a different phase within the same intrusion? Diorite is dominantly plag and biotite with pheocrystas of hornblende – it is weakly to non magnetic in this interval, although seen to be magnetic elsewhere. Some small sub intervals (e.g. 329.26 – 329.42) of the finer grained qtz-bio granodiorite interfingering this intrusion (appears to have more of an igneous fabric than surrounding diorite (post-dates?). Alteration: Moderate propylitic assemblage. Most micas and hornblende in the interval have been altered to chlorite, and some chl stringer veins have small haloes with bleached feldspar (alb?). Mineralization: Interval has pyr disseminated throughout and partially replacing some mafic sites. Thin qtz veins occur through this section with minor cpy. Veins: 1. qtz-pyr+/-cpy (<5mm, planar, 70-80 tca, 3/m) 2. chl+/-py (<2mm, planar to whispy, 10/m, 50tca) 3. cal-ser+/-py (<2mm, planar, 3/m, 30tca) Sulfides: 1% py, 0.1% cpy.	329.26	329.42	fine grained qtz-biotite monzonite interfingers with more dioritic phase			Propylitic	m	1	0.1					

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-04	L. Bickerton	330.1	335.1	PPF	Lithology: Fine-grained to plag-phyric biotite qtz-monzonite. Somewhat magnetic (due to alteration and po mineralization?). Similar to the interval described above with more biotite, making pag phenocrysts appear porphyritic – could be a product of alteration. In the granodiorite/qtz-diorite, granophyre/qtz-feldspar pegmatite occur @ 331.98 – 332.33m. Alteration: Moderate propylitic assemblage overprinting a weak potassic(?). Many of the biotite in the interval has retrograded to chlorite, but much of the biotite appears secondary to begin with (clotty in places and associated with mineralized veins). Mag/po also disseminated through the unit (alteration or primary?) Mineralization: Sulfides occur in veins and as disseminations, but are predominantly py and po. Veins: 1. qtz-pyr-po+/-cpy (<5mm, planar, 70-80 tca, 1/m) 2. chl+/-py (<2mm, planar to whispy, 10/m, 50tca) 3. cal-ser+/-py (<2mm, planar, 3/m, 30tca) Sulfides: 0.5% py, 0.08%cpy, 1% po.	331.98	332.33	granophyre/qtz-feldspar pegmatite	Propylitic	m	Potassic	w	0.5	0.1	1				
RVD17-04	L. Bickerton	335.1	347.3	QMO	Lithology: Dark grey, medium-grained equi- to inequigranular biotite (+/-hornblende?) qtz-monzonite. Diorite has feldspar (mostly plag) throughout and localized sections where feldspar appear to have whiter appeearance and gained overgrowths/gotten larger (could be alteration? Alb?). Interval is weakly magnetic throughout (po?). Multiple granophyre/pegmatites (qtz-feldspar graphic intergrowth) with minor mo mineralization through this interval (e.g., 337.45, 338.76-338.96, 344.22). Alteration: Pervasive feldspar overgrowth through much of this interval may be a primary feature to this monzogranite, but may be alteration (to albite? Interval is lacking epidote to be a sodic calcic assemblage...). Haloes of some chl veinlets bleach the feldspar further and harden them (alb), this is likely a weak to moderate propylitic overprint. Most biotite in the granite is relatively fresh apart from partial replacement by chlorite and po +/-mag. (Propylitic w with Carbonate w) Mineralization: Sulfides associated with sparse veining (py>>cpy) and disseminated/mRep py and po is throughout the interval. Veins: 1. qtz +/- cpy, py w/ SiO2 in halo (planar to slightly undulose, 0.5 - 1cm, 20-30tca, 5/m) 2. chl-py w/ alb halo (stringers to planar, <5mm, 4/m, 25 tca). 3. Cal-ser-qtz (stringers along fractures, <1mm, random angle) Sulfides: 0.8% py, 0.1% cpy, 1% po, 0.03% mo.	337.45	337.46	granophyre/pegmatite with qtz-feldspar graphic intergrowth, minor mo mineralization	Carbonate	w	Propylitic	w	0.8	0.1	1	0			
RVD17-04	L. Bickerton					338.76	338.96	granophyre/pegmatite with qtz-feldspar graphic intergrowth, minor mo mineralization											
RVD17-04	L. Bickerton					344.22	344.23	granophyre/pegmatite with qtz-feldspar graphic intergrowth, minor mo mineralization											
RVD17-04	L. Bickerton	347.3	356.2	QMO	Lithology: As described above, dark grey medium-grained equi- to inequigranular biotite (+/-hornblende) monzogranite. New interval due to change in alteration. Interval is weakly to moderately magnetic through (could be po, appears to strengthen outside of main bio alteration paths). Again, granophyre/pegmatites (qtz-feldspar graphic intergrowth) with minor mo mineralization occur through this interval (e.g., 347.33, 354.47). Alteration: A weak to moderate potassic (bio) alteration occurs in patches through this interval. Primary biotite +/-hbl is replaced by a ragged brown-grey biotite and the surrounding groundmass in the granite is silicified where this occurs. Locally there is phyllic channels where greey-grey sericite is increased replacing some feldspar and bio is removed – as well as stringers of carbonate ireegularily distributed and affecting the granite. Mineralization: Sulfides associated with veining (py>cpy) and disseminated/mRep py and po is through interval, particularily so where secondary biotite occurs. Veins: 1. qtz +/- cpy, py, mo +/- SiO2 in halo (planar to slightly undulose, 0.5 - 1cm, 20-30tca, 5/m) 2. ser-qtz-py (planar, 0.1cm, 4/m, 40-60 tca) 3. Cal-ser-qtz (stringers along fractures, <1mm, random angle) Sulfides: 1% py, 0.8% cpy, 0.06% mo.	347.33	347.34	granophyre/pegmatite with qtz-feldspar graphic intergrowth, minor mo mineralization	Phyllic 1	w	Potassic	w	1	0.8	0.1				
RVD17-04	L. Bickerton					354.47	354.48	granophyre/pegmatite with qtz-feldspar graphic intergrowth, minor mo mineralization											
RVD17-04	L. Bickerton	356.2	363.3	QMO	Lithology: Light to dark grey, medium-grained equigranular biotite monzogranite. Feldspar (mostly plag) is dominant and some sections appear to have a bleached appeearance with larger fsps and less biotite (gained overgrowths/gotten larger, could be alteration to Alb?). Interval is weakly magnetic throughout (po?). Beginning of interval (356.22 – 356.48) is a biotite rich/crowded plag-phyric phase of same intrusion. Alteration: Rock looks relatively fresh aside from bleach appearance of some feldspar (silica/alb?). Haloes of some chl veinlets bleach the feldspar further and harden them (alb), this is likely a weak to moderate propylitic overprint. Most biotite in the granite is relatively fresh apart from partial replacement by chlorite and po +/-mag. (Propylitic w with Carbonate w) Mineralization: Sulfides associated with veining (py>cpy) and disseminated/mRep py and po is throughout the interval.Veins: 1. qtz – py +/- cpy +/- SiO2 in halo (planar to slightly undulose, 0.5 - 1cm, 20-30tca, 5/m) 2. chl-py w/ alb halo (stringers to planar, <5mm, 2/m, 25 tca). 3. Cal-ser-qtz (stringers along fractures, <1mm, random angle) Sulfides: 1% py, 0.08% cpy, 0.8% po, 0.01% mo.	356.22	356.48	biotite rich/crowded plag-phyric porphyry of same intrusion (PPF?)	Carbonate	w	Propylitic	w	1	0.1	0.8	0			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-04	L. Bickerton	363.3	368.6	QMO	Lithology: Similar as described in the potassically altered interval above previous unit, dark grey medium-grained equigranular biotite monzogranite. Weakly to non-magnetic through (could be po, appears to weaken in main bio alteration paths apart from select mafic sites of secondary po and mag). Granophyre/pegmatite (qtz-feldspar graphic intergrowth) at 368.38, 368.53). Alteration: A weak to moderate potassic (bio) alteration occurs in patches through this interval. Primary biotite +/-hbl is replaced by a ragged brown-grey biotite and the surrounding groundmass in the granite is silicified where this occurs. Within these zones, po+/- mag also replaces mafic sites. Locally there is a phyllic vein assemblage and halo that have since been overprinted/re-exposed by carbonate alteration (@ ~367.85m). Mineralization: Sulfides associated with veining (py>cpy) and disseminated/mRep py and po is through interval, particularily so where secondary biotite occurs. Veins: 1. qtz-bio-po-cpy-py +/- SiO2 in halo (planar 0.5 - 2cm, 20-30tca, 3/m) 2. ser-chl-py (planar, 0.1cm, 0.5/m, 20 tca) 3. Cal-ser (reexposes vein 2, <1mm) Sulfides: 1% py, 0.8% cpy, 2% po, 0.05% mo.	367.85	367.86	carbonate alteration over phyllic assemblage	Phyllic 1	w	Potassic	w	1	0.8	2	0.1			
RVD17-04	L. Bickerton					368.38	368.39	granophyre/pegmatite with graphic texture											
RVD17-04	L. Bickerton					368.53	368.54	granophyre/pegmatite with graphic texture											
RVD17-04	L. Bickerton	368.6	377	QMO	Lithology: Light to dark grey, medium-grained equigranular biotite monzogranite. Feldspar (mostly plag) is dominant and later in the interval (374 – 376.97) granite appears more bleached with larger fsps and less biotite (alteration? Fsp cumulate phase?). Interval is weakly to non magnetic throughout. Granophyre/peg at 371.92m & 371.42 - 371.46m. Alteration: Weak propylitic alteration overprinted by patchy moderate phyllic (ser-chl). This is subsequently overprinted by carb veins (or cal + anh->gyp?). Mineralization: Sulfides associated with veining (py>cpy) and disseminated/mRep py and po is throughout the interval.Veins: 1. qtz – py +/- cpy, po, mo (planar to slightly undulose, 0.5 - 1cm, 20-40tca, 3/m) 2. Ser-chl+/-py (stringers to planar, <5mm, 4/m, 30 tca). 3. Cal-ser-qtz +/- anh->gyp? (planar, <1mm - 2cm, 20tca) Sulfides: 1.5% py, 0.05% cpy, 0.5% po, 0.01% mo.	371.42	371.46	granophyre/pegmatite with graphic texture	Phyllic 1	m	Propylitic	w	1.5	0.1	0.5	0			
RVD17-04	L. Bickerton					371.92	371.93	granophyre/pegmatite with graphic texture											
RVD17-04	L. Bickerton					374	376.97	fsp is more abundant											
RVD17-04	L. Bickerton	377	380.3	QMO	Lithology: Light to dark grey, medium-grained equigranular biotite monzogranite as described in the previous intervals. Alteration: A weak to moderate potassic (bio) alteration occurs in patches through this interval. The remainder of the interval has undergone moderate to strong phyllic alteration where feldspars and mafic sites have both been replaced by sericite and clays in association with thick qtz-py dominant veins. Mineralization: Sulfides associated with veining (py>cpy) and trace py and cpy are partially replacing mafic sites in the groundmass. Veins: 1. qtz-bio-cpy+/-py (stringers to 1mm, 25 tca, 5/m). 2. qtz – py +/- cpy w/ wide ser+chl halo (planar, 1-2cm, 20-30tca, 2/m) Sulfides: 1% py, 0.08% cpy, 0.8% po, 0.01% mo.				Phyllic 1	m	Potassic	w	1	0.1	0.8	0			
RVD17-04	L. Bickerton	380.3	383.3	Metamorphic	Lithology: Xenolith or raft of YTT metamorphic rock (?) + a sub interval of fine grained granitic rock (granophyre with intergrown qtz-fsp?) between 381.74 – 382.65. Difficult to determine protolith, dark brown biotite-rich layers to light buff tan qtz-fsp rich layers (YTT gneiss?), foliation ranges from 45 to near orthogonal to core axis. Alteration: Interval appears heavily altered by SiO2 and phyllic veining/ser replacement of feldspars through the interval. Mineralization: Interval is better mineralized than surrounding ggranite, with veining being more common and carrying cpy +/- mo with po and py (fluids use S or Cu from metamorphic rock? Veins easier to form in this lith?). Veins: 1. qtz-cpy+/-py, mo (stringers to 5mm, 45 tca, 5/m). 2. ser-chl-cal +/- py w/ ser+chl halo (planar, 1-2cm, 45tca, 2/m) Sulfides: 3% py, 0.2% cpy, 0.3% po, 0.01% mo	381.74	382.65	granophyre/pegmatite with graphic texture	Phyllic 1	m	silica	m	3	0.2	0.3	0			
RVD17-04	L. Bickerton	383.3	394	QMO	Lithology: Light to dark grey, medium-grained equigranular biotite monzogranite as described in the intervals above. Interval is weakly to non magnetic throughout. Granophyre/peg between 383.47 – 383.72m, 390.53 – 390.69m. Alteration: Weak propylitic assemblage throughout the interval with patchy biotite alteration (weak potassic) @ 383.75-384.05m, 387.8-388.2m, and local phyllic veins with small envelopes. Mineralization: Sulfides associated with veining (py>cpy) and disseminated/mRep py and po is throughout the interval.Veins: 1. qtz – py +/- cpy, po, mo (planar to slightly undulose, 0.5 - 1cm, 20-40tca, 3/m) 2. Ser-chl+/-py (stringers to planar, <5mm, 0.5/m, 30 tca). Sulfides: 1.5% py, 0.05% cpy, 0.5% po, 0.01% mo.	383.47	383.72	granophyre/pegmatite with graphic texture	Propylitic	w	Potassic	w	1.5	0.1	0.5	0			
RVD17-04	L. Bickerton					390.53	390.69	granophyre/pegmatite with graphic texture											
RVD17-04	L. Bickerton					383.75	384.05	patchy biotite (pot) alteration											
RVD17-04	L. Bickerton					387.8	388.2	patchy biotite (pot) alteration											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-04	L. Bickerton	394	396.7	Metamorphic	Lithology: Xenolith or raft of YTT metamorphic rock (?). Abundant dark brown biotite-rich layers with lesser qtz-filled felsic layers (YTT amphibolite?), foliation ranges from 45 to near orthogonal to core axis. Alteration: Interval appears heavily altered by SiO2 and phyllic veining/ser replacement of feldspars through the interval. Mineralization: Interval is better mineralized than surrounding granite, with veining being more common and carrying cpy +/- mo with po and py (fluids use S or Cu from metamorphic rock? Veins easier to form in this lith?). Veins: 1. qtz-cpy+/-py, mo (stringers to 5mm, 45 tca, 5/m). 2. ser-chl-cal +/- py w/ ser+chl halo (planar, 1-2cm, 45tca, 2/m) Sulfides: 3% py, 0.2% cpy, 0.3% po, 0.01% mo						silica	w	3	0.2	0.3	0			
RVD17-04	L. Bickerton	396.7	399.1	QMO	Lithology: Light to dark grey, medium-grained equigranular biotite monzogranite, similar to the intervals above. 398.5 – 398.68m mineralized dyke of fsp-phyric dark grey-brown porphyry (described in next interval). Alteration: Weak propylitic alteration overprinting patchy weak potassic assemblages that are associated with mineralized veins. Mineralization: Sulfides associated with veining (py>cpy) and disseminated/mRep py and po is throughout the interval.Veins: 1. qtz – py +/- cpy, po, mo (planar to slightly undulose, 0.5 - 1cm, 20-40tca, 3/m) 2. Ser-chl+/-py (stringers to planar, <5mm, 4/m, 30 tca). 3. Cal-ser-qtz +/- anh->gyp? (planar, <1mm - 2cm, 20tca) Sulfides: 1.5% py, 0.05% cpy, 0.5% po, 0.01% mo.	398.5	398.68	mineralized dyke of fsp-qtz phyric intermediate porphyry	Propylitic	w	Potassic	w	1.5	0.1	0.5	0			
RVD17-04	L. Bickerton	399.1	399.8	QFP	Lithology: Dark brown-grey feldspar(+/-qtz)-phyric porphyry dyke. Groundmass is silica rich (pervasivley altered?) and margins have chill (~2cm). Feldspar phenocrysts (2-3mm) have rounded to subrounded drusy edges, some rimmed with sulfide mineralizition. Qtz phenocrysts are smaller and less in proportion with same morphology (rounded, drusy edges). Dyke appears altered and veined, making primary texture description difficult. Alteration: Silica flooding of groundmass (?) Mineralization: Sulfides occur disseminated and in veins throughout this dyke – more mineralized than host granitoid rock. Veins: 1. qtz-py-cpy+/-mo (planar/stockwork, 1-3mm, random orientation, 30/m). Sulfides: 1% py, 0.5% cpy, 0.05% mo.						silica	w	1	0.5	0.1				
RVD17-04	L. Bickerton	399.8	411.5	QMO	Lithology: Light to dark grey, medium-grained equigranular biotite monzogranite, similar to the intervals above. Granophyre/graphic pegmatite/aplite dyke occurs later in the interval and contains intergrown qtz-feldspar with minor molybdenite (@408.69 – 408.97). Alteration: Weak potassic alteration occurs locally (e.g., 401.54 – 402.04, 404.93 – 405.19) and is associated with some thin mineralized veins, but the predominant alteration through the interval is a weak propylitic (chl+/- alb, mag, po, pyr). Patches of phyllically altered granite (401.64 – 402.24, 406.63 – 407.93, 410 – 410.4) overprint the interval and are associarted with thicker veining that carries minor mineralization (py>mo). Mineralization: Most mafic sites in this interval are partially replaced by sulfides (po>py). Primarily, however, sulfides are associated with veining in this interval. Veins: 1. qtz-cpy-po +/- 2cm bio-ksp halo (planar 1-5mm, 55tca, 3/m). 2. qtz-py-mo +/- chl w/ 1cm SiO2 halo (planar 0.1-1cm, 70tca, 1/m). 3. qtz +/- cal w/ 30cm ser-chl halo (undulose to planar, 2-3 cm, 10-20tca, 0.5/m). 4. ser-chl+/-py (stringer, 30tca, 10/m). 5. carb (stringer, 20-30tca, 5/m). Sulfides: 0.8% py, 0.3% cpy, 1% po, 0.08% mo.	401.54	402.04	weak potassic alteration	Propylitic	w	Potassic	w	0.8	0.3	1	0.1			
RVD17-04	L. Bickerton					401.64	402.24	moderate phyllic alteration											
RVD17-04	L. Bickerton					404.93	405.19	weak potassic alteration											
RVD17-04	L. Bickerton					406.63	407.93	moderate phyllic alteration											
RVD17-04	L. Bickerton					408.69	408.97	granophyre/pegmatite with graphic texture and aplite dyke with UST textures between the two, minor moly min. Associated with dyke											
RVD17-04	L. Bickerton					410	410.4	moderate phyllic alteration											
RVD17-05	L. Bickerton	0	3.49	OVB	Overurden														
RVD17-05	L. Bickerton	3.49	27.68	TUF	Lithology: Diatreme Breccia; light grey to buff-tan crystal(-lithic) tuff breccia. Unit is poorly sorted and is predominantly made up of a fine-grained crystal-rich matrix (~60-65%). The matrix is composed dominantly of rounded to sub-rounded feldspar (~70% of xtals) and quartz (~20% of xtals) with minor disseminated mafics (bio?) and sulfides (some of the former replaced by the latter). The fragments in this interval (lithics) make up 40-45% of the rock and have variable size (ca. 5mm to 5cm) and composition (ranging from fragments of qtz-fsp porphyritic to aphanitic hypabyssal fragments [~50% of lithics], qtz+sulfide [vein fragments?, ~20% of lithics, py>>cpy>mo], rounded and somewhat large (3-7cm) leucocratic granitoid fragments [~20%], and metamorphic/hornfelsed fragments [~10% of lithics]. Alteration: apart from oxidation due to near-surface weathering, the interval appears weakly phyllically altered, with clays +/-ser replacing most feldspar crystals and pyr replacing some mafic crystals (also occurs along fractures). Mineralization: Limonite/hematie replacing many sulfides, but py appears in clots and replacements of some fragments (+/- disseminations). Sulfides: 3% py, 0.02% cpy, 0.01% mo				Phyllic 1	w			3	0	0				

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-05	L. Bickerton	27.68	28.68	TUF	Lithology: Diatreme Breccia; light grey to buff-tan crystal tuff breccia. Another phase of the diatreme that is dominantly matrix (rounded to sub-rounded very fine to fine-grained feldspar and quartz with minor and sulfides) with very few fragments (~10 % QFP fragments). Fractures with Manganese cross-cutting. Alteration:part from oxidation due to near-surface weathering, the interval appears weakly phyllically altered, with clays +/-ser replacing most feldspar crystals and pyr replacing some mafic crystals (also occurs along fractures). Mineralization: Limonite/hematie replacing many sulfides, but py appears in clots and replacements of some fragments (+/- disseminations). Sulfides: ~1% py				Phyllic 1	w			1						
RVD17-05	L. Bickerton	28.68	43.17	TUF	Lithology: Diatreme Breccia; light grey-red lithic tuff breccia. Interval contains larger and more lithic fragments, and matrix is redder (hem alteration?). Locally some fragments appear to be diatreme breccia (cannibalized fragments? later phase with a more hydrothermal component?). Compositional range also slightly differs with an increased content of granitic fragments (bio-qtz-fsp-granodiorite to fine grained leucogranite). Alteration: interval appears weakly phyllically altered, with clays +/-ser replacing most feldspar crystals and pyr replacing some mafic crystals (also occurs along fractures). Hem (dull red and specular) and manganese alteration/fracture-coating throughout and partially replacing fragments. Mineralization: Pyrite the most common sulfide due to what is observed below interval and the dominance of hematite replacement. Some fragments of QFP have sulfide veins that are truncated. +/- weak malachite occurrence along some oxidized fractures. Sulfides: ~2% py, 0.01%cpy, 0.01%mo				Phyllic 1	w	Iron	m	2	0		0			
RVD17-05	L. Bickerton	43.17	74	TUF	Lithology: Lithic (-crystal) tuff breccia (diatreme); buff grey-red, contains coarse lithic fragments (0.5 – 20cm) that make up ~90% of interval, and are composed dominantly of qtz-feldspar porphyritic rock > fine-grained granodiorite > qtz/sulfide fragments > metamorphic rock. Locally (45.52 – 46.22m) matrix appears more hydrothermal (cement?) and is composed of very fine grained grey to red-stained fsp(?). Alteration: Matrix is altered by hem (reddish brown) and sericite-clay (weak phyllic over moderate iron). Mineralization: Pyrite found mineralized throughout as mineral replacements, as fragments within the diatreme, and as disseminations associated with the phyllic overprint. Sulfides: ~2% py, 0.01%cpy				Phyllic 1	w	Iron	m	2	0		0			
RVD17-05	L. Bickerton	74	151.6	TUF	Lithology: light grey to buff brown crystal tuff breccia (diatreme). Contact with unit above is somewhat gradational, fragments become much less coarse (0.2-4cm, outlier 13-14cm fragments of QFP) and less crowded (fragments are ~35-40% of rock) through this interval. Compositionally, the fragmantes are similar to the above interval, where QFP > granitoid (bio-qtz-fsp-granodiorite to fine grained leucogranite) > Plag-phyric porphyry > sulfide+/-qtz > metamorphic fragments. Matrix is composed of fine-grained, sub- to euhedral crystals of qtz and feldspar +/- sulfides and amorphous altered felsic material (lapilli?). From ~84m downwards, interval becomes more homogeneous and on the lithic-rich side of the crystal-tuff breccia spectrum. Locally, there are 0.5-5cm dyklets of aphyric buff grey-green felsic material (vfg later-phase of diatrme matrix? e.g., 98.16 – 98.56 [40tca], 131.79 [20tca]). Alteration: Weak phyllic overprint through this interval, changing most feldspar to sericite-clay within and/or rimming fragments and somewhat in the matrix to the diatreme breccia. Mineralization: Sulfides (mostly py) occur as fragments within the breccia, but are also found replacing fragments or disseminated through the interval (euhedral, cubic pyr overgrowing tuff cystals). Few veins: sparse qtz-ser (whispy, irregular angle tca, 0.1/m; these also form as fractures with no infill, but py and ser along halo). Sulfides that occur in fragments may have minor association with cpy and mo (brecciated veins?). There is also a fine grained dark grey-purple mineral pervasively scattered through this rock (oxide? specular hematite? Pyrolusite? Difficult to say without coarser crystals...). ~146m, sulfide minz. begins to increase with tr cpy. Sulfides: ~1.5% py, 0.01%/trace cpy, 0.01%/trace mo	98.16	98.56	felsic dyklet of vfg material (late phase diatreme matrix? Aplite?)	Phyllic 1	w			1.5	0		0			
RVD17-05	L. Bickerton			TUF		131.79	132.29	felsic dyklet of vfg material (late phase diatreme matrix? Aplite?)											
RVD17-05	L. Bickerton	151.6	184.4	TUF	Lithology: Same lithology as above, althought fragments of breccia appear slightly more crowded (~45% of rock) and there is an increase in sulfide content (from ~1.5% to ~2-2.5%). Alteration: Weak phyllic overprint through this interval, changing most feldspar to sericite-clay within and/or rimming fragments and somewhat in the matrix to the diatreme breccia. Mineralization: Sulfides (mostly py) occur as fragments within the breccia, but are also found replacing fragments or disseminated through the interval (euhedral, cubic pyr overgrowing tuff cystals). Vein content increases density in this interval, but still is py-ser, locally as irregular fractures with mineralization peripheral to these (<1-2mm, ~3/m, 20-25 tca). Sulfides: 2.5% py, 0.03% cpy, 0.01% mo.				Phyllic 1	w			2.5	0		0			
RVD17-05	L. Bickerton	184.4	213.1	TUF	Lithology: Same lithology as above, but the weak phyllic overprint becomes even weaker, if present at all. Matrix is slightly coarser and harder to scratch (less ser replacment? Increase in qtz content?) Alteration: Weak patchy phyllic (ser-chl) overprint through this interval, mostly recognized where rimming some graniotid fragments (rounded edges and coronas of ser). Mineralization: Sulfides (py>>cpy) occur as fragments within the breccia and are also found replacing fragments or disseminated through the interval (euhedral, cubic pyr overgrowing tuff cystals). Vein content remains similar to above interval: py-ser, locally as irregular fractures with mineralization peripheral to these (<1-2mm, ~3/m, 20-25 tca). Pervasively scattered throughout interval is small (<0.5mm) flecks of dark grey-blue oxide(?) - likely spec. Hem or pyrolusite (+/-mo?) Sulfides: 2.5% py, 0.02% cpy, 0.01% mo				Phyllic 1	w			2.5	0		0			

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RVD17-05	L. Bickerton	213.1	219.3	TUF	Lithology: Dark to light grey crystal-rich lithc-tuff breccia (diatreme). Dark to light grey-buff and more moderately altered, contains crowded medium- to fine-grained, rounded to sub-rounded, lithic fragments (0.2 – 6cm, outlier 10-12cm) that make up ~80% of interval, and are composed dominantly of qtz-feldspar porphyritic rock > plag-phyric porphyry > fine-grained granodiorite > qtz/sulfide fragments +/- metamorphic fragments. The matrix is dominantly altered to chl-ser, but was likely vfg to fg qtz-feldpar tuff. Alteration: Moderate to strong phyllic (ser-chl-py) alteration in beginning of interval (213.08 – 214.88) and continues to alter rest of interval (weak). Mineralization: Sulfides (py>>cpy) occur both as fragments within the breccia and disseminated through the interval. This interval appears to have an increased amount of sulfides in the matrix- aproduct of alteration? Hydrothermal component to the tuff-breccia? Veins occur as very thin stringers that are sparsely populating this interval (py, <1-2mm, ~3/m, 20-25 tca). Py in matrix/cement occurs as bladed crystals (marcasite?) and intergrown with minor cpy +/- qtz, mo? - could be a localized hydrothermal crackle-brecciation of tuff-breccia Sulfides: 4% py, 0.05% cpy, 0.01% mo				Phyllic 1	m			4	0.1		0			
RVD17-05	L. Bickerton	219.3	224.8	TUF	Lithology: Tranistionary/intermingled unit of crystal-tuff and lithic-tuff breccia (diatreme), both of which are described above in detail. Ranges from areas of fragment crowded (~80-90% of rock, e.g. 222.63 – 223.43m) to crystal-matrix dominant (~70-75% of rock, e.g., 220.08 – 220.88m). Somewhat less mineralized than previous interval, but py and pervasive fing grained spec. Hem throughout. Fragment composition and maturity is similar to the previous intervals; locally there is fragments of graphic textured qtz-fsp (fragmetns of granophyre/pegmatite?), and there appears to be an increase in "lapilli" content (that is, fragments of fine-grained to aphyric felsic material with weak fabric: tuff fragment?) Alteration: Weak phyllic (ser-chl-py) alteration in this interval is of lesser strength, but same assemblage as observed in the previous interval. Some fragments are completely replaced by ser (perhaps transported this way?), while others have a weak ser-rich rim and/or chl-pyr replacement. Mineralization: Sulfides (mostly py) occur as fragments within the breccia and disseminated through the interval (euhedral, cubic pyr overgrowing tuff cystals). Fine grained dark grey-purple mineral pervasively scattered through this rock (oxide? specular hematite? Pyrolusite?). QFP fragments carry trace cpy+/-mo as disseminations. Sulfides: ~1.5% py, 0.01%/trace cpy, 0.01%/trace mo	220.08	220.88	Crystal-matrix dominant (~70% of rock)	Phyllic 1	w			1.5	0		0			
RVD17-05	L. Bickerton					222.63	223.43	crowded fragments (~80% of rock)											
RVD17-05	L. Bickerton	224.8	233.2	TUF	Lithology:Dark to light grey crystal-rich lithc-tuff breccia (diatreme). Crowded medium- to fine-grained, rounded to sub-rounded, lithic fragments (1 – 6cm, outlier 10-15cm) that make up ~70% of interval, and are composed dominantly of qtz-feldspar porphyritic rock > medium-coarse-grained granodiorite > qtz/sulfide fragments = plag-phyric porphyry > metamorphic fragments. The matrix is dominantly altered to chl+/-ser from vfg to fg qtz-feldpar 'tuff'. Alteration: Moderate phyllic (ser-chl-py) alteration. Sericite replaces whole fragments and rims others, +ser-chl is pervasive through the matrix and in the groundmass of some QFP fragments. Mineralization: Sulfides (py>>cpy) occur more as alteration/matrix replacement and later fracture fill than as fragments within the breccia. Veins occur as very thin stringers to fractures that have pyr +/-ser-chl replacing and overprinting minerals in the halo (py+/-ser-chl, <1mm, ~1/m, 65 tca). Some fragments of QFP carry trace cpy and mo. Sulfides: 1% py, 0.02% cpy, 0.01% mo				Phyllic 1	m			1	0		0			
RVD17-05	L. Bickerton	233.2	235.1	HBX	Lithology: Clast-supported qtz-mo-py-ser crackle breccia (phyllic HBX). Fragments in breccia have been transported very little, if at all, and resemble lithologies described above (lithic-tuff breccia with coarser fragments of ~10-12 cm, better porosity a reason for bx localization?). Fragments within clasts of tuff-breccia are predominantly QFP +/- graniotid and YTT wallrock. The cement to the phyllic breccia through this interval is composed of qtz-ser-py-mo+/- marcasite and aspy. The alteration haloes associated with this cement are SiO2 rich +/- ser. Alteration: Moderate phyllic (qtz-ser) through the interval due to the HBX, SiO2 occurs mainly in hbx cement and in the haloes along clast boundaries- sericite occurs pervasively, as well as in cement, Mineralization: Mineralization occurs mainly in the breccia cement as py +/- mo and aspy, as well as trace cpy in the clasts as part of qtz-sulfide fragments or replacements among the matrix. Sulfides: ~4% py, 0.08% cpy, 0.05% mo				Phyllic 1	m			4	0.1		0.1			
RVD17-05	L. Bickerton	235.1	236	HBX	Lithology: Continuation of hydrothermal breccia but of different character. This 1 meter interval is cement dominant (~55-60%) and cement has an increased moly content to the point where it is pervasive through the interval. Clasts are composed of the lithic-tuff breccia and its respective fragments, compositionally similar to those described in previous intervals. Metamorphic fragments contain cpy-py mineralization (veins parallel to foliation that are truncated by the qtz-mo-py-ser+/-aspy breccia cement. Sulfide content appears to increase at either contact with the crackle breccia above and below. Alteration: Moderate phyllic (qtz-ser) through the interval due to the HBX. Fragments/clasts are moderately to heavily sericitized and secondary pyrite forms throughout. Mineralization: Mineralization occurs mainly in the breccia cement as py (+marcasite)-mo-cpy +/- aspy. Sulfide content in cement is complimented by that of the fragments (diss. py+cpy+/-aspy? in QFP fragments) and cross-cutting veins which are truncated at fragment boundaries (qtz-py-cpy planar, <5mm, within YTT metamorphics). Sulfides: ~10% py, 0.5% cpy, 3% mo				Phyllic 1	m			10	0.5		3			
RVD17-05	L. Bickerton	236	238.4	HBX	Lithology: Clast-supported qtz-mo-py-ser crackle breccia (phyllic HBX). Fragments in breccia have been transported very little, if at all, and resemble lithologies described above (crystal-tuff breccia). Fragments within clasts of tuff-breccia are predominantly graniotid. The cement to the phyllic breccia through this interval is composed of qtz-ser-py+/-mo, marcasite. The alteration haloes associated with the cement is pervasive ser. Alteration: Moderate phyllic (qtz-ser) through the interval due to the HBX, SiO2 ccurs mainly in hbx cement, the haloes along clast boundaries contain sericite (which also occurs pervasively through diatreme clasts) Mineralization: Mineralization occurs mainly in the breccia cement as py +/- mo and aspy, as well as trace cpy in the clasts as part of qtz-sulfide fragments or replacements among the matrix. Sulfides: ~4% py, 0.08% cpy, 0.05% mo				Phyllic 1	m			4	0.1		0.1			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-05	L. Bickerton	238.4	240.8	HBX	Lithology: Matrix-supported hydrothermally brecciated (mix of cement and altered tuff-breccia matrix?) lithic-tuff breccia (diatreme HBX). Cement is composed of quartz-sericite-py-cpy+/-mo? And appears clotty and to be altering the matrix to a fragment/clast inventory that is similar to the tuff-breccias above (QFP > PPF > granitoid > qtz-sulfide > YTT wallrock). Contact with unit below is at approx. 35 tca. Alteration: Moderate phyllic (qtz-ser) through the interval due to the HBX, SiO2 ccurs mainly in hbx cement, the haloes along clast boundaries contain sericite (which also occurs pervasively through diatreme clasts) Mineralization: Mineralization occurs mainly as clots of sulfide in the breccia cement as py-cpy+/-marcasite, or as fragments within the breccia (mineralized clasts of qtz-sulfide). Sulfides: 2% py, 0.5% cpy, 0.03% mo				Phyllic 1	m			2	0.5		0			
RVD17-05	L. Bickerton	240.8	253.6	TUF	Lithology: Light grey f.g. crystal-tuff breccia (diatreme). Crowded fine- to very-fine grained, sub- to euhedral qtz and fsp dominant through the interval (~90%) with sparse fragments (~10%, 1-5cm) that are composed of QFP > graniotid > qtz-sulfide fragments > matrix material ("lapilli"?). Locally, there appears to be some hydrothermal breccia/veining (e.g., 245.42 – 245.57, 249.52) and aphyric felsic late dyklets (aplite? 251.96 – 252.1). Alteration: Weak to moderate phyllic (ser-chl-py) alteration. Sericite replaces feldspars in the matrix and the phenocrysts of some QFP fragments. Mineralization: Sulfides (py>cpy) occur clotty replacements/fracture-fill through the matrix in this interval, less so as disseminations in the matrix. Veins: 1. qtz-mo-py+/-cpy w/ser in selvage and halo... fsp rep? (~0.5-1cm, planar and bx infill, 80tca, 0.5/m) 2. qtz-ser-py, locally as bx cement (~1-10mm, planar, 45tca, 2/m) Sulfides: 1% py, 0.4% cpy, 0.05% mo	245.42	245.57	hydrothermal brecciation/veining	Phyllic 1	m			1	0.4		0.1			
RVD17-05	L. Bickerton					249.52	249.6	hydrothermal brecciation/veining											
RVD17-05	L. Bickerton					251.96	252.1	aphyric late phase dyke											
RVD17-05	L. Bickerton	253.6	256	HBX	Lithology: Matrix-supported hydrothermally brecciated (mix of cement and altered tuff-breccia matrix?) lithic-tuff breccia (diatreme HBX). Cement is composed of quartz-py-cpy-mo+/-ser, aspy? Cement appears clotty when observed, locally being >75% of matrix/cement (e.g., 255.6-255.95), but predominantly <40% of the matrix/cement. Fragment/clast inventory that is similar to the tuff-breccias above (QFP > Plag-phyric porphyry > granitoid > qtz-sulfide > YTT wallrock). Contact with unit below is at approx. 20 tca. Alteration: Moderate phyllic (qtz-ser) through the interval due to the HBX, SiO2 ccurs mainly in hbx cement, the haloes along clast boundaries contain sericite (which also occurs pervasively through diatreme clasts) Mineralization: Mineralization occurs mainly as clots of sulfide in the breccia cement as py-cpy+/-mo, marcasite, or as fragments within the breccia (mineralized clasts of qtz-sulfide). Sulfides: 8% py, 1% cpy, 0.15% mo	255.6	255.95	cement rich interval (>75% of breccia fill)	Phyllic 1	m			8	1		0.2			
RVD17-05	L. Bickerton	256	274.9	TUF	Lithology: Light grey f.g. crystal-tuff breccia (diatreme). Crowded fine- to very-fine grained, sub- to euhedral qtz and fsp dominant through the interval (~60-65%) with coarse rounded to sub-rounded fragments (~40-45%, 2-15cm) that are composed of QFP > qtz-sulfide fragments > plag-phyric prophyry > YTT layered gneiss/wallrock (these can be outliers in size, >20cm). Alteration: Weak phyllic (ser-qtz-py) alteration. Sericite replaces feldspars in the matrix and the phenocrysts of some QFP fragments. Mineralization: Sulfides (py>cpy) occur clotty replacements and fracture-fill through the matrix in this interval, less so as disseminations in the matrix. Sulfides also present as part of qtz-sulfide assemblage that is now brecciated fragments (former veins?). Veins: 1. qtz-py+/-cpy, mo, ser(?) (<1cm, planar and bx infill, 10-30tca, 2/m) Sulfides: 1% py, 0.08% cpy, 0.01% mo				Phyllic 1	w			1	0.1		0			
RVD17-05	L. Bickerton	274.9	284.6	TUF	Lithology: Light grey lithic-rich crystal-tuff breccia (diatreme). Crowded fine- to very-fine grained, sub- to euhedral qtz and fsp make up matrix through the interval (~50-55%) with sub-rounded to sub-angular fragments (~45-50%, 2-5cm) that are composed of QFP > plag-phyric prophyry > qtz-sulfide fragments > YTT layered gneiss/wallrock. Locally, there appears to be some areas with hydrothermal breccia/veining and hematite alteration/staining (e.g., 278.3 – 279.3m). Alteration: Weak phyllic (ser-qtz-py) alteration. Sericite replaces feldspars in the matrix and the phenocrysts of some QFP fragments, as well as causing reaction rims in fragments of variable thickness. Mineralization: Sulfides (py>cpy) occur clotty replacements and fracture-fill through the matrix in this interval, less so as disseminations in the matrix. Sulfides also present with quartz as brecciated fragments. Veins: 1. py stringers +/-qtz (<1mm, 10-45tca, 10/m) Sulfides: 2% py, 0.05% cpy, 0.01% mo	278.3	279.3	HBX with associated hem staining?	Phyllic 1	w			2	0.1		0			
RVD17-05	L. Bickerton	284.6	334.3	TUF	Lithology: Light grey lithic-rich crystal-tuff breccia (diatreme, as above but fragment inventory slightly different). Crowded fine- to very-fine grained, sub- to euhedral qtz and fsp make up matrix through the interval (~50-55%) with sub-rounded to sub-angular fragments (~45-50%, 2-5cm) that are composed of QFP > qtz-sulfide fragments > plag-phyric prophyry > YTT layered gneiss/wallrock. Sulfide bearing fragments make up approx. half of the fragment inventory and sulfides of this type are associated with QFP, milky white qtz, and dark grey qtz fragments. There is also local zones of hydrothermal brecciation where qtz-py+/-cpy are precipitated with hem alteration (e.g., 292 – 292.3, 308.5 – 308.68, 317.6 – 317.84, 329.54 – 329.84). Aplitic to qtz-phyric felsic dyke(not fragment? Cuts secondary sulfide mineralization in matrix) at 288.2 – 288.3m @ 60tca. Alteration: Patchy moderate iron alteration (hem satining associated with sulfide mineralization pockets, see the above sub-intervals) overprints a pervasive moderate to weak phyllic (ser-chl-py) alteration. Sericite replaces feldspars in the matrix and the phenocrysts of some QFP fragments, as well as causing reaction rims in fragments of variable thickness. Ser veining also becomes denser and wider in this interval. Mineralization: Sulfides (py>cpy) are abundant in this interval and a majority appear as fragments (associated with QFP, milky white qtz, and dark grey qtz) and occur locally as cement fill in small intervals of hydrothermal brecciation/hem alteration (see intervals listed in lithology description). Disseminated and vein related sulfides are predominantly pyrite +/- marcasite associated with both phyllic and iron alteration. Veins: 1. qtz-py+/-cpy w/ 4cm hem halo (planar, 2-3mm, 30tca, 3/m) 2. ser-chl-py+/-qtz w/ 2cm ser halo (planar to irregular, 1-4mm, 10-25tca, 5/m) Sulfides: 8% py, 0.5% cpy, 0.03% mo	288.2	288.3	aplitic to qtz-phyric felsic dyke	Phyllic 1	m	Iron	m	8	0.6		0			
RVD17-05	L. Bickerton					292	292.3	hydrothermal brecciation/veining w/hem alt											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-05	L. Bickerton					308.5	308.68	hydrothermal brecciation/veining w/hem alt											
RVD17-05	L. Bickerton					317.6	317.84	hydrothermal brecciation/veining w/hem alt											
RVD17-05	L. Bickerton					329.54	329.84	hydrothermal brecciation/veining w/hem alt											
RVD17-05	L. Bickerton	334.3	335.3	TUF	Lithology: Lithology same as above apart from fragments which are present are coarser and sulfide rich (~5-15cm, replacement feature?). Light grey to buff beige lithic-bearing crystal-tuff breccia (diatreme). Matrix is composed dominantly of fine-grained qtz-feldpar, and fragments of sulfide-qtz. Large fragments (/vein fill?, 10cm wide) containing massive sulfide (pyr/marc>cpy) occur at ~334.47m and 335m. Alteration: Similar to alteration above, weak phyllic overprint with sericite replacing most sulfides, both in matrix and within fragments. Pyr rich fragments/fill appear adjacent to ser/phyllic veins (could be a replacement feature by phyllic fluids? Mineralization: Short interval contains two fragments (perhaps vein fill?) as noted above which are ca. 10cm wide each and contain >90% sulfide (pyr/mrcs>>cpy). These are spatially associated with ser-chl-pyr+/-qtz veinlets, similar to those seen throughout the previous interval. Veins: 1. ser-chl-py+/-qtz w/ 2cm ser halo (planar to irregular, 1-4mm, 10-25tca, 5/m) Sulfides: 12% py, 1% cpy, 0.08% mo	334.47	334.57	fragment of massive/dominant sulfide	Phyllic 1	w	Iron	w	12	1		0.1			
RVD17-05	L. Bickerton					335	335.1	fragment of massive/dominant sulfide											
RVD17-05	L. Bickerton	335.3	344.2	TUF	Lithology: Light to dark grey lithic-rich crystal-tuff breccia (diatreme). Crowded fine- to very-fine grained, sub- to euhedral qtz and fsp make up matrix through the interval (~65-70%) with sub-rounded, poorly sorted fragments (~30-35%, 2-12cm) that are composed of QFP > m.g. Granodiorite > qtz-sulfide fragments > YTT layered gneiss/wallrock. Sulfide bearing fragments, as above, are associated with QFP, milky white qtz, and dark grey qtz fragments. As the interval approaches the bottom contact (with granitoid, i.e., 339.85 – 344.2m), it becomes significantly more veined, darker and harder (silicified? Could be a chill margin in diatreme matrix?). Alteration: Weak to moderate phyllic alteration assemblage (ser-qtz-py). Sericite replaces feldspars in the matrix and the phenocrysts of some QFP fragments. Ser and clay in veins become closely packed by end of interval (10-15/m) with increased SiO2 in matrix to host diatreme. Mineralization: Sulfides (py>cpy) appear as fragments (associated with qtz and QFP) and occur locally as replacements in other fragments of vein infill. Predominantly py +/- marcasite with tr cpy and mo. Veins: 1. ser-chl-py+/-qtz (planar to irregular, 1-4mm, 10-25tca, 5/m to 15/m, locally) Sulfides: 5% py, 0.2% cpy, 0.01% mo	339.85	344.2	increased amount of veining, silicification (chilled contact of diatreme with the granite below?)	Phyllic 1	m	silica	w	5	0.2		0			
RVD17-05	L. Bickerton	344.2	350.8	DIO	Lithology: Buff-yellow to light grey medium grained granodiorite. Interval is phyllically altered and, although primary texture is preserved, primary mineralogy is difficult to determine. Rock is ~20-30% sub- to anhedral qtz, ~65% sub- to euherdral feldspar, ~5-10% euhedral mafics (biotite? now replaced by sericite-chlorite-clay). Either end of this interval has increased veining in association with the alteration/contacts (i.e., 344.2–345.07m, 347.75–350.78m) where this is higher qtz content and sulfides along with the veins. Alteration: Moderate phyllic alteration through this interval replaces most feldspar and mafic sites within the granodiorite, alteration associated with diatreme intrusion? Mineralization: Sulfides (pyr/mrcs > mo > cpy) occur in veins through this interval and, less so, as mafic replacements within the granodiorite. Veins: 1. qtz-py+/-cpy, aspy, mo, tour w/ 2 cm SiO2 halo (undulose, 1-2cm, 50tca, 2/m) Sulfides: 4% py, 0.3% cpy, 0.08% mo, 0.05% aspy	344.2	345.07	increased veining and alteration	Phyllic 1	m			4	0.3		0.1	asp	0.05	
RVD17-05	L. Bickerton					347.75	350.78	increased veining and alteration											
RVD17-05	L. Bickerton	350.8	351.8	HBX	Lithology: Short interval of qtz-py-mo+/-cpy hydrothermal breccia (phyllic HBX?). Unit is cement supported and fragments are entirely granodiorite (as oberved above and below the breccia). Open space (repetitive crack-seal?) and sulfide saturated fluid create breccia textures where cement appears as ribbon-qtz mixed with molybdenite and colliform/line textured sulfides. This bx is then cut by a Fe-carbonate/calcite cemented crackle breccia that is locally vuggy but lacking mineralization that hasn't been transported from the surrounding rock. Alteration: Moderate to strong silica alteration (cement + fragments flooded). Mineralization: Sulfides dominantly occur in the breccia cement as pyrite (+/- marcasite) with lesser cpy and fine grained molybdenite with qtz. Sulfides: 10% py, 0.8% cpy, 0.1% mo				silica	s			10	0.8		0.1			
RVD17-05	L. Bickerton	351.8	365.8	DIO	Lithology: Buff-yellow to light grey-green medium grained granodiorite to qtz-diorite. Rock is ~20% sub- to anhedral qtz, ~65% sub- to euherdral feldspar, ~15% euhedral mafics (biotite? Most replaced by chlorite). Locally there are mafic/biotite-rich rounded enlcaves within this rock, appear to not have any enhanced mineralization (earlier mafic phase of intrusion?), as is typical in other holes. Unit has consistent grain size, textures, composition through variable alteration and veining assemblages. Alteration: Patchy moderate phyllic (ser-chl-py +/-qtz) alteration overprints a moderate to strong propylitic assemblage, pervasive and veined chl +/- alb, epi, pyr, po(?). Mineralization: Sulfides are associated with replacement of mafic sited in areas of moderate to heavy alteration, as well as being introduced with veining from both observed alteration assemblages. Veins: 1. chl +/- qtz, py, po (stringer to planar- tend to cluster, <2mm, 40-45tca, 5/m to 20/m, locally) 2. qtz-mo +/- py, cpy (planar to wavy, 2-5mm, 75-80tca, 2/m) 3. chl-ser-pyr+/-qtz, cpy in halo? (stringer to planar, 1-5mm, 10-30tca, 10/m) Sulfides: 1% py, 1% po, 0.03% cpy, 0.05% mo				Phyllic 1	w	propylitic	s	1	0	1	0.1			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-05	L. Bickerton	365.8	373.1	DIO	Lithology: light grey medium grained biotite-hornblende granodiorite as seen above with less alteration masking primary features. Rock is ~20-30% sub- to anhedral qtz, ~60% sub- to euherdral feldspar, ~10-15% euhedral mafics (biotite + hornblende, both typically altered to chl). There is also accessory fine grained euhedral titanite/leucoxene visible through this interval (secondary?). Alteration: Weak to moderate propylitic alteration throughout with minor occurrances of cross-cutting phyllic assemblages (e.g., diss. qsp+/-cpy,mo and minor veins at 370.85 – 372.06m). Mineralization: Sulfides occur as disseminations/mafic replacements as well as in vein assemlbages. Most mafic sites are dominantly replaced by chlorite, although these can be mixed with, or completely replaced by sulfides (po = py > cpy > mo). Po may be primary as well as secondary? Veins: 1. chl +/- qtz, py, po (stringer to planar- tend to cluster, <2mm, 40-45tca, 5/m to 20/m, locally) 2. qtz-mo +/- py, cpy (planar to wavy, 2-5mm, 75-80tca, 2/m) 3. chl-ser-pyr+/-qtz, cpy in halo? (stringer to planar, 1-5mm, 10-30tca, 10/m) Sulfides: 0.8% py, 1.2% po, 0.06% cpy, 0.03% mo	370.85	372.06	crosscutting phyllic assemblage with qtz-py+/-cpy, mo veinlets	Phyllic 1	w	propylitic	m	0.8	0.1	1.2	0		
RVD17-05	L. Bickerton	373.1	378	DIO	Lithology: light grey medium grained biotite-hornblende granodiorite as described in previous intervals with variable alteration and a section of very low angle brittle faulting with thick qtz-sulfide vein fill (between 376.5 – 377.95m). Phyllic alteration masks some primary features of granite, but appears similar to that described above, most feldspar and mafics replaced by green-tan sericite/chlorite. Alteration: Moderate to strong phyllic (ser-chl+/-qtz) alteration throughout, overprints a weak to moderate propylitic (mostly chl). Mineralization: Sulfides are associated with veins in this interval with lesser mafic replacement (most sites are occupied by sericite anc clays. Py > cpy > mo occur in the low angle veins that are in mostly blocky angular broken rock (fault? Interval outlined above), as well as thick qtz-sulfide veins that occur in phyllically alterd zones (paragenesis difficult to tell, this alteration could be post vein...). Veins: 1. qtz-py-po-cpy+/- chl w/ SiO2 in halo (planar, 1-3cm, 75-80tca, 2/m) 2. ser-chl +/- py (stringers, <2mm, 20-30tca, 4/m) ?. qtz-cpy-mo-po (planar to wavy, 2-5cm, 5-10tca, 0.2/m) Sulfides: 1.5% py, 2%po, 0.15% cpy, 0.05% mo	376.5	377.95	thick qtz sulfide vein near parallel to core axis and brittle fault	Phyllic 1	s	propylitic	m	1.5	0.2	2	0.1		
RVD17-05	L. Bickerton	378	399.3	DIO	Lithology: Light grey medium grained biotite-hornblende granodiorite. Rock is weakly to non-magnetic unless po mineralization is present replacing mafics (or is po locally primary?). Primary textures preserved throughout with patchy alteration intensity and veining. Some intervals (e.g., 382.92 – 383.32m) are pervasvie chlorite and texture destructive. ~20cm wide dyke of graphic textured pegmatite/granophyre present at 393.36m. Alteration: Moderate to weak propylitic alteration (mainly chl+/-py, po, alb) throughout the interval with patchy but strong phyllic assemblages surrounding some veins. Sporadically there are thick (~1cm) mineralized qtz veins, but these have very little to no halo, and difficult to assign them to a zone of alteration. Hole was shut down due to having reach propylitic alt'n in granitoid footwall to diatreme (despite being somewhat mineralized). Mineralization: Sulfides present in thick qtz veins as well as miner dissemination/mafic replacements. Veins: 1. chl-py-po +/- cpy w/ small 1-2cm alb halo locally (stringer to anastamosing, <2mm, 20tca, 10/m) 2. qtz-py-po-cpy +/- mo (planar to wavy, 1-2cm, 15-35tca, 0.5/m) 3. qtz-ser-py +/- chl, cpy (stringer to planar, <2mm, 15-20tca, 3/m) 3. Fe-Carb +/- cal (stringer to planar, 5mm, 15tca, 4/m) Sulfides: 0.8% py, 1%po, 0.1% cpy, 0.02% mo	382.92	383.32	pervasive, texture destructive chl alteration	Phyllic 1	w	propylitic	m	0.8	0.1	1	0		
RVD17-05	L. Bickerton					393.36	393.56	graphic textured pegmatite/granophyre											
RVD17-06	D. LeFort	0	10.36	GRA	Granite-Granodiorite: White to grey blue fine grained altered granite-granodiorite. Abundant 10-35% biotite, altered to Chl, crystals are <1mm. Mineralization: Rare disseminated sulfides (py?) difficult to see with handlens. Altered Qtz-Sulfide stringers, ~1-2mm wide, sulfides are altered out (vuggy, boxwork texture). Stringers are low angle (~15 deg tca) and have irregular, off shoots (apophysis). Core is broken, Fe-staining common along fractures and joints. Alteration: Texture destroying alteration occurring throughout, most prevalent along fractures. Remnant texture can be observed in between halos of alteration around fractured sections.				iron	m			0					
RVD17-06	D. LeFort					8.75	10.36	Moderate to intense alteration and weathering. Abundant low angle altered stringers with little remnant texture remaining.	iron	m									
RVD17-06	D. LeFort	10.36	74.4	GRA	Granite-Granodiorite: Medium-grained, biotite granite with minor Hbl, zoned feldspar megacrysts and mafic enclaves. Crystals of Qtz and feldspars are usually anhedral to subhedral but euhedral sections are present. Megacryst are often zoned and host mafic (biotite, Hbl) chadacrysts. Mineralization: Qtz-Cpy-Po+-Mo stringers, <1mm usually low angle (15-30 deg tca). Sulfides in these stringers are small (<1mm), irregular shaped, sometimes polymineralic blebs. Qtz-Po veinlets are irregular, often discontinuous. Up to 5mm wide, Po often occurs as lenses. Angular clots of Po are present but uncommon, up to 2cm long and associated with discontinuous veinlets. Alteration: Weak phyllic alteration, some feldspars altering to a greenish clay-mica. Weak propylitic alteration throughout. Chl-Ep+-Po stringer-veinlets in various orientations, typically shallow (15-40 deg tca), some show pinkening of feldspars as halos. Stringer-veinlets are irregular, often sheeted. Ep alteration of some feldspar crystals and megacrysts is observed. White feldspar halos are sometimes found around Chl-Ep veinlets. Weak potassic alteration present with clustered biotite (+K-spar?) in very localized sections. Wispy veins of biotite(-chl?) with purplish hue present. Fe staining along fractures is common. Sulfides is stringers are often altered, leaving a rusty, boxwork texture. Veining: Clusters of wispy1-3mm Chl-Ep+/-Po+/-Py stringer veinlets, both low (15 deg tca) and high (40-65 deg tca) angled. Stringer-veinlets are wispy, anastomosing and can occur in sheets. Structures: No major structures observed.				Phyllic	w	Potassic	w	0.5	0.5	0.5			
RVD17-06	D. LeFort						19.81	Sheeted Chl-Ep-Po stringers (40 deg tca) cut by Chl-Ep irregular, shallow (5-10 deg tca) veinlet											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort						21.15	8cm dark (Chl rich?) rounded pod with blebs of Po and Py (Mrc?) cut by altered (hematized?) sulfide stringer											
RVD17-06	D. LeFort						26.2	Clots of Po up to 2cmm long, blocky, angular to irregular interstitial texture, may be discontinuous, irregular veinlet. Po clot cut by Qtz stringer. Brownish, K-spar (?) locally clustered, surrounding feldspar megacrysts with Po chadacrysts. Megacrysts are cut by Chl-Po stringer.												
RVD17-06	D. LeFort						28.56	2cm Po clot, irregular, may be smeared, low angle vein. Surrounding core is fractured with moderate Fe-staining along fractures. Appears to be clusters of biotite alteration as well.											
RVD17-06	D. LeFort						30.48	Cluster of Chl-Ep stringers, wispy, anastomosing with white feldspar halos											
RVD17-06	D. LeFort					32.2	32.7	Chl-Ep stringers, Ep replacing some crystals adjacent to stringers. Wispy, anastomosing. altered (hematized) sulfide stringers, and Qtz-Py+/-Cpy stringers. Low angle Qtz-Po veinlets present over interval.	iron	W	Propylitic	W							
RVD17-06	D. LeFort					43	43.3	Biotite alteration. Clusters of dark biotite crystals 1-5mm											
RVD17-06	D. LeFort						45.6	Qtz-Po-Cpy stringer											
RVD17-06	D. LeFort						49.67	qtz-Po-Cpy veinlet, Po-Cpy are irregular polymineralic blebs in Qtz veinlet											
RVD17-06	D. LeFort						50.2	Two dark, 2cm squares (chl altered Megacrysts?) with white halos (plag?)											
RVD17-06	D. LeFort						50.48	Qtz-Po-Cpy stringer cutting wispy Chl-Bio stringers											
RVD17-06	D. LeFort					52.92	53.15	Fine-grained (aplite?) Granite-Granodiorite with little biotite. Interval is fractured with Fe staining along fractures.											
RVD17-06	D. LeFort						53.5	Qtz-Po veinlet cutting wispy clusters of Chl-Bio stringers											
RVD17-06	D. LeFort						62	Qtz-Po+/-Cpy? Veinlet with chl-ep? Selvages? Low angle 5 deg tca.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort						63.2	Qtz-Carb-Cpy-Po-Mo veinlet, smeared Cpy-Po-Mo, polymineralic											
RVD17-06	D. LeFort					65.9	74.4	Characterized by common Chl-Ep+-Py+-Po shallow dipping stringers and veinlets (5 to 10 deg tca), common to have Ep selvages. Carb stringers are common. A vein with white and grey carbonates (+Py), has abundant Carb+-Py perpendicular offshoots and phyllic altered halos (green mica-clay)											
RVD17-06	D. LeFort					71.63	74.4	Shallow dipping sheeted Chl-Ep veinlets, anastomosing, Ep replacing crystals adjacent to veinlets. Carb stringer cutting Chl stringer.											
RVD17-06	D. LeFort	74.4	90.15	GRA	Phyllically altered Granite-Granodiorite: Moderately to strongly phyllic altered Granite-Granodiorite. Qtz crystals remain most feldspars are altered to white, tan-brown and greenish mica-clay minerals. Sulfide stringers are altered to rusty red (hematite). Some Po-Py mineralization is preserved. Carbonate veins are present throughout, increasing towards the bottom of the unit. Local minor potassic alteration.				iron	m	Phyllic	M	0.1	0.1	0.1				
RVD17-06	D. LeFort						75.15	Dolomite-Py veinlet, 5mm, shallow dipping 20 deg tca											
RVD17-06	D. LeFort					76	76.2	Carb stringers-veinlets, wispy-anastomosing cutting qtz vein/aplite dyklet											
RVD17-06	D. LeFort					76.58	78.55	Strongly altered Granite-Granodiorite. Both phyllic alteration and Fe-staining. Veins-veinlets are altered to rusty red-brown hematite and Fe-rich clay minerals. Fe-straining on fractures and forming halos.	iron	S	Phyllic	S							
RVD17-06	D. LeFort					78.25	78.55	Intensely Fe altered interval. Brown-rusty red clays replace feldspars, Qtz crystals remaining, has consistency of fault gouge.	iron	I									
RVD17-06	D. LeFort					79.5	82.7	Fe-staining along fractures/veinlets, irregular and discontinuous, moderate phyllic alteration.	iron	W									
RVD17-06	D. LeFort						87.2	Cal vein 1.5cm, vuggy, Fe-altered selvages, hosts ang clasts of altered Granite-Granodiorite-Granodiorite (<1cm)											
RVD17-06	D. LeFort						88.1	Cal vein 1.5cm, vuggy, Fe-altered selvages, associated with carb stringers. Wispy Biotite stringers, discontinuous and irregular.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort						88.8	Pod of biotite alteration cut by Qtz veinlet (1cmm) with minor Po (small blebs hosted in Qtz veinlet)	Phyllic	W	Potassic	W							
RVD17-06	D. LeFort	90.15	127.9	GRA	Granite-Granodiorite: Medium-grained, biotite Granite-Granodiorite with minor Hbl, zoned feldspar megacrysts and mafic enclaves. Crystals of Qtz and feldspars are usually anhedral to subhedral but euhedral sections are present. Megacrysts are often zoned and host mafic (biotite, Hbl) chadacrysts, and in some cases host sulfides. Mineralization: Qtz+-Carb+-Cpy+-Po+-Mo+-Py stringers-veinlets, usually ~1mm (up to 5mm). Qtz crystals in veinlets can show euhedral growth from vein wall with interstitial Carb-Po-Cpy-Mo-Py usually low angle (15-30 deg tca) but can be up to 45 deg tca. Sulfides in these stringers are small (~1mm), irregularly shaped, sometimes polymineralic blebs or form around crystals (interstitial). Decreasing Cpy content with depth. Qtz-Po and Qtz-Py veinlets are present throughout with Po decreasing and Py increasing with depth. The veinlets have varying character from planar to often diffuse, irregular, and discontinuous. Up to 5mm wide, Po often occurs as lenses. Py-Chl stringers are present throughout. Alteration: Weak phyllic alteration (locally moderate), some feldspars altering to a greenish clay-mica. Weak propylitic alteration throughout. Chl-Ep+-Po stringer-veinlets in various orientations, typically shallow (15-40 deg tca). Stringer-veinlets are irregular, often sheeted. White feldspar halos are sometimes found around Chl-Ep veinlets. Weak potassic alteration present with clustered biotite (+K-spar?) in very localized sections. Fe staining along fractures is still present but less common. Sulfide stringers are often altered, leaving a rusty red alteration mineral (Hem), often with a rusty red halo. Veining: Low angle Chl-Ep veinlets present. High angle Chl sheeted stringers.				Phyllic	W	Propylitic	W	2	1	1.5	0.5			
RVD17-06	D. LeFort						90.62	Qtz-Carb-Cpy-Po stringer, ~1mm, 45 deg tca											
RVD17-06	D. LeFort					90.6	91	Biotite alteration. Clusters of dark biotite crystals 1-5mm											
RVD17-06	D. LeFort						94.1	Qtz-Py-Cpy-Po stringer, ~1mm, 30 deg tca											
RVD17-06	D. LeFort						95	Qtz-Carb-Cpy-Po-Mo veinlet, low angle (15 deg tca) smeared Cpy-Po-MO, irregular, amoeba-like, elongated, sometimes polymineralic blebs. Small ~1mm rounded bleb of Arsenopyrite with Mo											
RVD17-06	D. LeFort						95.25	Qtz-Carb-Cpy-Po-Mo veinlet, low angle (15 deg tca) smeared Cpy-Po-Mo, polymineralic											
RVD17-06	D. LeFort						95.86	Py spherules/framboids along fracture (<1mm)											
RVD17-06	D. LeFort					96	98.5	Low angle Qtz-Carb-Cpy-Po Veinlet (5 deg tca, 1cm thick) cutting Qtz-Bio-Chl veinlets which are offset.											
RVD17-06	D. LeFort						99.2	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort						99.5	Qtz-Cpy-Po-Mo veinlet, irregular 5mm wide with Mo selvages.											
RVD17-06	D. LeFort						100.63	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort						102.5	Qtz-Carb veinlet 1cm 20 deg tca with white feldspar halo											
RVD17-06	D. LeFort						103.63	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort						103.85	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort						105.68	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort					108.1	113.99	Interval shows moderate phyllic alteration											
RVD17-06	D. LeFort						108.3	Qtz-Cpy-Po stringer											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort					109.5	112.4	Common Qtz-Carb-Po+-Cpy+-Mo veinlets throughout interval. 1Cm Qtz-Carb-Cpy-Po-Mo veinlet sheeted with smaller stringers of Qtz-Carb-Po-Mo and Carb stringers @110. Qtz-Po stringers most common.											
RVD17-06	D. LeFort						113.99	Reduced from HTW to NTW											
RVD17-06	D. LeFort						117	Qtz-Py stringer, elongated Py bleb altered to Hem (vuggy)											
RVD17-06	D. LeFort					117.3	117.5	Sheeted Chl stringers 60 deg tca, anastomosing											
RVD17-06	D. LeFort					118	127.92	One 1mm Qtz-Carb-Cpy-Po stringer observed ~126.0m, Qtz+-Po+-Py stringers present, Common Chl stringers.											
RVD17-06	D. LeFort	127.9	136.3	GRA	Phyllically altered Granite-Granodiorite: Moderately to strongly phyllic altered Granite-Granodiorite. Feldspars are altered to white, yellow-green mica-clays. Mineralization: Qtz-Carb-Cpy-Po veinlet present at the upper contact. Veining: Ep-Chl veinlets, low angle irregular. Qtz-Py stringers low angle (15 deg tca) rare. Structures: Zone is also characterized by shear and fault/breccia zones. Faulted and brecciated intervals are strongly altered.				Phyllic	m			0.5	0.5	0.5				
RVD17-06	D. LeFort						128.02	Qtz-Carb-Cpy-Po veinlet (5mm) 40 deg tca, polymineral Cpy-Po, sulfides show interstitial texture.											
RVD17-06	D. LeFort					129.8	130.75	Shear zone, dark wispy foliations (chl) with milled Qtz crystals. Foliations are 45 deg tca. Dark Chl stringers are clustered, wispy, anastomosing.											
RVD17-06	D. LeFort					131.06	131.34	Fault zone, Fault gouge and healed breccia. Crumbly greenish carb-clays with angular clasts of altered Granite-Granodiorite. Healed breccia angular mm to cm sized clasts of altered Granite-Granodiorite. White carb (Calcite) infilling.											
RVD17-06	D. LeFort					131.58	132.32	Breccia zone characterized by low angle banded dolomite veins which host small mm angular clasts of altered Granite-Granodiorite and rounded mm clasts of Qtz veins. Dolomite veins are irregular and anastomosing. Chl veinlets are present, shallow orientation wavy, irregular. Feldspars altered to tan-brown in breccia zone.											
RVD17-06	D. LeFort						135.5	Altered megacrysts, 2-3cm, square rectangular, altered to a dark grey-green mineral											

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RVD17-06	D. LeFort						136.02	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort	136.3	154.3	GRA	Granite-Granodiorite: Medium-grained, biotite Granite-Granodiorite with minor Hbl. Megacrysts of feldspars. Crystals of Qtz and feldspars are usually anhedral to subhedral but euhedral sections are present. Overall rock looks white may have low K-spar content (K-spar sample). Mafic enclaves are rare, rounded 3cm to 15cm. Mineralization: Rare occurrences of Cpy associated with Py, found on broken ends of core. Qtz-Po stringers present but rare (mm sized). Py-Chl stringers common, Py often found by looking down core axis. Qtz Py stringers are often diffuse. Alteration: Chl-Ep stringers-veinlets throughout, parallel to 60 deg tca. Wispy, wavy, irregular. Ep grains replace some feldspar crystals, usually adjacent to Chl-Ep veinlets. Weak phyllic alteration in localized patches. Veining: Sheeted Chl veins are common near the upper contact and occur sporadically throughout the unit. Structures: No major structures observed in this unit.				Phyllic	W	Propylitic	W	0.1	0.1					
RVD17-06	D. LeFort					136.32	137.16	Sheeted Chl stringers 0-60 deg tca, anastomosing, wispy up to 1cm thick.											
RVD17-06	D. LeFort						158.55	Cpy-Py stringer broken along fracture.											
RVD17-06	D. LeFort	154.3	223.7	GRA	Moderate to strongly Phyllic altered Granite-Granodiorite: Feldspars are commonly altered to white, yellow, green mica-clays (very soft). Qtz crystals remain, some megacrystic texture is preserved. Mineralization: Qtz+-Carb+-Cpy+-Po+-Py stringers-veinlets are present. Cpy-Po commonly forming polymineralic crystals, irregular shapes. Mo occurs in selvages of Qtz-Py veins. Carb-Py stringers present. Po observed occurring along rim of megacryst. They are ~1mm thick and usually low angle (30 deg tca) and appear to be sheeted. Py-Chl stringers are present, usually low angle but can occur in various orientations and cut each other. They are wavy, anastomosing, sometimes discontinuous. Veining: Barren Carb stringers cut Py-Chl stringers. Carb (calcite and dolomite) veinlets are present throughout and often associated with brecciated zones. Chl-Ep stringers are present, usually low angle (30 deg tca), anastomosing with offshoots parallel tca. Chl-Ep veinlets are present, high angle 70 deg tca, up to 1 cm thick. Granophyre veins are present. Alteration: Moderate-strong phyllic alteration present throughout. Core is often very soft. Mafic minerals (biotite and Hbl) are often locally altered to purplish brown clay. Structures: Several breccia and shear vein zones.				Phyllic	m			1.5	1	1.5	0.1			
RVD17-06	D. LeFort					154.91	155.08	Breccia zone characterized by 45 deg tca foliations which are wavy, dark clay stringers and angular mm to cm clasts of altered Granite-Granodiorite. Core is broken along fractures.											
RVD17-06	D. LeFort						159	Qtz-Cpy-Py stringer, 1mm 30 deg tca											
RVD17-06	D. LeFort						160.11	Chl-Ep veinlet, with two parallel tca offshoots											
RVD17-06	D. LeFort						160.25	Granophyre, 3cm wide.											
RVD17-06	D. LeFort						160.78	Qtz-Carb-Cpy-Py stringer, 1mm 30 deg tca											
RVD17-06	D. LeFort						162.48	Qtz-Py-Mo-Chl veinlet, ~1cm thick, Mo in the selvages, Cpy as diss ~1mm blebs parallel to the veinlet. Wispy clusters of Chl stringers present in portions of the veinlet, usually in the selvages but can be present in the center of the veinlet.											
RVD17-06	D. LeFort						162.64	High angle Py stringers, 1-2mm thick (75-80 deg tca)											
RVD17-06	D. LeFort						165.02	Qtz-Cpy-Po-Py veinlets 30 50 deg tca, 2-3mm thick, Cpy-Po alloyed, irregular, interstitial texture.											
RVD17-06	D. LeFort						166.2	Qtz-Cpy-Po stringer											
RVD17-06	D. LeFort						166.4	Po occurring along rim of megacryst											

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RVD17-06	D. LeFort					171.48	171.56	Structure: Healed breccia mm sized rounded-angular clasts of dark grey qtz (sometimes banded, and cm sized ang clasts of dark grey (banded) Qtz. Chert/Chalcedony appeared to have infilled first, then a later stage Dolomite infilled. Dolomite veins are banded. Minor fault gauge along margins											
RVD17-06	D. LeFort					171.97	172.25	Structure: Healed breccia. Several generations of brecciation-healing observed. Early dark qtz veins, brecciated and infilled by banded Dol veining, which were brecciated by second generation of dol veining. Mm to cm sized rounded-angular clasts of dark grey qtz (sometimes banded), altered Granite-Granodiorite, and banded Dol veins are infilled by pinkish Dol veins.											
RVD17-06	D. LeFort					173.7	174.2	Structure: Shear zone-vein. A shallow angle (10 deg tca), white calcite, vuggy, druzy vein hosts, angular, blocky clasts of banded qtz-chl(?) veins (early stage). The Cal vein is anastomosing in some parts. Common wispy Chl stringers are adjacent to the vein, oriented sub parallel to the vein.											
RVD17-06	D. LeFort						176.9	UST-granophyre: A 4 cm thick UST granophyre, with blocky cm sized Feld-Qtz crystals, some showing graphic texture are present. The Felds crystals show some alteration to green mica-clay (sericite)											
RVD17-06	D. LeFort						183.44	Qtz-Carb-Cpy-Po veinlet (5mm) 35 deg tca, polymineral Cpy-Po, sulfides show interstitial texture.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort					183.4	183.7	Structure: Healed breccia-veining. Upper and lower margins are characterized by Qtz-Carb-Cpy-Po veinlets. 3Cm of fault gouge near upper contact, grey clay infill, rubbly clasts of host rock.											
RVD17-06	D. LeFort						189.45	Qtz-Carb-Cpy-Po stringer, ~2mm, 30 deg tca											
RVD17-06	D. LeFort						192.02	Qtz-Carb-Cpy-Po stringer, ~2mm, 80 deg tca											
RVD17-06	D. LeFort					192.5	193.05	Structure: Shallow dipping vein (5-10 deg tca), 3cm thick, grey green carb-clay infill, mm subrounded to angular clasts of hostrock. Fault gouge at lower margin. Grey Qtz veinlets throughout, irregular, discontinuous.											
RVD17-06	D. LeFort					193.95	194.65	Structure: Shallow dipping carb vein (parallel-10 deg tca), 1cm thick, wavy and irregular, diffuse margins with minor fault gouge near the upper margin, smeared Py at the base of the interval.											
RVD17-06	D. LeFort						195	Clusters of Carb stringers, mostly 30 deg tca but varying orientation, wispy and anastomosing.											
RVD17-06	D. LeFort					203.62	204.1	Structure: Chl-Py and Carb-clay veins, shallow dipping (5 deg tca), foliation, fault gouge along upper margin, dark green clay.											
RVD17-06	D. LeFort					205.14	205.6	Structure: Breccia, Carb vein infilling mm subrounded to angular and cm angular clasts of hostrock. Fault gouge with grey-green clay infill. Shallow to parallel with core axis.											
RVD17-06	D. LeFort						208.46	Trace Cpy associated with Py, visible along fractured core (looking down core axis)											
RVD17-06	D. LeFort						211.33	Trace Cpy associated with Py, visible along fractured core (looking down core axis)											
RVD17-06	D. LeFort						212.68	Barren Qtz vein 2cm, 60 deg tca, carb stringer along lower margin											

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RVD17-06	D. LeFort					218.5	223.66	Strong Phyllic alteration, feldspars altered to green mica-clay minerals, Carb veinlets 1-2cm thick 45 deg tca, not much mineralization observed in this interval.	Phyllic	S									
RVD17-06	D. LeFort						219.94	Qtz-Py stringer, with dolomite (pink carbonate) selvages, 2cm thick in total, 45 deg tca											
RVD17-06	D. LeFort	223.7	235	GRA	Fault and Hydrothermal Breccia zone: Phyllically altered Granite-Granodiorite with fault and hydrothermal breccia zones. Mineralization/Alteration/Veining: Qtz-Carb-Cpy stringer present, smeared Cpy due to low angle tca. Qtz-Py-Ars (?) vein present. Strong phyllic alteration in non brecciated-faulted zones. Low angle Qtz-Carb veins throughout, irregular, wavy discontinuous. Localized Chl-rich patches. Mafic enclaves altered to light grey-green clay minerals. Rusty-red clay along fractures. Qtz-Py stringers throughout, ~1mm usually low angle (30 deg tca). Py-Chl stringers common, sometimes have been altered to rusty red mineral (hem). Structures: Breccia and faults zones present throughout, see structure and subliths.										1	0.1			asp		0.05
RVD17-06	D. LeFort					223.66	225.12	Structure: Breccia and fault zone. Zone characterized by mm to cm, subrounded to angular clasts of altered Granite-Granodiorite. Carb-clay infilling and healing parts of breccia. Fault gouge present in some brecciated zones, grey carb-clay with mm clasts of altered Granite-Granodiorite. Qtz-+Chl+-Py+-Cpy+-Ars(?) are present throughout. They are mostly irregular, discontinuous, Qtz-Chl-Py veins truncated by brecciated zones and fractured and infilled with carb veins. Py occurs as clusters of <1mm crystals hosted in Dark Qtz (diss Py or Chl).													
RVD17-06	D. LeFort						223.72	Qtz-Py-Ars (?) vein. 2cm thick milky white Qtz vein with mm sized irregular blebs of silverish, reflective mineral with drill striations. Vein surrounded by dark grey Qtz (diss chl?) and blebs of Py.											
RVD17-06	D. LeFort						224.72	Smeared Cpy-Qtz-Carb stringer. Cpy Shows interstitial texture. Low angle (20 deg tca)											
RVD17-06	D. LeFort						226.8	8cm patch of dark green chl, angular-amorphous character, generally 45 deg tca											

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RVD17-06	D. LeFort					228.45	229.02	Structure: Hydrothermal breccia. Dark green-black matrix with white-grey Qtz-Feld, mm to cm rounded to subangular crystals, matrix supported. Commonly cut by carb stringers, wispy, varying orientation											
RVD17-06	D. LeFort					229.63	229.8	Structure: Hydrothermal breccia. Dark green-black matrix with white-grey Qtz-Feld, mm to cm rounded to subangular crystals, matrix supported.											
RVD17-06	D. LeFort					231.26	234.97	Zone characterized by abundant Chl veinlets, usually low angle 0-30 deg tca, but are chaotic. Wispy, anastomosing, apophysis. Cut by Qtz veins, <1cm 40-45 deg tca. Low angle carb veinlets present, 30 deg tca.											
RVD17-06	D. LeFort	235	367.3	GRA	Phyllically altered Granite-Granodiorite: Moderately phyllic altered Granite-Granodiorite, shows zones of Propylitic and Potassic alteration. Megacrystic. Mafic enclaves sometimes altered to brown-tan clasts Feldspars commonly altered to green Mica-clay. Mafic minerals altered to brown-tan clays. Mineralization: Qtz-Carb-Cpy-Po-Mo-Sph stringers-veinlets present. A Qtz-Carb-Cpy-Py-Sph (?) contains cm clots of Cpy, Py and Sph crystals. Po occurs as blebs hosted in mafic enclaves. Chl-Py-Po stringers common throughout but concentrated in certain intervals. Disseminated Po associated with mafic enclaves. Veining: Common Chl stringers throughout, locally abundant. Minor local occurrences of Ep-Chl stringers-veinlets, Ep replacement of some crystals. Carb stringers throughout, wispy, irregular, anastomosing. Varying orientation. Granophyre veins present. Alteration: Zones of potassic alteration, brownish biotite with abundant dark Chl-Bio stringers. Clay infilling along some fractures, clay is soft, grey-green. Weak patches of propylitic alteration in the form of Ep mineralization. Moderate phyllic alteration observed throughout. Local silicified intervals, overprinting phyllic alteration.				Phyllic	m	Potassic	W	1.5	1	1.5	0.5	Sph	0.05
RVD17-06	D. LeFort						236.05	Partially altered mafic enclave, brown-tan clays											
RVD17-06	D. LeFort						236.25	1cm Carb vein with Py-Chl selvages, wispy diffuse margins.											
RVD17-06	D. LeFort						236.45	Offset sheeted Chl stringers, cut by perpendicular carb and clay stringers.											
RVD17-06	D. LeFort						239.57	Qtz-Carb-Po veinlet, 3mm, 30 deg tca.											
RVD17-06	D. LeFort						240.6	Chl-Ep veinlet, 30 deg tca 1.5cm wispy margins											
RVD17-06	D. LeFort						240.94	Chl-Py stringer cutting Chl-Ep veinlet.											
RVD17-06	D. LeFort						241.3	Pinkening of feldspars around a Qtz-Cpy-Py stringer, 30 deg tca											
RVD17-06	D. LeFort						242.65	2mm blocky Po crystal hosted in Mafic enclave											
RVD17-06	D. LeFort						243.05	Cpy-Py stringer, 40 deg tca											
RVD17-06	D. LeFort						243.85	1cm Qtz-Mo-Cpy veinlet, 35 deg tca											
RVD17-06	D. LeFort					244.06	244.71	Abundant Chl stringers, veinlets, 30-65 deg tca. Chl-Py stringers present throughout.											
RVD17-06	D. LeFort					244.95	245	Structure: Fault gouge, grey-clay carb infill, mm ang clasts of altered Granite-Granodiorite.											

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RVD17-06	D. LeFort						245.05	2 Qtz+-Po veinlets, 1cm an 0.5cm thick, 30 deg tca											
RVD17-06	D. LeFort						246.62	Qtz-Carb-Cpy-Py-Sph veinlet, 1.5cm thick. Clots of Cpy, Py, and Sph (?). Up to ~1cm wide. Shallow angle (20 deg tca), section of core broken, pieces don't quite fit together, pieces missing?											
RVD17-06	D. LeFort					248.2	254.47	Zones with weak to moderate potassic alteration. Secondary biotite (?). Locally clustered Bio-Chl stringers. Qtz-Py stringers present throughout, cut across altered zones. Qtz pod @252.05m. Clusters of Chl-Bio stringers (sheeted) associated with Po (disseminated, irregular blebs, <1mm).			Potassic	W							
RVD17-06	D. LeFort						248.95	Qtz-Cpy-Py-Po stringer, 1mm, 35 deg tca											
RVD17-06	D. LeFort						252.39	Carb stringer with halo, 65 deg tca, white halo											
RVD17-06	D. LeFort						255.73	Clusters of Chl-Bio stringers, with diss (?) Po, irregular, <1mm crystals.											
RVD17-06	D. LeFort					256.03	273.02	Abundant Chl stringers, veinlets, 30-65 deg tca. Commonly cluster to make spiderweb, dendritic textures. Chl-Py stringers present throughout. 10-25cm mafic enclaves, commonly host Po, Blebs. Minor patches of moderate-strong phyllic alteration, feldspars altered to green mica-clays (~267m). Carb stringers throughout usually low angle 30 deg tca, wispy. Py-Chl stringers throughout, sometimes Py forms spherules on fracture core ends.	Phyllic	m								
RVD17-06	D. LeFort						263.16	Po blebs rounded-subangular, hosted in mafic enclave.											
RVD17-06	D. LeFort						264	Qtz-Cpy-Py Stringer, 1mm 30 deg tca, cut by Qtz-Po, 1mm 45 deg tca											
RVD17-06	D. LeFort						264.7	3cm thick Qtz vein (30 deg tca), cut by Chl and Carb stringers											
RVD17-06	D. LeFort						266.1	Qtz-Cpy-Py Stringer, 1mm 30 deg tca											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort						268.88	Cpy-Py stringer broken along fracture.											
RVD17-06	D. LeFort						271.05	Qtz-Cpy-Po stringer, wispy irregular, parallel tca											
RVD17-06	D. LeFort						272.22	Po wisps with Chl stringers, tr Cpy (?)											
RVD17-06	D. LeFort						272.85	Po blebs rounded-subangular, hosted in mafic enclave.											
RVD17-06	D. LeFort					273.02	275.28	Strong Phyllic alteration, feldspars altered to white yellow mica-clay minerals, Carb veinlets ~1cm thick 30-45 deg tca, not much mineralization observed in this interval.	Phyllic	S									
RVD17-06	D. LeFort						273.3	Dark Qtz veinlet (~1cm), 40 deg tca cut by perpendicular, anastomosing, banded Carb (Dol) stringer											
RVD17-06	D. LeFort					273.75	273.91	Structure: Fault gouge, crumbly mm clasts of altered Granite-Granodiorite with white-yellow clay, 40 deg tca.											
RVD17-06	D. LeFort						275.66	Qtz-Cpy-Py Stringer, <1mm 35 deg tca											
RVD17-06	D. LeFort					276	283.5	Common Qtz-Po stringers over this interval, <1mm thick 30-60 deg tca, sometimes diffuse, Po looks smeared on some low angle stringers											
RVD17-06	D. LeFort						281.25	Qtz-Carb-Cpy-Po stringer, ~1mm, 40 deg tca											
RVD17-06	D. LeFort					283.5	284	Potassic alteration, clusters of brown secondary biotite. Altered sections are cut by Qtz veinlets with Chl selvages			Potassic	W							
RVD17-06	D. LeFort						285.1	Qtz-Carb-Cpy-Py lens, 2.5cm, elongated with core axis											
RVD17-06	D. LeFort						287.9	2cm granophyre vein, 45 deg tca, cut by Py stringer											
RVD17-06	D. LeFort					290.16	290.3	Clustered Chl stringers, with Po, wispy anastomosing irregular											
RVD17-06	D. LeFort					290.78	291.01	Biotite alteration. Clusters of dark biotite crystals 1-5mm			Potassic	W							
RVD17-06	D. LeFort					291.39	291.6	Biotite alteration. Clusters of dark biotite crystals 1-5mm			Potassic	W							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-06	D. LeFort					293.5	298.9	Chl-Bio-Qtz-Po-Py veinlets, low angle (parallel to 45 deg tca. Smeared Po looks disseminated, some tr Cpy @298.75. Veinlets can occur in clusters and irregular, anastomosing.											
RVD17-06	D. LeFort						300.62	Qtz-Carb Veinlet 1cm 55 deg tca, with K-spar selvages (?) cut by Chl-Py veinlet											
RVD17-06	D. LeFort					301.5	302.05	Biotite crystals, black, 1-5 mm, with white (feld) rims			Potassic	W							
RVD17-06	D. LeFort						302.62	Biotite alteration. Clusters of dark biotite crystals 1-2mm, with diss Po and Py			Potassic	W							
RVD17-06	D. LeFort						303.2	Qtz-Carb-Py veinlet (4mm_, 45 deg tca cutting, Chl-Po veinlet with wispy margins.											
RVD17-06	D. LeFort						303.6	Qtz-Carb-Cpy-Mo veinlet 1cm 45 deg tca. Mo along margins, sometimes as blebs. Part of Qtz is stringy with green clay, looks like qtz fibres											
RVD17-06	D. LeFort						303.89	Qtz-Carb-Cpy-Po stringer, ~1mm, 40 deg tca, Qtz-Po stinger, <1mm 40 deg tca											
RVD17-06	D. LeFort						306.65	Qtz-Carb-Cpy-Py stringer <1mm, 30 deg tca, Carb veinlet, 1-8 mm wide, wispy anastomosing											
RVD17-06	D. LeFort						307.7	Patches of Po-Chl, 1cm clusters of <1mm crystals											
RVD17-06	D. LeFort						308.1	Biotite alteration. Clusters of dark biotite crystals 1-2mm, with diss Po and Py			Potassic	W							
RVD17-06	D. LeFort					309.7	310	a dozen ~mm crystals of Chl, and diss Po											
RVD17-06	D. LeFort					310.41	310.65	Clusters of Qtz-Chl-Po veinlets, ~40 deg tca, wispy sometimes discontinuous											
RVD17-06	D. LeFort						311.02	Qtz-Carb-Cpy-Po veinlet, 30 deg tca, 3mm											
RVD17-06	D. LeFort						312	Qtz-Chl-Po stringer, 25deg tca											
RVD17-06	D. LeFort						312.84	Qtz-Carb-Po veinlet, 3mm parallel tca, discontinuous											
RVD17-06	D. LeFort					314.07	314.59	4 Qtz+-Carb+-Cpy+-Po+-Py veinlets, 2-3mm, 20-30 deg tca											

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RVD17-06	D. LeFort						315	1cm Qtz-Mo-Cpy veinlet, 35 deg tca, along upper contact is a brecciated 1.5 cm Qtz vein with clasts of dolomite (elongated, blocky), with a Dol veinlet along outer margin, vuggs in isolated Dol pod											
RVD17-06	D. LeFort					315	315.84	Strong Phyllic alteration, feldspars altered to white, grey-green mica-clay minerals, Qtz and Carb stringers throughout	Phyllic	S									
RVD17-06	D. LeFort						316.49	Qtz-Carb-Cpy-Po stringer, ~1mm, 30 deg tca											
RVD17-06	D. LeFort						316.89	Biotite alteration. Clusters of purple-brown biotite crystals 1-2mm, cut by Carb stringers			Potassic	W							
RVD17-06	D. LeFort						321.9	Qtz-Carb-Cpy-Po Veinlet (3mm), 10 deg tca											
RVD17-06	D. LeFort						322.31	Carb-Po-Py stringer cutting Qtz-Carb-Po, 2mm, 25 deg tca											
RVD17-06	D. LeFort						322.82	Qtz-Carb-Cpy-Po Veinlet (5mm), 30 deg tca											
RVD17-06	D. LeFort					329.24	330.1	Siliceous overprint of phyllically altered Granite Granodiorite, texture destroying, high angle Qtz veinlets (50-60 deg tca), up to 2cm thick	Silicic	W	Phyllic	M							
RVD17-06	D. LeFort					332.22	333.61	Abundant Chl (minor Ep) stringers-veinlets and diss Py throughout. Chl-Ep are wispy, anastomosing, ~30-40 deg tca)											
RVD17-06	D. LeFort						333.73	Irregular, interstitial Cpy-Po blebs											
RVD17-06	D. LeFort						334.73	Carb veinlet with wispy Chl-Mo along margins, total~1cm thick, 25 deg tca											
RVD17-06	D. LeFort					338.68	345.95	Strong phyllic alteration with zones of carbonate alteration throughout. Unit is characterized by phyllic alteration of feldspar altered to green mica-clays, with carb and Qtz veins throughout. Carbonate alteration zones characterized by abundant crisscrossing white-pink stringers and veinlets, chaotic appearance. Not much mineralization observed in this interval.	Phyllic	S									

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RVD17-06	D. LeFort					345.03	345.95	Structure: Breccia and fault zone. Zone characterized by mm to cm, subrounded to angular clasts of altered Granite-Granodiorite and grey Qtz veins. White-Pink Carb and light clay infilling and healing parts of breccia.											
RVD17-06	D. LeFort					345.95	347.44	Fault zone-fault gouge, interval is high fractured and crumbled, angular clasts of altered Granite-Granodiorite with medium grey green clay.											
RVD17-06	D. LeFort					348.33	351.4	Moderate to strong phyllic alteration, 2 cloudy grey Qtz veins, 30 to 40 deg tca, 1.5 to 3cm thick, 1 Grey Qtz (Chert) with angular clasts (<1mm) doesn't cut across core axis.	Phyllic	S									
RVD17-06	D. LeFort						354.02	Qtz-Carb-Cpy-Py stringer ~1mm, parallel to 10 deg tca,											
RVD17-06	D. LeFort						355.25	Qtz-Carb-Cpy stringer, altered, smeared											
RVD17-06	D. LeFort						359.88	Qtz-Carb-Po-Py veinlet, 35 deg tca, 3mm											
RVD17-06	D. LeFort					359	367.28	EOH – Bottom of the hole characterized by weak phyllically altered Granite Granodiorite, with common shallow angle Chl-Ep veinlets, wispy anastomosing, Chl stringers (Chl-Po stringer @ 360.88m)	Propylitic	W	Phyllic	W							
RVD17-07	D. LeFort	0	26	GRA	Granite-Granodiorite: Moderate to strong oxidized medium-coarse grained biotite-Granite-Granodiorite. Megacrysts of feldspars up to 2cm. Mafic enclaves, often rounded. Oxidation is pervasive with moderately oxidized intervals present (4). Feldspars altered to Fe-clays. Shallow dipping Qtz veinlets (oxidized). Wispy, anastomosing fe-altered stringers. Core is broken and rubbly in sections of unit. Mafic enclaves altered. Fe altered intensity decreases with depth with alteration limited along fractures and reduced size of halos. Fe-rich clay present on fractures.					Fe	S									
RVD17-07	D. LeFort					15.99	16.15	Wispy, anastomosing fe-altered stringers	Fe	M									
RVD17-07	D. LeFort					16.8	17	Structure: Fault gouge, brown-red clay infilling with mm sized rounded to angular clasts.	Fe	I									
RVD17-07	D. LeFort	26	43.61	GRA	Granite-Granodiorite: Weakly oxidized medium-coarse grained biotite-Granite-Granodiorite. Megacrysts of feldspars up to 2cm. Mafic enclaves, often rounded (up to 10cm), un-altered and are highly magnetic (Po). High angle Qtz veinlets, both unaltered and Fe-altered present throughout. Mineralization: Qtz-Carb-Cpy-Py stringers present, many likely Fe-altered. Very fine grained diss Po in un-altered intervals. Veining: Chl-Ep stringers present, high angle (45-65 deg tca). Ep stringers present, small Ep crystals are rare often occurring adjacent to Ep stringers. Alteration: Fe-alteration occurring mostly along fractures and stringers-veinlets with Fe halos of a few cm. Fe-alteration strong in intervals of broken core. Fe-rich clay occurring along some fractures.					Fe	M	Phyllic	W	1	0.1					
RVD17-07	D. LeFort						27.8	5mm Qtz veinlet, 65 deg tca, strong Fe alteration											
RVD17-07	D. LeFort							5mm Qtz veinlet, 65 deg tca, partial Fe alteration where cut by fe-altered stringers.											
RVD17-07	D. LeFort					29.43	29.54	Fracture with halo of phyllic alteration, overprinted by Fe-alteration.											

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RVD17-07	D. LeFort						32.65	Chl-Ep stringer 45 deg tca											
RVD17-07	D. LeFort						33.55	Broken core, moderate-strong Fe-alteration											
RVD17-07	D. LeFort						33.75	Qtz-Cpy stringer, <1mm, parallel tca											
RVD17-07	D. LeFort						34.16	Chl-Ep stringer 65 deg tca											
RVD17-07	D. LeFort						34.41	Qtz-Carb-Py stringers 45-50 deg tca, bifurcating, 1mm thick											
RVD17-07	D. LeFort						35.05	Hematized Qtz-Py stringer, 10 deg tca											
RVD17-07	D. LeFort						36	Broken core, moderate-strong Fe-alteration											
RVD17-07	D. LeFort						39.17	Ep stringer, <1mm 50 deg tca											
RVD17-07	D. LeFort						39.79	ep stringer, <1mm 65 deg tca, Ep crystals adjacent to stringer											
RVD17-07	D. LeFort						42.4	Fe-Altered Py stringer, 40 deg tca											
RVD17-07	D. LeFort	43.61	69.75	GRA	Granite-Granodiorite: Weakly oxidized medium-coarse grained biotite-Granite-Granodiorite. This unit shows signs of increased mineralization (Qtz-Carb-Cpy-Po-Py stringers-veinlets and fine grained disseminated trace Cpy, Po and Py), weak phyllic alteration and weak potassic alteration associated with Cpy mineralization. Megacrysts of feldspars up to 2cm. Mafic enclaves, often rounded (up to 10cm), un-altered and are highly magnetic (fine grained disseminated Po). Fe-alteration occurring mostly along fractures and stringers-veinlets with Fe halos of a few cm. A Qtz veinlet shows oxidation, sulfides within the veinlet are altered, a few zones of broken core with moderate-strong Fe-alteration. Fe-rich clay occurring along some fractures. Mineralization: Qtz-Carb-Cpy-Po-Py stringers-veinlets present, some of these veins have halos of biotite alteration. Cpy mineralization from 45.5-46.20m. Very fine grained diss Po in un-altered intervals. Po commonly occurs with Chl stringers, which are often wispy, anastomosing clusters. Veining: Chl-Ep+-Qtz stringers present, high angle (45-65 deg tca). Ep stringers present, small Ep crystals are rare often occurring adjacent to Ep stringers. Aplite dyklets are present. Alteration: Weak phyllic alteration, feldspars altered to green mica-clays. Weak potassic alteration, Biotite halos (several cm) around Qtz+-Carb+-Cpy+-Po veinlets.				Phyllic	W	Potassic	W	1	1	2				
RVD17-07	D. LeFort						43.9	Very fine grained disseminated Cpy and Po											
RVD17-07	D. LeFort						44.74	Oblong 1 by 4cm mafic enclave with diss Po											
RVD17-07	D. LeFort						44.9	Qtz-Carb-Cpy-Po stringer, ~1mm, 10 deg tca											
RVD17-07	D. LeFort					45.43	45.5	Wispy, anastomosing, clusters of Chl stringers with diss Po											
RVD17-07	D. LeFort					45.6	45.68	Qtz-Po Veinlet, 1cm, 65 deg tca, Chl associated with Po in veinlet. 5cm biotite halo.											
RVD17-07	D. LeFort						45.94	Qtz-Po and Qtz-Carb-Cpy-Po stringers, 45 and 30 deg tca											
RVD17-07	D. LeFort						46.09	Qtz-Carb-Cpy-Po veinlet, 45 deg tca, 5mm, with 4cm biotite halos											
RVD17-07	D. LeFort						46.8	Qtz-Po stringer, 1mm, parallel tca											
RVD17-07	D. LeFort					47.03	47.39	Fine grained interval (aplitic)											
RVD17-07	D. LeFort						48.93	Qtz-sulfide vein, oxidized, surrounded by dark (chl) 6cm.											
RVD17-07	D. LeFort					51.1	51.17	Aplitic dyklet 4cm, 65 deg tca, wispy discontinuous dark strings throughout											
RVD17-07	D. LeFort					52.88	53.06	Biotite alteration, with disseminated blebs.											
RVD17-07	D. LeFort					55	55.33	Broken core, moderate-strong Fe-alteration											

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RVD17-07	D. LeFort						56.99	Ep-Qtz stringer 1mm, 45 deg tca, Ep crystals adjacent to stringer											
RVD17-07	D. LeFort					60.22	60.29	Aplitic dyklet 7cm, 85 deg tca											
RVD17-07	D. LeFort					63.25	63.35	Qtz-Carb veinlet, 4mm, 40 deg tca, biotite selvages (?) biotite alteration											
RVD17-07	D. LeFort						63.9	Offset Qtz-Py vein, 3cm 30 deg tca, Fe-altered, cut by fe-altered Py stringers											
RVD17-07	D. LeFort						66.59	Chl stringers in phyllically altered zone, Stringers, 70 deg tca, wispy, anastomosing, Fe-altered											
RVD17-07	D. LeFort					65.22	69.75	Phyllic alteration increases, localized 10cm to 1m sections of alteration. Weak, feldspars alter to greenish mica-clay.											
RVD17-07	D. LeFort	69.75	76.2	DIO	Dioritic Dyke: Fine grained, dark green-black biotite crystals (altered to Py), in a medium grey-green phyllically altered groundmass. Upper contact is irregular and chaotic, with diorite showing very fine grained chill margin. Fe-staining common along Carb-Py stringers and fractures with Fe halos usually a few mm wide. Mineralization: Wispy irregular Carb+-Py and Py stringers throughout. Common disseminated Py throughout, commonly replacing biotite grains (<1mm). In some places Py has been Fe-altered. Infrequent dark (Chl) halos around Fe-altered Py stringers. Alteration: Phyllic and Chloritization				Fe	w			4						
RVD17-07	D. LeFort						73.56	Black (Chl) halo around Fe-altered Py stringers											
RVD17-07	D. LeFort						74.75	Black (Chl) halo around Fe-altered Py stringer cut by white halo around sulfide stringer											
RVD17-07	D. LeFort						75.05	Black (Chl) and Py halo around Fe-altered stringer											
RVD17-07	D. LeFort	76.2	80.06	GRA	Granite-Granodiorite: Moderate to strong phyllic alteration, moderate Fe-alteration in stringers and along fractures, Fe-rich clay present on some open fractures. Biotite-rich zone up to 70%, with Fe-altered stringers. Basal contact has foliation and fault gouge which is intensely Fe-altered. Structures: Foliations and fault gouge present.				Fe	w	Phyllic	s							
RVD17-07	D. LeFort						76.3	Irregular Qtz pod (7cm), cut by discontinuous, fe-altered strings											
RVD17-07	D. LeFort						76.6	Patch of aligned dark, discontinuous wisps, 45 deg tca											
RVD17-07	D. LeFort						76.65	Fe-altered Qtz (?) Py vein, 1.5cm, mm to ~1cm clots of Py, Fe alteration halo											
RVD17-07	D. LeFort					78.2	79.25	Zone with abundant biotite 65-70%, megacrysts preserved, some biotite altered to gross brown-green colour (cut by Qtz stringer)											
RVD17-07	D. LeFort					79.43	79.9	Structure: Foliation. Upper portion is strong phyllic altered Granite-Granodiorite with crystals showing alignment, basal portion maintains sense of foliation but has intense Fe-alteration. 50 deg tca											

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RVD17-07	D. LeFort					79.9	79.95	Structure: Fault gouge. Intense Fe-alteration, mm to cm angular clasts with Fe-rich clay.											
RVD17-07	D. LeFort					79.95	80.06	Structure: Foliation. Intense Fe-alteration, maintain sense of foliation. 50 deg tca.											
RVD17-07	D. LeFort	80.06	84.84	DIO	Dioritic Dyke: Fine grained, dark green-black biotite crystals (commonly altered to Py), in a medium grey-green phyllically altered groundmass. Less biotite/Py than previous diorite unit. Fe-staining common along stringers and fractures with Fe halos usually a few mm wide. Mineralization: Common Qtz+-Py+-trace Cpy stringer-veinlets, 25-45 deg tca, common for Py to have weathered out leaving cavities. Carb+-Py veinlets, Fe-altered. A patch of Chl-Carb-Py, irregular mass. Py often seen on broken ends of core along core axis (fractures along Py stringers. Disseminated Py present, commonly replacing biotite grains (<1mm). Rare disseminated Po present. In some places Py has been Fe-altered. Alteration: Phyllic and Chloritization.				Chloritizatw		Phyllic	w						
RVD17-07	D. LeFort						80.45	Carb-Py veinlet, 70 deg tca, ~1cm wide, Fe altered											
RVD17-07	D. LeFort						80.5	Carb-Py veinlet, 70 deg tca, ~1cm wide, Fe altered											
RVD17-07	D. LeFort						80.58	Carb-Chl patch											
RVD17-07	D. LeFort						81.3	Cpy-Po-Chl stringer irregular offshoot of Fe-altered stringer, found when cutting core for core library 81.											
RVD17-07	D. LeFort						83.73	2 crisscrossing Qtz-Py (weathered out) veinlets, both 30 deg tca and 150 deg tca											
RVD17-07	D. LeFort						84.62	Qtz-Carb-tr Cpy stringer ~1mm, 20 tca, cut by Fe altered stringer											
RVD17-07	D. LeFort	84.84	159.3	GRA	Granite-Granodiorite: Weak to moderate phyllic altered Granite-Granodiorite, biotite-bearing, mafic enclaves and megacrystic. Mineralization: Qtz-Carb-Cpy-Po-Py-+Mo (?) stringers-veinlets,1-5 mm thick, low angle, crisscrossing each other. Although Cpy is present, it is often in trace quantities. Sometimes with biotite halo. Qtz-Po stringers throughout, usually 1mm, low angle. Po disseminated throughout unit. Carb stringers, Chl-Py-Po stringers throughout can cluster over some intervals. Veining: Aplite dyklets, granophyric veining present. Carb stringers and veinlets present, usually wispy. Alteration: Weak phyllic alteration throughout, several metre-thick intervals of moderate-strong phyllic alteration present, alteration occurrence and intensity increases with depth from 113 to 159.31m moderate phyllic alteration is present throughout with sporadic strongly altered intervals. Localized sections of potassic alteration observed (biotite). Chloritization of stringers present, some ground mass also shows some chloritization. Some Py stringers appear to be chloritized (@ 98.36m). Trace Ep crystals throughout, very rare. Structures: No major structures observed.				Phyllic	w	Potassic	w	1.5	0.1	2			
RVD17-07	D. LeFort						85.92	2 Qtz-Carb-Cpy-Po veinlets, 3mm, 30-40 deg tca, one cutting Chl-Py stringer (wispy, low angle)											
RVD17-07	D. LeFort						86.46	Qtz-Carb-Cpy-Po stringers, 1-mm, 25 deg tca with biotite halo cut by Qtz-Carb-Cpy-Po stringer without biotite halo											
RVD17-07	D. LeFort						88.29	Qtz-Cpy-Po stringer, 1mm 30 deg tca											
RVD17-07	D. LeFort						89.33	Qtz-Carb-Cpy-Po veinlet, ~5mm, 30 deg tca											
RVD17-07	D. LeFort						89.7	Qtz-Carb-Po-Mo (?) veinlet, 4mm, 40 deg tca											
RVD17-07	D. LeFort					90.01	90.28	Chl-Po-Py stringers clustered ~40 deg tca											
RVD17-07	D. LeFort					90.28	94.92	Moderate phyllic alteration, feldspars altered to light-medium green mica-clays.											
RVD17-07	D. LeFort						90.38	Qtz-Carb-Cpy-Po stringer, ~2mm, 40 deg tca											

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RVD17-07	D. LeFort						91.65	Qtz-Carb-Cpy-Po stringer, ~2mm, 40 deg tca											
RVD17-07	D. LeFort						92.5	Qtz-Carb-Cpy-Po stringer, ~1mm, 40 deg tca											
RVD17-07	D. LeFort						93.1	Granophyric vein, Qtz-Carb vein with Chl alteration											
RVD17-07	D. LeFort						93.35	Qtz-Carb-Cpy-Po-Py-Chl stringer, very low angle 5 deg tca, 1mm											
RVD17-07	D. LeFort						94.24	Qtz-Carb-Cpy-Py stringer, 1mm, 45 deg tca											
RVD17-07	D. LeFort						94.45	Qtz-Carb-Py-Black mineral, 1mm, 35 deg tca											
RVD17-07	D. LeFort						95.23	Qtz-Carb-Cpy-Po stringer, ~1mm, 30 deg tca cutting Chl stringers											
RVD17-07	D. LeFort						96.76	Qtz-Carb-Cpy-Po stringer, ~1mm, 30 deg tca											
RVD17-07	D. LeFort						96.96	Po bearing Mafic enclave, Qtz-Cpy-Po Stringer 1mm, 10 deg tca											
RVD17-07	D. LeFort						98.36	Chloritized Py-Cpy-Qtz (?) stringer, 1mm, 45 deg tca											
RVD17-07	D. LeFort						99.99	Qtz-Po stringer, 1mm, 65 deg tca with Chl halo, cut by Qtz-Po stringer <1mm 15 deg tca											
RVD17-07	D. LeFort					100	100.41	Qtz-Carb veinlets, 5-10mm, 50-65 deg tca, biotite-Chl alteration halos (?)											
RVD17-07	D. LeFort							Qtz-Carb-Cpy-Po stringer, ~1mm, 35 deg tca, diffuse margins											
RVD17-07	D. LeFort						101.5	Qtz-Cpy-Po stringer, <1mm, 35 deg tca, with biotite halo 5cm											
RVD17-07	D. LeFort						102.64	2cm Qtz-Cpy-Po veinlet, 65 deg tca with Bio-Po halo cut by Qtz-Cpy-Po stringer, 1mm, 35 deg tca											
RVD17-07	D. LeFort					103.74	105.15	Moderate phyllic alteration, feldspars altered to light-medium green mica-clays. Grey Qtz-pink Carb-Py veinlets, 1-5mm, 10-20 deg tca, sometimes cut by white carb veinlets. Qtz-Py veinlets crisscrossing near base of the unit.											

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RVD17-07	D. LeFort					105.2	112.97	Sublith is characterized by weak phyllic alteration, local biotite alteration (with Po) around Qtz-Po-Py stringers and veinlets. Common low angle Qtz-Po-Py stringers, sometimes sheeted. Aplitic dyklets and granophyric veins present. Sheeted Carb stringers. Common megacrysts. Single Chl-Ep vein observed.												
RVD17-07	D. LeFort						105.39	Qtz-Po-Chl veinlets 6mm, 60 deg tca, with Bio halo, Megacryst with Chl and Po											
RVD17-07	D. LeFort						107.14	Qtz-CarbCpy-Po veinlet, 5mm, 40 deg tca											
RVD17-07	D. LeFort						109.47	Aplitic dyklet 3cm, 65 deg tca, sugary texture											
RVD17-07	D. LeFort						109.98	Smeared Py from Qtz-Carb-Py veinlet, low angle, 1cm, Chloritized, Py shows interstitial texture, blocky-angular to irregular clots (up to 1cm)											
RVD17-07	D. LeFort					111.53	111.63	6cm Granophyric vein, 40 deg tca, cut obliquely by Qtz-Cpy-Po veinlet, 2mm, 35 deg tca											
RVD17-07	D. LeFort						112.5	Qtz-Carb-Cpy-Po stringer, ~1mm, 20 deg tca, cut by Po veinlet (?)											
RVD17-07	D. LeFort					112.94	115.7	Moderate-strong phyllic alteration, feldspars altered to light-medium green mica-clays. UST, Qtz veins and Aplite dyklet present.											
RVD17-07	D. LeFort					113.3	113.88	Pegmatite UST, large 3-4cm euhedral Qtz and Feldspar crystals, feldspars have greenish hue, Py occurs throughout with Chl along crystals boundaries. Bottom 11 cm grade from fine grained graphic texture to very fine grain aplitic texture											
RVD17-07	D. LeFort					115.43	115.48	3cm Qtz vein. Blocky Qtz with Chl (+Mo?) along boundaries, Carb-Py veinlets in center and lower margin.											
RVD17-07	D. LeFort					113	122	Little to no Cpy observed in this interval. Py-Carb veinlets, Carb stringers, sporadic strong phyllic alteration.											
RVD17-07	D. LeFort						121.95	Qtz-Po veinlet, 1cm, 45 deg tca											

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RVD17-07	D. LeFort						122.39	Qtz-Carb-Cpy-Po stringer, ~1mm, 10 deg tca											
RVD17-07	D. LeFort						123.32	Banded Qtz-Carb veinlet 1.5 cm 45 deg tca, with Py											
RVD17-07	D. LeFort						124.37	Qtz-Carb-Cpy-Po veinlet, 40 deg tca, 2mm, Chloritized around Py crystals											
RVD17-07	D. LeFort						125	Qtz-Carb-Cpy-Py veinlet, 2mm, 40 deg tca											
RVD17-07	D. LeFort						127.9	Qtz-Cpy-Po stringer <1mm 30 deg tca											
RVD17-07	D. LeFort						129.14	Cpy-Py stringer, <1mm, 30 deg tca											
RVD17-07	D. LeFort						130.12	Qtz-Cpy-Po stringer <1mm 30 deg tca											
RVD17-07	D. LeFort						130.61	Cpy-Py, disseminated or smeared low angle stringer											
RVD17-07	D. LeFort						130.99	Biotite-Po, <1mm crystals 5cm patch											
RVD17-07	D. LeFort						131.3	Cpy-Py, disseminated or smeared low angle stringer											
RVD17-07	D. LeFort						131.62	Qtz-Cpy-Po veinlet, 3mm, 15 deg tca											
RVD17-07	D. LeFort						132.5	Qtz-Cpy-Po stringer, 1mm, 45 deg tca											
RVD17-07	D. LeFort						133.19	Qtz-Carb-Cpy-Py stringer, <1mm, 35 deg tca											
RVD17-07	D. LeFort						133.7	Qtz-Cpy stringer, <1mm											
RVD17-07	D. LeFort						137.73	Qtz-Cpy-Po stringer <1mm 30 deg tca											
RVD17-07	D. LeFort						139.38	Qtz-Cpy-Po veinlet, 3mm, parallel tca											
RVD17-07	D. LeFort						139.7	Cpy-Po disseminated or smeared low angle stringer											
RVD17-07	D. LeFort						140.59	Qtz-Cpy stringer, <1mm, 30 deg tca											
RVD17-07	D. LeFort						141.25	Qtz-Po stringer, <1mm wispy, biotite halo 3cm											
RVD17-07	D. LeFort						142.1	Carb-Grey Qtz veinlet, 1cm, 40 deg tca, phyllic alteration halo 40cm											
RVD17-07	D. LeFort						143	Qtz-Cpy-Po Veinlet, 1cm 30 deg tca											
RVD17-07	D. LeFort						143.39	Qtz-Cpy-Po stringer, <1mm, 15 deg tca											
RVD17-07	D. LeFort						143.64	Qtz-Cpy-Po stringer, <1mm, 15 deg tca											
RVD17-07	D. LeFort						145.13	Qtz-Cpy-Po stringer, <1mm, 15 deg tca											
RVD17-07	D. LeFort						146.55	Qtz (grey)-Cpy-Po <1mm, 20 deg tca											
RVD17-07	D. LeFort						148.15	Qtz-Cpy veinlets, crisscrossing, 10 and 65 deg tca, veinlets cut Chl-Py stringers, cut by Carb stringer											
RVD17-07	D. LeFort							Qtz-Cpy-Po stringer with phyllic alteration halo ~1cm, cutting Qtz-Cpy-Po stringer w/o halo											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-07	D. LeFort						152.77	Qtz-Cpy-Po stringer, ~1mm, 25 deg tca											
RVD17-07	D. LeFort					153	153.11	Structure: Fault gouge, white waxy clay infill with mm to cm angular clasts of Granite-Granodiorite											
RVD17-07	D. LeFort						155.44	Qtz-Po stringer, 1mm, 20 deg tca with faint Bio (?) halo <1cm											
RVD17-07	D. LeFort						156.05	Qtz-Cpy stringer, <1mm 30 deg tca cut by Carb stringer with Fe-alteration											
RVD17-07	D. LeFort					156.25	157.03	Fe-alteration along fractures and along some wispy discontinuous stringers											
RVD17-07	D. LeFort	159.3	208.2	GRA	Granite-Granodiorite: Moderate medium-coarse grained biotite-Granite-Granodiorite. Mineralization: Qtz-Carb-Cpy-Po-Ars (?)-Silver sulfosalt stringers-veinlets present throughout. These are dominated by Qtz-Carb, usually with small flecks or blebs of Cpy. The Qtz-Po variety of these stingers are the most common. They are low angle and usually ~1mm thick. Several Ars-Py veinlets observed. Qtz-Cpy-Py stringers present, wispy, Py-rich often associated with Chl. Chl-Py stringers throughout. Usually low angle Qtz-Py veinlets present. Localized intervals of sheeted, wispy, discontinuous Chl-Py (?) stringers. Carb-Py stringers present. Carb-Hem stringers present. Alteration: Feldspars often altered to green mica-clays. Phyllic alteration is commonly strong over several intervals and increases toward the base of the unit. Oxidation is pervasive in fractured zones (broken core, structures, Ox no 3). Structures:				Phyllic	m								
RVD17-07	D. LeFort						159.35	Qtz-Carb-Cpy-Po veinlet, 40 deg tca, 3mm, cut by Qtz-Carb veinlet											
RVD17-07	D. LeFort					161.39	161.59	UST, pegmatitic Qtz-Feld Pod, not continuous across core											
RVD17-07	D. LeFort						161.79	Qtz-Py veinlet, 4mm 40 deg tca cut by Qtz Py veinlet with Fe-altered wisps											
RVD17-07	D. LeFort					162.4	162.43	Structure: Fault gouge, brown-red clay (oxidized) infilling with mm sized rounded to angular clasts. Grey Qtz veinlet at upper contact 45 deg tca.											
RVD17-07	D. LeFort					163.57	165.22	Fe-altered interval with fault gouge , fe-alteration along fractures and in fault gouge zones											
RVD17-07	D. LeFort					164.78	164.85	Structure: Fault gouge, brown-red clay (oxidized) infilling with mm sized rounded to angular clasts. 25 deg tca.											
RVD17-07	D. LeFort					165.19	165.28	Structure: Fault gouge, upper half brown-red clay (oxidized) infilling with mm sized rounded to angular oxidized clasts. Lower half, grey-green clay with mm to cm angular clasts of strong phyllic altered Granite-Granodiorite											

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RVD17-07	D. LeFort					165.28	169.33	Strong phyllic alteration, broken and rubbly in parts chloritization towards the base. Low angle Qtz-Py veinlets, carb stringers											
RVD17-07	D. LeFort						167.87	Qtz-Carb-Tr Cpy stringer ~1mm, 30 tca, cut by Qtz-Carb-Py stringer											
RVD17-07	D. LeFort						169.61	Qtz-Tr Cpy-Py stringer,											
RVD17-07	D. LeFort						171.89	Cpy-Po disseminated or smeared low angle stringer											
RVD17-07	D. LeFort						172.23	Qtz-Cpy-Ars-Py veinlet, 7mm, 35 deg tca, silvery Py-Ars is bulk of veinlet, <1mm blebs of Cpy present											
RVD17-07	D. LeFort					173.66	191	No Po observed, common wispy Py stringers											
RVD17-07	D. LeFort						175	Qtz-Py-Hem (?) stringer, diffuse <1mm 30 deg tca											
RVD17-07	D. LeFort						175.26	Cpy-Py stringer, <1mm, 20 deg tca, Qtz-Py veinlet, 7mm, 20 deg tca											
RVD17-07	D. LeFort						176.12	Qtz-Py-Ars-tr Cpy veinlet 5mm, 35 deg tca											
RVD17-07	D. LeFort						176.4	Qtz-Cpy-Py stringer< 1mm, 15v deg tca cut by Qtz Py stringer, 30 deg tca, 1mm											
RVD17-07	D. LeFort						176.65	Qtz-Cpy-Py stringer< 1mm, 25 deg tca											
RVD17-07	D. LeFort					179.22	179.65	Qtz-Carb-Cpy-Py-Ars vein 2cm, 15 deg tca, Py-Ars occurring at 179.22 and Cpy occurring at 179.65m											
RVD17-07	D. LeFort						180.93	Qtz-Cpy-Py veinlet, 2mm, 20 deg tca											
RVD17-07	D. LeFort						181.23	Qtz-Chl(?)-Cpy-Py stringer, <1mm wispy, 20 deg tca											
RVD17-07	D. LeFort						183.15	Qtz-Carb-Cpy-Py veinlet 2mm, low angle, smeared											
RVD17-07	D. LeFort					184.64	184.99	Qtz-Py-Ars stringer 1mm, 20 deg tca, wispy, cutting Sheeted Qtz veinlets, 3mm 90 deg tca											
RVD17-07	D. LeFort						185.58	Qtz-Carb-Silver sulfosalt, several <1mm flecks, irregular blebs of silver, soft mineral, euhedral Qtz-Carb											
RVD17-07	D. LeFort						186.4	Qtz-Chl-Py-Ars stringer, wispy, low angle 15 deg tca											
RVD17-07	D. LeFort					186.84	196.89	Mostly weak phyllic alteration in this interval, some moderate patches											
RVD17-07	D. LeFort						188.2	Qtz-Carb-Py stringer parallel to core axis for ~1m											
RVD17-07	D. LeFort						191	Qtz-Po stringer, 1mm 25 deg tca											

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RVD17-07	D. LeFort						191.85	Qtz-Po stringer, <1mm, 25 deg tca with Biotite halo (1cm)											
RVD17-07	D. LeFort						192.46	2cm Qtz vein with Chl along boundaries, lenses of Qtz-Carb+-Py+-Silver sulfosalt with in the Qtz vein											
RVD17-07	D. LeFort						194.62	Qtz-Cpy-Po stringer <1mm 30 deg tca											
RVD17-07	D. LeFort						195.82	Qtz-Cpy-Po stringer <1mm 20 deg tca											
RVD17-07	D. LeFort						201.73	Qtz-Cpy-Po stringer, ~1mm, 25 deg tca, Qtz-Po stringer<1mm 45 deg tca with light alteration halo											
RVD17-07	D. LeFort						203.78	Qtz-Py stringer, ~1mm, 25 deg tca, with light alteration halo											
RVD17-07	D. LeFort						206.03	Qtz-Carb-Cpy stringer ~1mm, 45 deg tca											
RVD17-07	D. LeFort						207.26	Qtz-Py-Hem stringer, 1mm parallel tca											
RVD17-07	D. LeFort						207.47	Qtz-Cpy veinlet, smeared											
RVD17-07	D. LeFort																		
RVD17-07	D. LeFort	208.2	220.5	GRA	Granite-Granodiorite: Strong phyllic alteration, medium-coarse grained biotite-Granite-Granodiorite. Feldspars often altered to bleached white, yellow, brown-green (barf-green), green mica-clays (Dark green may be due to chloritization). Structures: Fault zone (?) Core is often broken, with breccia and fault gouge common. Fractures often have waxy green clay along surfaces. Breccia and fault gouge also present.				Phyllic	S									
RVD17-07	D. LeFort						209.8	Structure: Breccia. Healed brecciated vein with clasts of subrounded to subangular banded dark grey Qtz veins, Py forms rims around Qtz clasts. Carb and Py are infilling.											
RVD17-07	D. LeFort					212.83	213.11	Structure: Fault gouge: Soft strongly altered phyllic clasts, green-grey clay (swelled)											
RVD17-07	D. LeFort					214.42	214.73	Structure: Broken core fault gouge. Green-grey clay with angular mm to cm sized clasts.											
RVD17-07	D. LeFort						215	Structure: Broken core, one piece (8cm) with mm angular, blocky clasts of altered Granite-Granodiorite, with a tan yellow infilling, soft clay (?)											
RVD17-07	D. LeFort						215.9	Structure: Broken core. Grey-greenish clay veinlet with tan yellow clay veinlet with <1mm angular clasts											
RVD17-07	D. LeFort					213.2	216.1	Core is broken, with common brecciation, infilling and fault gouge, Qtz veining present.											
RVD17-07	D. LeFort	220.5	242.1	GRA	Granite-Granodiorite: Medium-coarse grained biotite-Granite-Granodiorite. Mineralization: Qtz-Carb-Cpy-Po-Py stringers and veinlets present. Qtz-Po stringers common. Wispy Carb-Py veinlets, irregular, low angle, sometimes parallel tca. Less Cpy mineralization than previous weakly phyllic altered unit. Carb stringers throughout, can be irregular and discontinuous. Chl-Py stringers. Po and Py found throughout. Alteration: Weak to moderate phyllic altered. Feldspars often altered to green mica-clays.				Phyllic	w									
RVD17-07	D. LeFort						220.96	Qtz-Carb-Cpy-Py veinlet, 5mm, parallel											

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RVD17-07	D. LeFort						221.7	Small patch of biotite alteration.											
RVD17-07	D. LeFort						221.8	Smeared Py											
RVD17-07	D. LeFort						223.36	Qtz-Carb-Cpy-Py 5mm, deg tca											
RVD17-07	D. LeFort						232.13	Qtz-Cpy-Po veinlet, ~1mm 20 deg tca											
RVD17-07	D. LeFort						235.74	Qtz-Carb-Cpy-Po stringer, <1mm, 10 deg tca, wispy											
RVD17-07	D. LeFort						239.2	Qtz (grey)-Carb-Cpy-Po ~7mm, 20 deg tca, wispy, diffuse boundaries											
RVD17-07	D. LeFort	242.1	327.2	GRA	Granite-Granodiorite: Moderate to strong phyllic alteration, medium-coarse grained biotite-Granite-Granodiorite. Mineralization: Classic Qtz-Carb-Cpy-Po stringers are observed, usually shallow angle <45 deg tca. Wispy shear stringers and veins are observed throughout, They are usually Carb-Py bearing but can host Qtz, Chl and trace Cpy. Some thick Qtz veins have Py-Mo, Mo occurring as stringers or selvages. Veining: Wispy Carb-Py veinlets, shallow angle, often breccia infilling. Core is broken in parts. Qtz veins are present, some barren clusters are observed. Alteration: Feldspars often altered to bleached white, yellow, brown-green (barf-green), green mica-clays (Dark green may be due to chloritization). Intercalated units of moderate to strong alteration. Strongly altered sections are bleached white clays or dark-green brown mica-clays with secondary chloritization (?). Structures: Fault gouge, broken core and shear veins present.				Phyllic	m			1.5	1	1.5	0.5			
RVD17-07	D. LeFort						242.64	Carb-Py vein, 2-3cm, wispy irregular bands of Carb and Py, Py often lens-like											
RVD17-07	D. LeFort					244.58	245.26	Shallow Qtz-Carb-Py vein, anastomosing, dark Qtz, Pink Carb, Chaotic, Py replacing Carb (?)											
RVD17-07	D. LeFort						245.66	Shallow Qtz-Carb-Py vein, anastomosing, medium grey blue clay, Pink Carb, wispy											
RVD17-07	D. LeFort						247.18	1.5cm barren Qtz vein, 35 deg tca cut by Carb stringer											
RVD17-07	D. LeFort						248.02	Qtz-Carb-Cpy-Po veinlets, main Cpy-bearing veinlet is 1cm, other bifurcating Qtz-Carb veins cutting veinlet and sheeted veinlets											
RVD17-07	D. LeFort						248.77	2.5cm Qtz-Mo, Mo forms aligned faint stringers											
RVD17-07	D. LeFort					249.22		Strong phyllic alteration. Low angle Qtz-carb stringers											
RVD17-07	D. LeFort					251.79	251.89	Structure: Fault gouge phyllically altered Granite Granodiorite clasts mm to cm											
RVD17-07	D. LeFort						252.2	Qtz-Chl-Tr Mo? Dark blue Qtz with diss Chl +-Mo(?), wispy margins, pink carb vein, ~7mm thick adjacent to Qtz vein, 40 deg tca											
RVD17-07	D. LeFort					252.2	252.4	Structure: Fault gouge mm to cm ang clasts with grey-green clay infill, 40 deg tca											

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RVD17-07	D. LeFort					253.15	253.25	2 sheeted Qtz-Carb-Py veinlet, 25 deg tca, wispy irregular wisps of pinkish carb, Py and grey Qtz, diffuse margins, 2nd veinlet is vuggy											
RVD17-07	D. LeFort					253.25	262.8	Little to no sulfide mineralization observed in this interval.											
RVD17-07	D. LeFort					264.42	264.6	Broken core, small chunks still held together											
RVD17-07	D. LeFort					265.31	272.2	Interval characterized by broken core, shallow fault gouge (parallel tca), Qtz-Carb-Py veining. And strong phyllic alteration.											
RVD17-07	D. LeFort					265.31	265.6	Chloritized											
RVD17-07	D. LeFort					266.08	266.2	Qtz-Carb-Py vein, 2-3cm, low angle, broken core. mm-1cm clots of Py hosted within Qtz, brecciated-healed with Carb infill											
RVD17-07	D. LeFort					266.65	266.72	Grey-Blue Qtz-Carb-Py vein, 2cm, wispy irregular veins, Carb portions have clasts of Qtz, 45 deg tca											
RVD17-07	D. LeFort					268.37	268.48	Structure: Fault gouge mm to cm ang clasts with grey-green clay infill, 15 deg tca one side of core.											
RVD17-07	D. LeFort					268.85	269	Qtz vein, 8-9cm thick, broken core, banded Qtz, selvages of Mo (?), parallel carb stringers, 45 deg tca											
RVD17-07	D. LeFort					271.27	272.3	Structure: Fault gouge, irregular contact runs parallel with foot and hanging wall, Py veinlet runs parallel to the contact, Ang-rounded mm clasts in Grey clay infill, several ~5cm subrounded clasts.											
RVD17-07	D. LeFort					272.92	272.02	Aplitic dyklet 10cm, 65 deg tca, sugary texture											
RVD17-07	D. LeFort					272.02	278.94	Strong phyllic alteration, white-light-green clays, 4 grey-Qtz-Carb Py veinlets, 3mm, 30 deg tca, wispy, diffuse boundaries											
RVD17-07	D. LeFort					278.94	279.46	Qtz-Carb-Py stringer, parallel tca, Biotite halo around stringer for this interval.											
RVD17-07	D. LeFort						282.22	Ep stringer,5mm 45 deg tca											
RVD17-07	D. LeFort						286.87	Qtz-Carb-Cpy-Po stringer, 1mm, 30 deg tca, Biotite halo											

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RVD17-07	D. LeFort						287	Qtz-Carb-Cpy-Po stringer, 1mm, 30 deg tca, Biotite halo											
RVD17-07	D. LeFort						289.32	Qtz-Carb-Py veinlet, wispy margins, parallel tca ~1cm											
RVD17-07	D. LeFort						289.97	Carb-Chl-Py, Chl-Py selvages, 5mm, 25 deg tca											
RVD17-07	D. LeFort						291.23	Qtz-Carb-Py veinlet, irregular, wispy, 5mm											
RVD17-07	D. LeFort						291.67	Qtz-Carb-Cpy-Py, 2mm wispy irregular, wavy											
RVD17-07	D. LeFort						292.38	5cm Qtz-Mo-Py vein, 35 deg tca, banded Qtz-Mo with Py selvages, darker qtz with diss Py (?)											
RVD17-07	D. LeFort						292.67	Qtz-Carb-Cpy-Py veinlet, irregular, 3mm											
RVD17-07	D. LeFort						292.82	Qtz-Carb-Cpy-Py veinlet, irregular, wavy, 3mm											
RVD17-07	D. LeFort					292.9	295.8	Interval is soft, crumbly, and characterized by common fault gouge, shallow angle with core axis. Strong Phyllic alteration, bleached. Washes away when trying to clean it. Some competent intervals are present.											
RVD17-07	D. LeFort					299.13	299.92	Structure: Fault gouge mm sized blocky clasts, 2 shallow angle 20 deg tca, Chl(?) stringers											
RVD17-07	D. LeFort					303.07	303.45	Structure: Slickenlines along broken Chl-Py portion of vein, Broken core, Shallow angle 30 deg tca (?) Shear vein, Qtz-Carb-Py-Chl, wispy, irregular bands and margins											
RVD17-07	D. LeFort						303.8	Qtz-Py-Tr Cpy veinlet 1.5 cm, Py along center of vein, tr Cpy as a small bleb <1mm											
RVD17-07	D. LeFort					304	308.2	Common Qtz Veins, shallow angle											
RVD17-07	D. LeFort						304.35	Qtz-Carb-Cpy-Po veinlet, 40 deg tca, blocky clots of Po, polymineralic crystals of Cpy-Po											
RVD17-07	D. LeFort						304.68	Chl-Py-tr Cpy (?) <1mm, 30 deg tca, wispy diffuse											
RVD17-07	D. LeFort						305.04	Tan-sugary text Qtz vein. 2Cm 45 deg tca, cut by Qtz-Carb-Py stringer and Carb stringers											
RVD17-07	D. LeFort						306.22	Qtz-Carb-Cpy veinlet (classic euhedral Qtz) cutting shallow bifurcating Qtz vein.											

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RVD17-07	D. LeFort						306.76	Carb-Chl veinlet, 45 deg 3mm, wispy, sheared, cutting Low angle Qtz-Carb-Py veinlet, 1cm, Py-Tarnished, Carb weakly altered											
RVD17-07	D. LeFort						307	Carb-Chl veinlet, 40 deg tca, 1cmm, wispy sheared, broken											
RVD17-07	D. LeFort						308	1.5cm barren Qtz vein, 35 deg tca cut by Carb stringers with Hem alteration.											
RVD17-07	D. LeFort						308.35	30cm altered mafic enclave											
RVD17-07	D. LeFort					310.03		Soft core. Strong phyllic alteration (smectite, swelling clay), breaks apart easily, common fault gouge											
RVD17-07	D. LeFort						311.28	Sheeted Qtz-Py veinlets, 2-3mm, crisscrossing 30-45 deg tca											
RVD17-07	D. LeFort					312.24	312.95	Structure: Fault gouge mm sized blocky clasts, parallel tca, grey green clay infill											
RVD17-07	D. LeFort					316.59	316.95	Shear vein. Wispy irregular bands of Qtz-Carb and Py. Dark Qtz with diss Py (?) Mo is present. Py often forms worm-like elongated clots. Late-carb stringers present throughout cutting Qtz-Py. 4Cm clast of altered Granite-Granodiorite within vein, Microfault near base, offset by 1cm											
RVD17-07	D. LeFort					321.85	322.45	Structure: Fault gouge mm to cm ang clasts with grey-green clay infill, 40 deg tca.											
RVD17-07	D. LeFort						324	Qtz-Carb-Py vein, 2cm, 65 deg tca, shear vein											
RVD17-07	D. LeFort						326.53	Qtz-Cpy-Py stringer 2mm, grey qtz wispy, cutting Qtz veinlet, Carb-Py stringer also cutting Qtz veinlet											
RVD17-07	D. LeFort	327.2	361.6	GRA	Granite-Granodiorite: Weak to moderate phyllic altered Granite-Granodiorite, biotite-bearing, mafic enclaves and megacrystic. Mineralization: Qtz-Carb-Cpy-Po-Py stringers-veinlets present. Varying orientations, the veinlets are observed parallel tca which may give anomalous assay results. Qtz with Bio selvages with wispy Bio-Cpy mineralization within Qtz. Veining: Carb stringers, <1mm ~40 deg tca. Carb+--Hem stringers present. Wispy Chl-Py stringers throughout, low to high angle, sheeted. Qtz-Carb-Cpy-Py (classic). Qtz-Py veinlets present, high angle. Ep crystals present but rare. Structures: Shear veins present.				phyllic	w								
RVD17-07	D. LeFort						327.39	Qtz-Carb stringer, 25 deg tca, Chl halo 3cm											
RVD17-07	D. LeFort						329.19	Qtz-Py stringer, ~1mm, 25 deg tca, biotite halo 4cm											
RVD17-07	D. LeFort						329.73	2cm Granophyric vein, Qtz-Carb vein, 30 deg tca cut by Chl-Py stringers											
RVD17-07	D. LeFort						331.72	Qtz-Carb-Py veinlet, irregular, wispy, 1cm, shear vein, 75 deg tca											

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RVD17-07	D. LeFort						332.45	Qtz-Carb-Cpy-Py, 1 cm, 45 deg tca (classic)											
RVD17-07	D. LeFort					333.6	333.76	Aplitic dyklet 10cm, 65 deg tca, sugary texture, cut by Qtz-Py veinlets											
RVD17-07	D. LeFort						334.64	Py stringer, 20 deg tca, biotite halo 1cm total											
RVD17-07	D. LeFort					336.85	337.5	Common mafic enclaves, 1cm to 6cm, subround to subangular, irregular, Carb stringer at base.											
RVD17-07	D. LeFort						337.66	Qtz-Carb-Cpy-Py stringer, <1mm, 35 deg tca cut by Qtz-Carb-Py stringer											
RVD17-07	D. LeFort						338.39	Qtz-Carb-Cpy-Py veinlet, 5mm, 65 deg tca (classic)											
RVD17-07	D. LeFort						339.35	4cm Qtz vein with biotite selvages, wispy Bio-Cpy mineralization within Qtz vein, cut by Qtz-Cpy stringer											
RVD17-07	D. LeFort					341.12	341.24	Qtz (grey-white and tan-clay altered)-Carb-Chl-Py shear vein, 6cm, 45 deg tca, wispy margins, banded											
RVD17-07	D. LeFort					341.5	342.64	Qtz-Carb-Cpy-Py, 2mm, wispy, parallel to core axis											
RVD17-07	D. LeFort						343.65	Fracture with 2mm fault gouge, mm sized angular clasts, 5 deg tca											
RVD17-07	D. LeFort						345.5	Hem stringer, <1mm 40 deg tca, rusty red cavities											
RVD17-07	D. LeFort						345.8	Mafic enclave 5cm, with Po, cut by Cpy-Py stringers <1mm, 15 deg tca											
RVD17-07	D. LeFort						346.75	Qtz-Carb-Cpy-Py – hem stringers. <1mm 20 deg tca, wispy											
RVD17-07	D. LeFort					346.91	347.2	Shear. Shear vein, foliated, wavy ~30 deg tca. Qtz-Carb-Py-Cpy, carb infilling											
RVD17-07	D. LeFort						347.62	Qtz-Cpy veinlet, 25 deg tca, 2mm											
RVD17-07	D. LeFort						350.95	Qtz-Carb-Po-Py 3mm, 25 deg tca											
RVD17-07	D. LeFort						351.62	Qtz-Carb-Po 5mm, 45 deg tca, white halo											
RVD17-07	D. LeFort						353.86	Qtz-Py-Hem with a Bio-Chl halo											
RVD17-07	D. LeFort						353.9	Ep grain with baby face, 2mm											
RVD17-07	D. LeFort						353.27	Qtz-Carb-Cpy stringer ~1mm, 25 deg tca											
RVD17-07	D. LeFort						353.5	Trace Cpy (?) diffuse stringer											
RVD17-07	D. LeFort					354.44	354.78	Green, fine grained, siliceous dyke with anastomosing Carb stringers throughout											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-07	D. LeFort					356.77	361.63	Increasing phyllic alteration, shear veins, carb stringers. Chloritization of some altered clays.											
RVD17-07	D. LeFort						357.36	Shear vein. Wispy, Qtz-Chl- clays, soft, tan, green, 6cm, 50 deg tca											
RVD17-07	D. LeFort						357.76	Qtz-Py stringers crisscrossing, 1mm, 25 and 45 deg tca											
RVD17-07	D. LeFort						361	Qtz-Carb veinlet, 1cm, 70 deg tca											
RVD17-07	D. LeFort	361.6	370.6	GRA	Granite-Granodiorite: Strong phyllic alteration, chloritization along some fractures. Structural zone characterized by common fault gouge with rounded clasts and breccia. Core is soft in fault gouge zones and strongly phyllic altered intervals. Mineralization: Qtz-Carb-Cpy-Py stringers present. Diss Cpy within breccia zones. Chl-Carb stringers.				Phyllic	s									
RVD17-07	D. LeFort						364.34	Py stringer, 20 deg tca, <1mm											
RVD17-07	D. LeFort					365.1	365.35	Structure: Fault gouge, strong-Intense phyllic alteration, 3cm rounded Qtz clast with calcite crystal inclusions, cut by carb stringers. Mm to cm sized clasts with Grey-Green clay infill. Middle portion is intact but soft.											
RVD17-07	D. LeFort					365.66	366.78	Structure: Fault gouge throughout, shallow along core axis. Several rounded clasts (alt GRA) with abundant mm sized angular clasts of altered Granite-Granodiorite. Rounded mm to cm sized clasts at basal contact, healed conglomeratic texture.											
RVD17-07	D. LeFort					366.78	369.11	Structure: Fault breccia-veining. Characterized by multiple stages of Qtz-Carb veining. Qtz is dark grey-blue, carb is white. Late -stage carb interstitial texture around mm to cm angular clasts of qtz, Qtz-Carb vein. Cpy occurs disseminated in the breccia as well as along vein margins. Py occurs as elongated blocky brecciated veins. Brown-olive green mineral throughout, soft, altered host rock clasts?											
RVD17-07	D. LeFort					368.23	368.5	Qtz-Carb-Cpy veinlet, 1cm parallel tca,											
RVD17-07	D. LeFort						369.55	Qtz-Carb veinlet, 1cm, 45 deg tca, grey-blue Qtz seen in the overlying breccia, (same as the clast in fault gouge@ 365.1-356.35m).											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-07	D. LeFort					369.8	369.89	Qtz-Carb-Py veins, Py veinlet is 1.2cm thick, 65 deg tca, angular blocky and elongated Py crystals.											
RVD17-07	D. LeFort	370.6	379	QFP	Quartz feldspar porphyry: Moderate to strong phyllic alteration. Feldspar crystals and groundmass altered to olive-green-brown clays, some feldspar crystals show chloritization (?) (dark green, very soft). Aphanitic intervals. Feldspars are commonly euhedral, consistently altered. Qtz eyes present. Basal contact is unclear due to strong alteration of QFP and Granite-Granodiorite. Mineralization: Py-rich Qtz-Carb-Cpy-Py veinlets present. Abundant carb stringers-veinlets, all orientations, commonly crisscrossing.				phyllic	m			2	1	1.5				
RVD17-07	D. LeFort						379.4	Qtz-Carb-Cpy-Py veinlet, 2mm, 5 deg tca											
RVD17-07	D. LeFort						372.44	Qtz-Carb-Cpy-Py veinlet, 5mm, classic, 60 deg tca, chl-bio (?) alteration halo											
RVD17-07	D. LeFort						372.81	Qtz-Carb-Tr Cpy-Py veinlet, 3mm, 20 deg tca classic											
RVD17-07	D. LeFort						375.72	Qtz-Carb-Py veinlet, Carb along margin, 4mm, 25 deg tca											
RVD17-07	D. LeFort						376.21	Py veinlet, 5mm, 35 deg tca											
RVD17-07	D. LeFort						376.53	Irregular anastomosing Carb vein with fleck of Hem											
RVD17-07	D. LeFort						377	Carb-Cpy-Py											
RVD17-07	D. LeFort	379	383.4	GRA	Granite-Granodiorite: Medium-coarse grained biotite-Granite-Granodiorite. Blue -grey Qtz vein, cut by numerous wispy carb stringers, late stage anhydrite (?) stringer cutting Qtz and carb. Mineralization: Single Qtz-Carb-Cpy stringer observed. Veining: Carb stringers throughout, can be irregular and discontinuous. Qtz-Py veinlets present, planar high angle. Carb stringers present, wispy irregular, low angle. Alteration: Moderate phyllic altered. Feldspars often altered to green mica-clays.				phyllic	m			1						
RVD17-07	D. LeFort					379.23	379.34	Blue-grey Qtz-Chl vein, ~10cm, 65 deg tca. Cut by Carb stringers throughout, wispy carb stringers along basal contact. Cut by anhydrite stringer, 1mm wavy, parallel tca.											
RVD17-07	D. LeFort						381.51	Qtz-Carb-Cpy stringer, <1mm low angle											
RVD17-07	D. LeFort	383.4	386.8	BX	Fault breccia-veining. Very broken core. Characterized by 2 main types of brecciation. First, a Qtz-Carb-Py vein-breccia. Qtz is dark grey-blue, carb is white. Late -stage carb interstitial texture around mm to cm angular clasts of qtz, Qtz-Carb vein. Cpy occurs disseminated in the breccia as well as along vein margins. Py occurs as elongated blocky brecciated veins and worm-like veins. Second, a fault breccia with subround-subangular clasts of grey translucent Qtz with altered inclusion and clasts of subangular to angular clasts of brecciated banded Qtz-Carb veins.															
RVD17-07	D. LeFort						384	Qtz-Cpy stringer, <3mm, small bleb of Cpy, in broken piece of core											
RVD17-07	D. LeFort						386.61	1-2mm angular blebs of Cpy, hosted in Qtz-Carb veinlet, in Blue-grey Qtz-Carb portion of breccia											
RVD17-07	D. LeFort	386.8	389.1	QFP	Quartz feldspar porphyry: Moderate to strong phyllic alteration. Aphanitic intervals. Feldspars are commonly euhedral, consistently altered. Qtz eyes present. Brecciated sections with Qtz-Carb-Py infill. Mineralization: Qtz-Carb-Cpy-Py veinlets present. Veining: Dark grey Qtz-veinlets, wispy irregular. Carb stringers throughout. Alteration: Feldspar crystals and groundmass altered to olive-green-brown clays, some feldspar crystals show chloritization (?) (dark green, very soft).				phyllic	m			1.5	1					
RVD17-07	D. LeFort						386.87	Structure: Small pod of breccia, Qtz-Carb-Py-Tr Cpy, shear vein at low angle											
RVD17-07	D. LeFort						387	Qtz-Carb-Cpy veinlet, 3mm 30 deg tca											
RVD17-07	D. LeFort						387.8	Qtz-Carb-Cpy stringer, low angle does not cut core axis											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-07	D. LeFort					388.4	388.68	Breccia, Qtz-Carb-Py breccia wormy Py veinlets, rounded clasts of 1-5mm clasts of Py, Qtz-Carb-Cpy veinlet, irregular, parallel to core											
RVD17-07	D. LeFort	389.1	410.5	GRA	Granite-Granodiorite: Medium-coarse grained biotite-Granite-Granodiorite. Mineralization: Qtz-Carb-Cpy-Po-Py (classic) are present, the veinlets are very low angle. Often parallel tca. Mo occurs as small flecks within blue-grey Qtz-Py veinlets. Qtz-Py veinlets present, planar high angle. Py-Chl stringers present throughout, with trace Cpy. Veining: Carb stringers throughout, can be irregular, low angle wispy and discontinuous. Py-Carb stringers present, uncommon. Microfaulted Qtz veinlet. Alteration: Weak to moderate phyllic alteration, strong phyllic alteration around some fractures. Feldspars often altered to green mica-clays.				Phyllic	w		1.5	1	1.5			
RVD17-07	D. LeFort					389	397	Very low angle Qtz-Carb-Cpy-Py veinlets, often parallel to core axis.											
RVD17-07	D. LeFort						389.03	Qtz-Carb-Cpy veinlet (classic), 1mm, 30 deg tca											
RVD17-07	D. LeFort						390.23	Qtz-Carb-Py Veinlet, shear vein, wispy 20 deg tca, ~8mm											
RVD17-07	D. LeFort						392	Qtz-Carb-Cpy-Py 5mm, (classic) 5 deg tca, very shallow											
RVD17-07	D. LeFort						393.24	Qtz-Carb-Cpy-Py 2mm, (classic) 5 deg tca, very shallow											
RVD17-07	D. LeFort						395	Qtz-Carb-Cpy-Py 1mm, (classic) 5 deg tca, very shallow											
RVD17-07	D. LeFort						396.7	Qtz-Carb-Cpy-Py 1mm, (classic) 5 deg tca, very shallow											
RVD17-07	D. LeFort						397.25	1.5 cm Qtz vein, with microfault, 1.5 cm offset											
RVD17-07	D. LeFort					400	400.39	Strong phyllic alteration around a 4mm clay veinlet, 20 deg tca											
RVD17-07	D. LeFort						400.81	Biotite wispy patch, wormy intergrowths of Ep (?)											
RVD17-07	D. LeFort						402.03	Qtz-Py-Mo 1cm, blue-grey qtz (chl?), with very fine grained Cpy, and flecks, blades of Mo											
RVD17-07	D. LeFort						404.76	Qtz-Carb-Po 1mm, 20 deg tca											
RVD17-07	D. LeFort						404.9	Qtz-Carb-Po stringer, <1mm 25 deg tca cutting greenish-grey aplite dyklet, 2cm.											
RVD17-07	D. LeFort						405.05	Qtz -Py stringer, 1mm, 65 deg tca, with 6cm Biotite halo											
RVD17-07	D. LeFort						406.65	Py-Tr Cpy on fracture, looking down core axis											
RVD17-07	D. LeFort						408	Qtz-Ep-Bio-Py wispy veinlet, 3mm 30 deg tca											
RVD17-07	D. LeFort						409.02	Qtz-Carb-Po smeared veinlet											
RVD17-07	D. LeFort						409.12	Qtz-Carb-Cpy-Py, smeared, tr Cpy											
RVD17-07	D. LeFort	410.5	422	RHY	Dark Grey-Black Dyke (felsic): Aphanitic, dark-grey black, siliceous dyke. Cut by Py and Carb stringers throughout, all orientations. Stringers are often accompanied by a lighter brown halo (~1cm), Py often associated with Chl. The higher concentration of stringers the lighter the groundmass due to alteration. Some biotite alteration observed. Cpy-Py+-Carb stringers present. The stringers are low angle. An altered interval with common irregular carb stringers and veinlets present.				Phyllic 1	w								
RVD17-07	D. LeFort						414.05	Py-Chl stringer, <1mm, 20 deg tca											

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RVD17-07	D. LeFort						414.36	Carb-Cpy stringer, smeared											
RVD17-07	D. LeFort						414.56	Network of Qtz-Carb-Cpy-Py, low angle, smeared, Bio halo~1cm											
RVD17-07	D. LeFort						414.9	Qtz-Carb-Cpy-Py stringers, 2mm, smeared low angle, biotite halo											
RVD17-07	D. LeFort						416.15	Qtz stringer, light green halo											
RVD17-07	D. LeFort					416.62	416.83	Light interval, alteration, common irregular Carb stringers, all orientations											
RVD17-07	D. LeFort						418.27	Granite-Granodiorite inclusion, 15cm, weakly phyllic altered with Ep grain											
RVD17-07	D. LeFort						420.5	Granite-Granodiorite inclusion, 30cm, weakly phyllic altered, rounded											
RVD17-07	D. LeFort						420.75	Granite-Granodiorite inclusion, 10cm, weakly phyllic altered irregular											
RVD17-07	D. LeFort	422	441.2	GRA	Granite-Granodiorite: Weak-Mod phyllic altered GRA. Megacrystic, mafic enclaves, weak localized biotite alteration. Fine-grained interval (siliceous) with abundant Chl stringers. Mineralization: Qtz-Carb-Cpy-Py-Mo stringers, veinlets. Py stringers. Wispy Qtz-Carb-py sheared veinlets throughout. Shear vein present with fibrous, soft green-brown mineral. Mo veinlet observed, 2mm, broken Mo "paint." K-spar halos around some Qtz-Carb-Cpy veinlets. Veining: Chl stringers. Qtz veinlet with associated Bio stringers. Alteration: Weak to moderate phyllic alteration, weak localized potassic alteration.				Phyllic	w	Potassic	w	1	0.5	0.5	1			
RVD17-07	D. LeFort					422.29	422.48	Altered QFP with abundant Chl stringers.											
RVD17-07	D. LeFort						422.85	Qtz-Py stringer, ~1mm, 35 deg tca, biotite halo 2cm											
RVD17-07	D. LeFort					423.39	423.65	Qtz-Cpy stringer, <1mm, Qtz-Po-Py-Cpy-As stringer, with Cpy-Po-Py offshoot, all low angle, smeared											
RVD17-07	D. LeFort						423.72	Carb-Cpy stringer, <1mm very low angle											
RVD17-07	D. LeFort						424.52	Carb-Cpy-Po smeared											
RVD17-07	D. LeFort						424.85	Po Py stringer											
RVD17-07	D. LeFort						425.38	Qtz-Cpy-Py stringer, 1mm 20 deg tca											
RVD17-07	D. LeFort						425.9	2cm Qtz-Carb-Py, Wispy blue Qtz+Carb, Carb with angular clasts of Carb-Qtz, Qtz in carb portion of vein (breccia)											
RVD17-07	D. LeFort						427.1	Qtz-Cpy-Mo stringer, <1mm discontinuous											
RVD17-07	D. LeFort						428.22	Smeared Cpy stringer											
RVD17-07	D. LeFort						429.37	Qtz veinlet 45 deg, 2cm, Biotite stringers, 45 deg tca, wispy											
RVD17-07	D. LeFort					430.67	430.86	Shear vein. Soft, fibrous, green-brown mineral (clay, actinolite?). Chalcedonic Qtz (blue banded) clasts, clasts of green-brown mineral with Carb infilling. Py stringer through the centre of the vein. 45 deg tca, 13cm, brecciated clasts of Green-Brown at the lower contact.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-07	D. LeFort						436.73	Mo veinlet, 2mm, 45 deg tca											
RVD17-07	D. LeFort						438.8	Qtz-Carb-Cpy veinlet, 2mm, 20 deg tca											
RVD17-07	D. LeFort							Qtz-Carb-Cpy veinlet, 2mm, 15 deg tca, with 1cm K-spar halo											
RVD17-07	D. LeFort						439.82												
RVD17-07	D. LeFort						441.15	Biotite stringers, clustered 45 deg tca, wispy											
RVD17-07	D. LeFort	441.2	445.6	RHY	Dark Grey-Black Dyke (felsic): Aphanitic, dark-grey black, siliceous dyke. Cut by Py and Carb stringers throughout, all orientations. Stringers are often accompanied by a lighter brown halo (~1cm) biotite?, Py often associated with Chl. Some biotite alteration observed around stringers. Cpy-Py+-Carb stringers present. The stringers are low angle. An altered interval with common irregular carb stringers and veinlets present. Sharp upper contact, gradation lower contact, wispy black groundmass with rounded-subrounded Granite-Granodiorite clasts.				Phyllic	1	w		1	0.1					
RVD17-07	D. LeFort						442.77	Cpy-Py stringer, <1mm, 10 deg tca											
RVD17-07	D. LeFort						443.29	Granite-Granodiorite inclusion, 10cm, weakly phyllic altered irregular											
RVD17-07	D. LeFort	445.6	451.7	GRA	Granite-Granodiorite: Absent to weak phyllic alteration. Typical GRA, mafic enclaves, megacrystic. Qtz-Py stingers present, 30-45 deg tca. Po in mafic enclaves. Fractures with clay infill. Qtz-Py vein with Kspar alteration halo cut by gradational upper contact with the dark-grey -black dyke.				Phyllic	1	w		1		0.5				
RVD17-07	D. LeFort						445.63	Qtz-Py veinlet, 4mm, irregular, parallel tca, with 2cm Kspar halo.											
RVD17-07	D. LeFort						450.9	Structure: Fracture, 45 deg tca, grey-grey clay infill											
RVD17-07	D. LeFort	451.7	484.6	GRA	Granite-Granodiorite: Moderate phyllic altered GRA. Megacrystic, mafic enclaves, localized weak and strong phyllic alteration. Mineralization: Qtz-Carb-Cpy-Po-Py stringers-veinlets, with euhedral Qtz and interstitial Carb+-Cpy-Po-Py. Py+-Qtz stringers. Wispy Qtz-Carb-Py sheared veinlets throughout, low angle. K-spar halos around some Qtz-Carb-Cpy veinlets. Po in mafic enclave. Veining: Chl-Py stringers present. Carb stringers throughout. Alteration: Phyllic alteration increases from weak to moderate phyllic alteration. Qtz-Ser-Py veinlets present. White, light-green, green mica-clays. Rare Chl-Ep veinlets. Qtz veinlets with Bio halos. Kspar alteration associated with various vein types (Carb-Hem and Qtz-Carb-Cpy-Py veinlets). EOH				Phyllic	1	m	Potassic	w	1.5	1	1				
RVD17-07	D. LeFort					451.67	457	Weak phyllic alteration.											
RVD17-07	D. LeFort						453.53	Qtz-Carb-Cpy veinlet, (classic), 65 deg tca, 3mm											
RVD17-07	D. LeFort						454.35	Qtz-Carb-Cpy-Py, 2mm, 30 deg tca											
RVD17-07	D. LeFort					457	484.63	Moderate phyllic alteration.											
RVD17-07	D. LeFort						457.55	Qtz-Carb-Cpy-Po veinlet, 30 deg tca, 4mm											
RVD17-07	D. LeFort						457.81	Wispy Cpy-Py <1mm wispy, 30 deg tca											
RVD17-07	D. LeFort						458.16	Cpy-Py stringers cut by Carb stringer											
RVD17-07	D. LeFort					463.43	464.2	Qtz veining, 1-5cm wide, 65 deg tca with biotite halos											
RVD17-07	D. LeFort					464.15	465.54	Strong phyllic alteration, light-green mica-clays											
RVD17-07	D. LeFort						465.14	Qtz-Carb-Py-Cpy wispy shear veinlet, low angle, 1cm, broken											
RVD17-07	D. LeFort					465.54	465.8	Qtz- veins, 50 deg tca, biotite halos 10-15cm											
RVD17-07	D. LeFort						466.45	Qtz-Carb-Cpy-Po stringer, 1mm, classic, 25 deg tca											
RVD17-07	D. LeFort						466.53	Qtz-Carb-Cpy stringer ~1mm, diffuse, 25 deg tca											
RVD17-07	D. LeFort					468.4	468.59	Qtz vein, 75 deg tca, 4cm, with 1cm Chl-Ser veinlet off centre with biotite halos (10cm)											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-07	D. LeFort						470.73	Cpy-Py-Chl(?) stringer, wispy, low angle parallel tca											
RVD17-07	D. LeFort						471.82	Chl-Ep veinlet, 3mm, 5 deg tca											
RVD17-07	D. LeFort						472	Qtz-Carb-Cpy-Po veinlet, classic, 5mm, 40 deg tca											
RVD17-07	D. LeFort					472.8	472.97	Kspar alteration zone, with carb-hem stringer, <1mm, 35 tca											
RVD17-07	D. LeFort						474.81	Qtz-Carb-Cpy-Py veinlet (classic), <2mm, 70 deg tca, with Kspar alteration halo (2cm)											
RVD17-07	D. LeFort					479.83	480.06	Common Chl-Py stringers, wispy, 65-70 deg tca											
RVD17-07	D. LeFort						480.31	Aplitic dyklet 1.5cm, 45 deg tca, sugary texture											
RVD17-07	D. LeFort					481.75	481.9	Py-Chl stringer, <1mm parallel tca cutting common high angle Py-Chl stringers											
RVD17-07	D. LeFort						483.4	Qtz-Carb-Cpy-Po stringer, 1mm, 20 deg tca (classic)											
RVD17-08	E. Adlakha	0	13.6	OVB	Overburden / tillite														
RVD17-08	E. Adlakha	13.6	30.96	TUF	Lithology: buff-tan to grey-green fine grained crystal tuff breccia (diatreme). Phenocrysts of qtz-feldspar make up matrix to diatreme among a very fine grained to aphyric felsic groundmass. Fragments in the breccia make up roughly 10-15% of rock and are composed of [qtz-feldspar porphyry > plag-phyric porphyry > f.g. to m.g. granodiorite = fragments of sulfide+/-qtz]. Fragments are rounded to sub-rounded, ranging in size from 5mm to >1-2cm. Alteration: Mostly weak sericite-qtz alteration of feldspar and pervasively through the fragments (phyllic), overprints a weak iron alteration (local hematite). Mineralization: Fractures coated with pyrolusite (MnO) and irregular veinlets with dendritic growths. Veins include qtz-ser-pyr stringers (~2/m, 1-5mm, 30tca). Fragments can be mineralized with pyrite +/-cpy. Locally a cpy bearing fragment can be found at 20.4m				Phyllic	1	w	iron	w	0.3	0					
RVD17-08	E. Adlakha	30.96	60.39	TUF	Lithology: Light grey-green lithic-rich crystal tuff breccia (diatreme). Similar to interval above, but fragment size and number increases. Fine grained qtz-fsp rich matrix varies from f.g. to microcrystalline in discrete contacts (e.g., 41.79m), but fragment inventory remains consistent across these contacts. Fragments make up ~40% of rock, locally more (e.g., >80% ~30.96-31.8m), and have similar composition to above interval (+subrounded to sub-angular). @42.09-45.16m, qfp dykes(? Coarser grained groundmass, brecciates diatreme and imposes contact metamorphism. Alteration: Moderately phyllic over a weak iron assemblage. Most coarse fsp phenocrysts have been weathered out. Mineralization: Weakly mineralized interval with partial sulfide replacement and entrainment by the diatreme (dominantly pyrite). Presence of malachite indicates cpy likely a small part of this assemblage.				Phyllic	1	m	iron	w	0.2	0					
RVD17-08	E. Adlakha	60.39	71.63	TUF	Lithology: Fine grained lithic-poor crystal-tuff breccia (diatreme). Likely similar in composition to the matrix of the above interval, but this interval is heavily altered by ser(?)-qtz-pyrite and disseminated pyrite clots which can increase in density to the point of making up >60% of the rock (e.g., 63.4-64.5m, 68.7-70.2m). Pyrite clots tend to have pale grey haloes (pale ser?). Alteration:. Interval has a pervasive moss-green colour with patchy rusty iron (both reduced and oxidized, respectively?). Sericite is the primary pervasive alteration, qtz and py appear clotty and tend to replace any fragments. Mineralization: Pyrite is locally accompanied by chalcopyrite and arsenopyrite + moly and a dark grey-blue mineral (MnO?). The dense py concentrations may be host to good gold grade?				Phyllic	1	s			10	0.2		0.1		asp	0.5
RVD17-08	E. Adlakha	71.63	204.5	TUF	Lithology: fine to medium grained, grey crystal-tuff (diatreme). Phenocrysts (1-5 mm) of feldspar and quartz are surrounded by a fine-grained grey felsic matrix. Lithic fragments (0.5 to 5 cm) constitute <5% of the rock and comprise [qtz-feldspar porphyry > fragments of sulfide > metasediment, f.g. to m.g. Granitoid] >sea green altered clasts (collected for TS at 119.95). Rare QFP fragments contain disseminated pyrite (e.g.,94.35) and quartz porphyric clast containing pyrite aggregates with disseminated moly at 114.74 (photo). Some QFP clasts show sericite reaction rim. Rare "mantled" fragment containing core of xtal tuff and rind or mantle of QFP (photo). Fragments are subrounded to subangular. Some areas are lithic fragment-rich contain 40% lapilli (e.g from 94.89 to 96.90, 103 to 105, 106 to 140). Patch of fine-grained crystal tuff from 105.20 to 105.41. Alteration: Unit is weakly to moderately altered by pervasive sericite replacing feldspar. Sporadic intervals of reddish tan oxidation (see subliths). Infrequent barren quartz veins. Local sericite-limonite stringers at 105.20. Qtz-sericite-+/-py veinlet at 108.58 (photo), 113.85 (photo), 117.05 (photo) Mineralization: Pyrite occurs as fragments, and coatings on fractures. Pyrite is altered by (grey-blue) MnO on fractures between 71.63 and 81.60). Scheelite mineralization as disseminated crystals in patches (91.44 to 91.70, 97.21, 120.75, 121.60, 123.66 to 123.94, 124.46). Cpy is scarce and occurs as very f.g blebs in pyrite fragments (e.g., 118.05 to 119.15). Moly is scarce, occurring in fragments of pyrite (see subliths) and as trace disseminations from 124.7 to 145).				Phyllic	1	w	iron	w	1	0		0	0.1		
RVD17-08	E. Adlakha					71.63	72.23	oxidized zoned – orangey buff											
RVD17-08	E. Adlakha					81.57	93.72	broken core with fault gouge											
RVD17-08	E. Adlakha					106	140	Intercalated crystal and lapilli tuff											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-08	E. Adlakha					107.5	108.3	broken core with fault gouge											
RVD17-08	E. Adlakha					114.95	116.89	broken core with fault gouge											
RVD17-08	E. Adlakha					125.35	125.6	pyrite and moly fragments											
RVD17-08	E. Adlakha					130.1	130.2	disseminated scheelite											
RVD17-08	E. Adlakha					130.93	131.07	disseminated scheelite											
RVD17-08	E. Adlakha					133.1	144.78	high proportion of large (>10 cm) lapilli, averages 0.1% py and 0.1% molybdenite as disseminations											
RVD17-08	E. Adlakha						133.91	disseminated molybdenite-qtz vein											
RVD17-08	E. Adlakha						136.4	pyrite vein											
RVD17-08	E. Adlakha					136.56	136.78	QFP dyke containing 10% py											
RVD17-08	E. Adlakha					138.1	138.2	f.g felsic dyke or clast with f.g black disseminations and sericite-qtz stringer (photo)											
RVD17-08	E. Adlakha						138.65	limonite sericite stringer											
RVD17-08	E. Adlakha					139.27	129.36	barren QFP dyklet											
RVD17-08	E. Adlakha						140.32	sericite stringer											
RVD17-08	E. Adlakha						141.73	pyrite stringer											
RVD17-08	E. Adlakha						142.25	pyrite stringer											
RVD17-08	E. Adlakha						144.52	pyrite stinger											
RVD17-08	E. Adlakha						145.9	pyrite octahedrons on fracture surface (photo)											
RVD17-08	E. Adlakha					147.63	147.83	Pyrite-qtz-sericite and possibly molly stringers – 3 within the interval											
RVD17-08	E. Adlakha						150	45deg fracture with white clay and pyrite(TS)											
RVD17-08	E. Adlakha						150.44	135deg fracture with white clay and pyrite											
RVD17-08	E. Adlakha						151	limonite clay stringer											
RVD17-08	E. Adlakha						151.33	limonite clay stringer											
RVD17-08	E. Adlakha						151.75	Qtz-ser-py +/- moly discontinuous stringer											
RVD17-08	E. Adlakha					153.7	153.83	hydrothermally altered groundmass to pyrite and quartz (photo)											
RVD17-08	E. Adlakha						154.59	Qtz-ser-py +/- moly discontinuous stringer											
RVD17-08	E. Adlakha						155.23	Qtz-ser-py +/- moly discontinuous stringer											
RVD17-08	E. Adlakha						156.20.	Veinlet 1 cm of soft grey/translucent mineral and sulfides (photo)											
RVD17-08	E. Adlakha						156.77	QFP clast mantled with pyrite (photo)											

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RVD17-08	E. Adlakha					157.57	160.95	f.g crystal tuff with ~0.5% py and 0.01 to 0.1 Mo											
RVD17-08	E. Adlakha					160.95	166.1	intercalated lapilli and crystal tuff average 0.5% Py and 0.1 to 0.01 Mo											
RVD17-08	E. Adlakha						160.56	possible cpy blebs in py											
RVD17-08	E. Adlakha					160.14		QSP stringer											
RVD17-08	E. Adlakha						161.43	discontinuous moly py stringer											
RVD17-08	E. Adlakha					163.07	16350	discontinuous py moly stringer, low angle to core											
RVD17-08	E. Adlakha					164.56	164.7	pyrite moly stringer low angle to core											
RVD17-08	E. Adlakha						164.86	large 3cm pyrite aggregate mantled by replaced groundmass of moly-quartz-sericite (photo)											
RVD17-08	E. Adlakha						165.39	patch of disseminated scheelite											
RVD17-08	E. Adlakha					165.4	165.54	pyrite stringer with large 2 cm aggregate											
RVD17-08	E. Adlakha					166.1	204	f.g crystal tuff with diss pyrite clasts and moly crystals at .01-.05 and 0.01-0.1 respectively.											
RVD17-08	E. Adlakha					169.16	169.28	diss scheelite											
RVD17-08	E. Adlakha						169.59	fracture with pyrite											
RVD17-08	E. Adlakha						170.27	pyrite mineralized QFP clast											
RVD17-08	E. Adlakha					174	174.2	pyrite moly quartz stringer											
RVD17-08	E. Adlakha						174.53	disseminated scheelite											
RVD17-08	E. Adlakha						176.49	Pyrite-qtz-sericite and possibly molly stringers											
RVD17-08	E. Adlakha						176.9	Moly-pyrite bleb in large QFP clast											
RVD17-08	E. Adlakha						179.21	Pyrite-quartz-moly stinger											
RVD17-08	E. Adlakha						179.46	Pyrite-sericite-moly stringer											
RVD17-08	E. Adlakha					179.83	182	strong pervasive sericite stringers with abundant fractures containing pyrite, sericite and moly											
RVD17-08	E. Adlakha						183.57	pyrite along fracture											
RVD17-08	E. Adlakha						185.42	QSP veinlet											
RVD17-08	E. Adlakha						186.39	QSP veinlet											
RVD17-08	E. Adlakha						188.4	pyrite along fracture											
RVD17-08	E. Adlakha						188.58	pyrite along fracture											
RVD17-08	E. Adlakha						149.73	diss scheelite											
RVD17-08	E. Adlakha						140.26	pyrite mantling QFP clast											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-08	E. Adlakha						140.65	QSP veinlet possible moly											
RVD17-08	E. Adlakha						192.33	QSP veinlet											
RVD17-08	E. Adlakha						142.9	QSP veinlet											
RVD17-08	E. Adlakha						196.1	QSP veinlet											
RVD17-08	E. Adlakha						200.86	quartz pyrite stringer											
RVD17-08	E. Adlakha					201.1	201.25	pyrite in QFP clasts											
RVD17-08	E. Adlakha					202.74	202.84	QFP dyke											
RVD17-08	E. Adlakha						203	QSP veinlet											
RVD17-08	E. Adlakha						204.25	quartz pyrite stringer with possible moly											
RVD17-08	E. Adlakha	204.5	209	TUF	Lithology: Crystal-lapilli tuff with pinkish red potassically altered aphanitic groundmass. Lapilli account for 10-20% of the rock and are predominately QFP clasts with minor pyrite clasts. Likely a continuation of the unit above that was overprinted by fluids. Alteration: Groundmass moderately to strongly altered by pervasive k-feldspar (sample sent for staining). Potassic alteration is locally cross-cut but white f.g sericite or clay stringers. Possibly some remnant Mo-qtz-ser altered groundmass (photo) Mineralization: Pyrite occurs as small (5 to 10 mm) aggregates or clasts, disseminated in groundmass and as stringers.				Phyllic 1	m	Potassic	w	0.5	0		0	0		
RVD17-08	E. Adlakha					204.55	204.78	sericite stringers and possible Mo-qtz-ser altered groundmass (photo)	Phyllic 1	w			0.5			0			
RVD17-08	E. Adlakha						205.36	QSP stringer											
RVD17-08	E. Adlakha						205.6	QSP stringer											
RVD17-08	E. Adlakha					206.75	208	Grey-green sericite alteration pervasive with local patchy Potassic alteration											
RVD17-08	E. Adlakha						208.08	QSP veinlet											
RVD17-08	E. Adlakha						208.2	sericite stringer											
RVD17-08	E. Adlakha						208.46	2 parallel sericite stringers											
RVD17-08	E. Adlakha					208.55	209	broken core pervasively altered some fault gouge, containing disseminated pyrite and stringers											
RVD17-08	E. Adlakha	209	242.1	TUF	Lithology: Crystal tuff containing 25-35% quartz and feldspar phenocrysts and 5-10% lapilli surrounded by aphanitic felsic grey groundmass. Lapilli dominated by QFP (lesser granite, metased, and mantled juvenile clasts with rare sea-green clasts) that are sometimes mantled by thin layer of sericite alteration and/or contain pyrite aggregates. Small (5 to 10cm) lenses of crystal and lapilli poor (groundmass-rich) aphanitic lenses. Alteration: Weak pervasive sericite alteration of groundmass and feldspar phenocrysts Mineralization: disseminated pyrite crystals and aggregates or clasts. Pyrite also occurs within sericite quartz stringers. Trace disseminated moly, which grades into higher concentrations towards the base of the hole before higher-grade mineralization.		210.2	QSP stringer											
RVD17-08	E. Adlakha						210.19	QSP stringer											
RVD17-08	E. Adlakha						212.34	QSP stringer											
RVD17-08	E. Adlakha						213.57	QSP stringer											
RVD17-08	E. Adlakha						213.57	pyrite stringer											
RVD17-08	E. Adlakha						214.14	QSP stringer											
RVD17-08	E. Adlakha						214.37	QSP stringer											
RVD17-08	E. Adlakha						214.7	QSP stringer											

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RVD17-08	E. Adlakha						216.9	QSP stringer											
RVD17-08	E. Adlakha						216.5	QSP stringer											
RVD17-08	E. Adlakha						219.23	diss scheelite											
RVD17-08	E. Adlakha						221.76	QSP stringer											
RVD17-08	E. Adlakha					224.5	242.11	increase in molly content towards end of hole evident by bluish black coloration of sulfide clasts and increased abundance of molly disseminations											
RVD17-08	E. Adlakha					226	226.2	QSP veinlet with molly											
RVD17-08	E. Adlakha					226.46	226.7	QSP veinlet with molly											
RVD17-08	E. Adlakha					227.15	227.25	QSP stringer											
RVD17-08	E. Adlakha						228.6	diss scheelite											
RVD17-08	E. Adlakha					230.2	230.4	replacement of groundmass by quartz-sericite-pyrite-molly and veinlets (photo)											
RVD17-08	E. Adlakha						232.9	QSP stringer											
RVD17-08	E. Adlakha						233.85	QSP stringer											
RVD17-08	E. Adlakha						235.36	replacement of groundmass by quartz-sericite-pyrite-molly											
RVD17-08	E. Adlakha						235.82	replacement of groundmass by quartz-sericite-pyrite-molly											
RVD17-08	E. Adlakha						236	replacement of groundmass by quartz-sericite-pyrite-molly											
RVD17-08	E. Adlakha					236	239.5	increase in crystal content of tuff to 80%											
RVD17-08	E. Adlakha						234.37	Quartz-pyrite-molly-sericite veins with possible trace cpy											
RVD17-08	E. Adlakha	242.1	250.2	TUF	Lithology: Crystal-Lapilli tuff with blue-black quartz-sericite-moly-pyrite or pinkish red (Potassic or hematite alteration) replaced aphanitic matrix. Phenocrysts (feldspar and quartz) and lapilli (predominately QFP clasts, rare sea-green) are relatively unaltered, although may be mantled by moly (photo) Alteration: Groundmass replaced by either quartz-sericite-moly-pyrite or hematite/Potassic alteration. WRT timing, hematite alteration appears to pre-date sulfide mineralization. Late-stage sericite or sericite-limonite stringers cross-cut previously described alteration. Pervasive clay (phyllic or argillic) alteration occurs locally in association with gouge – core loses competency with altered in this manner. Mineralization: Pyrite occurs as isolated, disseminated fine-grained crystals, as fine-grained aggregates, or coating fractures. Molybdenite is fine-grained and disseminated within ground mass, or mantling pyrite aggregates. Chalcopyrite is rare and occurs as isolated, fine-grained (<0.5mm) anhedral masses in association with other sulfides.				Phyllic	1	w	Iron	m	5	0		1			
RVD17-08	E. Adlakha						242.18	cpy bleb on fracture											
RVD17-08	E. Adlakha						243.92	cpy bleb in molly matrix											
RVD17-08	E. Adlakha					244	244.44	relatively unaltered crystal tuff – similar to previously described unit - contains 1 molly-quartz stringer											
RVD17-08	E. Adlakha					244.44	245.08	pervasive hematite (or potassic?) alteration											
RVD17-08	E. Adlakha						245.17	Cpy mantling a clast (photo)											

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RVD17-08	E. Adlakha					246.6	247	brecciation of hematite altered tuff by sulfide (PyMoCpyWtzSer)											
RVD17-08	E. Adlakha					249.51	250.15	brecciation of tuff by qsp+m veins											
RVD17-08	E. Adlakha	250.2	273	TUF	Lithology: Crystal tuff containing 25-35% quartz and feldspar phenocrysts and 5-10% lapilli surrounded by aphanitic felsic grey groundmass. Lapilli dominated by QFP (lesser granite, metased, and mantled juvenile clasts with rare sea-green clasts) that are sometimes mantled by thin layer of sericite alteration and/or contain pyrite aggregates. Small (5 to 10cm) lenses of crystal and lapilli poor (groundmass-rich) aphanitic lenses. Alteration: Weak to moderate pervasive sericite alteration of groundmass and feldspar phenocrysts. Small patches of quartz replacement of groundmass, quartz is blue-black and possibly contains moly. Mineralization: Disseminated pyrite crystals and aggregates or clasts. Pyrite also occurs within sericite quartz stringers/veinlets. In local pyrite-rich zone, euhedral pyrite grains appear to overprint both groundmass and lapilli (photo). Trace disseminated moly, and possible moly in quartz replacement of groundmass. Chalcopyrite increases toward base of unit, and occurs with pyrite in blebs and veinlets.				Phyllic 1	w			1	0		0	0		
RVD17-08	E. Adlakha						250.25	qsp+moly stringer											
RVD17-08	E. Adlakha						252.46	quartz vein containing phenocrysts											
RVD17-08	E. Adlakha						252.68	quartz vein containing phenocrysts											
RVD17-08	E. Adlakha						253.15	qsp+moly stringer											
RVD17-08	E. Adlakha					259.45	262.43	pyrite rich zone containing 5% euhedral pyrite crystals that overprint groundmass and clasts											
RVD17-08	E. Adlakha						264.9	QFP clast mantled with pyrite											
RVD17-08	E. Adlakha						265.66	Quartz veinlet											
RVD17-08	E. Adlakha						269.22	QSP veinlet											
RVD17-08	E. Adlakha						269.72	QSP veinlet											
RVD17-08	E. Adlakha					270.7	271.83	QSP+Cpy veinlet											
RVD17-08	E. Adlakha	273	278.4	TUF	Lithology: Same unit as above but brecciated/replaced by quartz-sericite-pyrite-moly alteration (photo). Alteration: Moderate to strong phyllic alteration of ground mass. Mineralization: Pyrite occurs as fine-grained disseminations in altered matrix, within quartz-sericite-pyrite veinlets and along fractures. Moly occurs within veinlets and altered groundmass. Chalcopyrite is rare and occurs with pyrite.				Phyllic 1	m			5	0.2		0.5			
RVD17-08	E. Adlakha						274	dolomite vein cross-cut by QSP (photo)											
RVD17-08	E. Adlakha	278.4	306.2	TUF	Lithology: Fine grained crystal tuff with aphanitic light grey ground mass containing 15-20% phenocrysts of feldspar and quartz, and <3% lapilli (alt (chlorite?) though local areas can contain up to 5-10%). Lapilli are subrounded to subangular, large (>10 cm) and predominately QFP showing no or green or red (hematite) alteration. Minor metased, granitoid and sea-green fragments observed. Alteration: Moderate phyllic alteration of ground mass. Mineralization: Pyrite occurs as fine-grained rounded aggregates or crystal disseminated in groundmass. Chalcopyrite commonly occurs within pyrite aggregates. Moly occurs within veinlets and altered groundmass. Chalcopyrite occurs with pyrite and become increasingly more abundant toward the base of the unit.				Phyllic 1	m	Iron	w	3	0.1		0.5			
RVD17-08	E. Adlakha						278.56	granitoid clast 15 cm											
RVD17-08	E. Adlakha					280.3	280.5	crystal poor area contain <5% phenocrysts											
RVD17-08	E. Adlakha						283.2	quartz stringer											
RVD17-08	E. Adlakha					283.46	283.63	sericite stringer											
RVD17-08	E. Adlakha						283.68	pyrite-quartz-sericite-moly replaced matrix											
RVD17-08	E. Adlakha					286.74	286.94	high pyrite abundance ~20%											
RVD17-08	E. Adlakha						287.66	chalcopyrite mantling hematized QFP clast (photo)											
RVD17-08	E. Adlakha					287.44	290.67	large lapilli rich area											

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RVD17-08	E. Adlakha						288.4	QSP stringers											
RVD17-08	E. Adlakha					288.8	291.57	pervasive hematite alteration of core overprinted by sericite brecciation											
RVD17-08	E. Adlakha						293.23	pyrite locally 15%											
RVD17-08	E. Adlakha						293.26	QSP+Cpy veinlet											
RVD17-08	E. Adlakha						294	QSP+Cpy veinlet											
RVD17-08	E. Adlakha						294.51	QSP stringer											
RVD17-08	E. Adlakha					295	295.1	alteration of groundmass to qsp+moly crosscut by white clay stringers and overprinted by a mass of py+Cpy (photo)											
RVD17-08	E. Adlakha					295.19	295.39	brecciated by sericite stringers											
RVD17-08	E. Adlakha						296.51	QSP+Cpy veinlet											
RVD17-08	E. Adlakha					298.7	298.84	pseudobreccia of lapilli rich crystal ruff overprinted by QSP+m mineralization											
RVD17-08	E. Adlakha						300.1	QSP+m replacing matrix											
RVD17-08	E. Adlakha						300.35	QSP+m replacing matrix											
RVD17-08	E. Adlakha					300.49	300.62	hematized lapilli tuff containing 10% pyrite locally											
RVD17-08	E. Adlakha					301.9	36	10% pyrite with .1% cpy and quartz-sericite-molly altered groundmass											
RVD17-08	E. Adlakha						301.75	Qsp+moly cpy? Veinlet											
RVD17-08	E. Adlakha					302.26	302.63	brecciated tuff by QSP-molly-cpy veinlets and stringers											
RVD17-08	E. Adlakha					303.65	304.94	hematite tuff brecciated (broken core) by sericite alteration											
RVD17-08	E. Adlakha						307.87	disseminated scheelite											
RVD17-08	E. Adlakha	306.2	313	TUF	Lithology: Crystal lapilli tuff with groundmass replaced by blackish blue quartz-sericite-pyrite-molly +/- chalcopyrite. Brecciation not common. Phenocrysts and lapilli are largely unaltered (same as above) with local zones crystal or lapilli rich. Alteration: moderate to intense phyllic alteration. Mineralization: Pyrite occurs as fine-grained rounded aggregates (up to 1.5cm) or crystals disseminated in groundmass. Pyrite average 10% modal abundance but is locally up to 30%. Chalcopyrite commonly occurs within pyrite aggregates. Moly occurs disseminated in quartz altered groundmass - metallic euhedral crystals are rare. Sometimes blackish blue quartz moly mixture mantles pyrite aggregates				Phyllic 1	m			10	0.5		0.1		0	
RVD17-08	E. Adlakha	313	338.6	TUF	Lithology: Fine grained crystal tuff with aphanitic light whitish ground mass containing 15-20% phenocrysts of feldspar and quartz, and <3% lapilli. Lapilli are subrounded to subangular, <5cm and predominately QFP showing.. Minor metased, granitoid and sea-green fragments observed. Alteration: Moderate phyllic alteration of ground mass, local patches of groundmass altered to blueish black quartz-sericite-pyrite-moly with or without cpy. Alteration increases at base of unit in contact with granodiorite: lapilli are all mantled by sericite alteration. Mineralization: Pyrite occurs as fine-grained rounded aggregates or crystal disseminated in groundmass. on average pyrite is 5% of groundmass although locally it is up to 30%. Chalcopyrite occasionally occurs within pyrite aggregates, and appears to decrease downhole. Moly occurs within veinlets and altered groundmass. Chalcopyrite occurs with pyrite and become increasingly more abundant toward the base of the unit.				Phyllic 1	m	Iron	w	5	0.2		0.1			
RVD17-08	E. Adlakha						315.2	QSP+Cpy veinlet											
RVD17-08	E. Adlakha						315.42	QSP veinlet											
RVD17-08	E. Adlakha						315.61	QSP veinlet											

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RVD17-08	E. Adlakha						315.96	QSP veinlet											
RVD17-08	E. Adlakha						318.2	QSP+moly veinlet											
RVD17-08	E. Adlakha						318.64	Moly mantling small clast											
RVD17-08	E. Adlakha						319.12	QSP+moly veinlet											
RVD17-08	E. Adlakha						319.5	patch of QSP+cpy											
RVD17-08	E. Adlakha						320.29	patch of QSP+moly											
RVD17-08	E. Adlakha					322.87	329.09	weakly hematized and fractures core - brecciated by sericite alteration											
RVD17-08	E. Adlakha					329.09	338.63	strongly altered crystal-lapilli tuff with sericite rimmed lapilli and patchy quartz-sericite-pyrite +/- moly, cpy altered groundmass											
RVD17-08	E. Adlakha						331.6	dolomite pyrite vein											
RVD17-08	E. Adlakha						333.79	WSP + moly veinlet											
RVD17-08	E. Adlakha					335.2	335.28	dark grey QFP dyke											
RVD17-08	E. Adlakha						337.7												
RVD17-08	E. Adlakha	338.6	410	GRA	Lithology: Medium grained granite containing white plagioclase, pinkish grey Kfeldspar, quartz and biotite/hornblende. Xenoliths or mafic enclaves are common. Alteration: weak to moderate pervasive sericite alteration of feldspars. Earlier QSP +/- cpy, moly veins/veinlets/stringers are cross=cute by later white-clay (sericite?) unmineralized stringers and dolomite-qtz +/- pyrite veins. intense white or green phyllic/argillic alteration locally occurring. Mineralization: Disseminated fine-grained pyrite throughout rock. Rare disseminated molybdenite. Veins/stringers of quartz-/+sericite-/+pyrite sometimes contain small amounts of cpy and/or moly. pyrrhotite more abundant than pyrite toward end of hole.				Phyllic	1	m		5	0.1	0.5	0	0.1		
RVD17-08	E. Adlakha					339.1	340	granite overprinted by bluish black QSP+moly cpy alteration											
RVD17-08	E. Adlakha						340.51	vein of py-cpy-Mo crosscut y sericite stringers											
RVD17-08	E. Adlakha					341.22	341.45	moderate to intense sericitization of feldspar											
RVD17-08	E. Adlakha						341.6	quartz pyrite chalcopyrite vein crosscut by dol vein											
RVD17-08	E. Adlakha						347.62	quartz-chlorite-pyrite-chalcopyrite =/- pyrrhotite vein											
RVD17-08	E. Adlakha						349.1	disseminated Mo											
RVD17-08	E. Adlakha						350.82	quartz pyrite chalcopyrite vein crosscut by white clay vein											
RVD17-08	E. Adlakha						353.23	quartz-cpy vein											
RVD17-08	E. Adlakha						354.44	quartz-cpy vein											
RVD17-08	E. Adlakha						357.9	quartz-cpy vein											
RVD17-08	E. Adlakha					363	365	pervasive green (chloritic?) phyllic alteration											
RVD17-08	E. Adlakha						364.5	quartz-pyrite-molly vein											

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RVD17-08	E. Adlakha						365	QSP+Cpy veinlet											
RVD17-08	E. Adlakha						345.87	quart-pyrite-chalcopyrite veinlet											
RVD17-08	E. Adlakha						347.66	QSP+Cpy veinlet											
RVD17-08	E. Adlakha						271.24	quartz-cpy veinlet crosscut by sericite stringer											
RVD17-08	E. Adlakha					372.35	379.8	strong white clay (kaolinite - argillic?) replacement of feldspar											
RVD17-08	E. Adlakha						372.86	quartz-carb-cpy-Sch vein											
RVD17-08	E. Adlakha						373.35	quartz-cpy veinlet											
RVD17-08	E. Adlakha						375.23	quartz-cpy veinlet											
RVD17-08	E. Adlakha						376.9	pyrrhotite-chalcopyrite vein											
RVD17-08	E. Adlakha						377.5	quartz-moly vein											
RVD17-08	E. Adlakha						383.8	quartz pyrite chalcopyrite vein											
RVD17-08	E. Adlakha						390.7	Cpy stringers											
RVD17-08	E. Adlakha						392.2	Cpy quartz stringers											
RVD17-08	E. Adlakha						393.81	quartz-cpy veinlet											
RVD17-08	E. Adlakha						395.38	quartz-cpy-po veinlet											
RVD17-08	E. Adlakha					396	397.5	6 spaced out quartz chalcopyrite veins, possible biotite alteration at margins											
RVD17-08	E. Adlakha						400.15	quartz-chalcopyrite veinlet											
RVD17-08	E. Adlakha						404	quartz chalcopyrite veinlet											
RVD17-09	D. LeFort	0	38.35	GRA	Granite: Sub-crop, intense oxidation of a medium-coarse grained granodiorite. Broken core, oxidized Py stringers. (4)				Iron	s									
RVD17-09	D. LeFort	38.35	55.88	GRA	Granite: Sub-crop, moderate oxidation of a medium-coarse grained Granite. Megacrystic, Broken core in parts, oxidized Py stringers. (2-3). Some Py stringers are unaltered. QFP Dyklets present, oxidized with 1cm oxidized halo. Chl stringers, clusters throughout. Many fractures are oxidized (2-3).				Iron	m			1						
RVD17-09	D. LeFort					50.4	50.53	Oxidized, silicified Vein-QFP (?) dyke Fe-stained orange-red groundmass with ~mm sized euhedral crystals. 1cm oxidation halos.											
RVD17-09	D. LeFort					52.94	53.02	Oxidized, silicified Vein-QFP (?) dyke Fe-stained orange-red groundmass with ~mm sized euhedral crystals. 1cm oxidation halos.											
RVD17-09	D. LeFort					54.93	55.04	Oxidized, silicified Vein-QFP (?) dyke Fe-stained orange-red groundmass with ~mm sized euhedral crystals. 1cm oxidation halos. Cut by Chl stringers.											

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RVD17-09	D. LeFort	55.88	170.4	GRA	Granite: Medium to coarse grained, megacrystic, fresh to weakly phyllic altered biotite Granite with mafic enclaves and minor Hbl. Mineralization: Qtz-Carb-Cpy-Po-Py stringers-veins are present, often with euhedral crystals of Qtz and interstitial Carb-Cpy-Po-Py. Cpy typically small <1mm irregular blebs. Mo associated with Qtz-Py veins. Chl-Py stringers throughout. Py-+Cpy are present throughout. Qtz veinlets, aplite dyklets and silicified zones are present, occasionally with dark selvages (Chl, dark grey Qtz). Alteration: Intervals of moderate to strong phyllic alteration are present and increase towards the lower contact. Localized potassic (biotite and Kspar) alteration throughout. Chl-Ep stringers locally common, propylitic alteration. Oxidization along fractures up to 82.10m. Hbl often altered to tan-brown purplish colour. Structures: No major structures in this interval				Phyllic 1	w	Potassic	w	1	0	0	0			
RVD17-09	D. LeFort					56	56.1	Silicified Vein-Dyklet, with rare 1-2mm euhedral feldspar crystals. Cut by Qtz-Py, Carb, Chl stringers.											
RVD17-09	D. LeFort						57.56	Qtz-Carb-Cpy (tr) stringer, 1mm, 35 deg tca (classic)											
RVD17-09	D. LeFort						57.76	3cm mafic enclave with disseminated Py											
RVD17-09	D. LeFort					58	58.07	Silicified Vein-Dyklet, with black flecks (<1mm), Cloudy grey-brown											
RVD17-09	D. LeFort						58.7	Py stringer, <1mm low angle smeared, tr Cpy											
RVD17-09	D. LeFort						59.82	Carb-Py stringer, 1mm, cutting Chl-Ep stringers, 1mm 45 deg tca											
RVD17-09	D. LeFort					60.59	60.62	2cm light green (Ep, Chl?) veinlet with blocky, angular mm sized clasts of Qtz											
RVD17-09	D. LeFort						60.93	1cm Qtz veinlet with dark selvages, and small dark flecks, and light grey perpendicular lines											
RVD17-09	D. LeFort						61.6	1cm Qtz veinlet with dark selvages, and small dark flecks, and light grey perpendicular lines											
RVD17-09	D. LeFort						62.9	Qtz-Carb-SS (?) veinlet, 5mm 45 deg tca (classic) with a small <1mm reflective-metallic silver, elongated grain.											
RVD17-09	D. LeFort						64.7	Qtz-Carb-Cpy-Py stringer in broken core											
RVD17-09	D. LeFort						65.58	Qtz-Cpy-Py stringer, ~1mm, diffuse, tr Cpy											
RVD17-09	D. LeFort					66.33	81.06	Interval characterized by common Chl-+Ep stringers, localized patched of biotite alteration as wispy stringers, Kspar alteration halos along veinlets, Aplitic dyklets, Qtz veins-pods, weak phyllic alteration											
RVD17-09	D. LeFort					69.63	69.84	Dense cluster of Bio-Chl(?) stringers, wispy, spiderweb appearance, surrounding a Qtz-Carb-Po-Py veinlet, 3mm, 55 deg tca which cuts a Py (tr Cpy?) stringer											

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RVD17-09	D. LeFort					69.84	70.24	Micrographic dyklet (?): overall cloudy white colour, under handlens, small grey translucent and cloudy white intergrowths. Cut by Qtz-Carb-Py veinlet, 2mm 40 deg tca and common wispy, discontinuous Chl-Ep stringers.											
RVD17-09	D. LeFort					70.24	72.24	Common Bio-Chl stringers, clustered and wispy, with altered mafic minerals <1mm											
RVD17-09	D. LeFort						70.85	Qtz-Carb-Cpy-Py veinlet, 2-3 mm, 40 deg tca cutting Qtz pod with similar properties to the mircogranophyric dyklet @ 69.84m											
RVD17-09	D. LeFort						72.65	Low angle Carb-Py stringer, fractured, clay along fracture and Phyllic alteration halo.											
RVD17-09	D. LeFort						73.15	2cm Qtz-Py vein, angular blocky cm sized crystals or Py, 35 deg tca											
RVD17-09	D. LeFort						75.36	Qtz-Carb-Cpy-Py stringer, 1mm, 40 deg tca tr Cpy											
RVD17-09	D. LeFort						76	Offset 5mm veinlet, Qtz-Kspar cut by dark wispy stringers											
RVD17-09	D. LeFort					76.3	76.35	Kspar veinlet, 1cm 70 deg tca, with clustered bio stringers											
RVD17-09	D. LeFort						77	Kspar alteration, sample for K-spar staining											
RVD17-09	D. LeFort						78.8	Qtz-Kspar pod cut by Qtz-Carb-Py stringer											
RVD17-09	D. LeFort					78.84	82.18	Broken core with oxidized fractures											
RVD17-09	D. LeFort						83.1	Aplitic dyklet 3cm, tan-grey, cut by Chl stringers											
RVD17-09	D. LeFort						83.37	Mo stringer, irregular wispy, <1mm, associated with Chl (?)											
RVD17-09	D. LeFort						83.92	Aplitic dyklet 3cm, tan-white, cut by Chl stringers											
RVD17-09	D. LeFort						86	Qtz-Carb-Py veinlet, 2mm, 30 deg tca, with Kspar halo											
RVD17-09	D. LeFort	`					86.23	Qsp-Carb-Cpy veinlet, wispy, diffuse margin, 2mm 25 deg tca											
RVD17-09	D. LeFort						86.5	Qtz-Cpy-Py stringer, ~1mm, Kspar halo											
RVD17-09	D. LeFort						88.17	Sheeted Qtz veins											
RVD17-09	D. LeFort					89.08	89.35	Qtz-Cpy Veinlet 2cm 70 deg tca, Tr Cpy, Banded section of Silicified and unaltered Granite with high angle Qtz veins											

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RVD17-09	D. LeFort						92.72	Wispy veinlet, wavy parallel to core axis, with clay along fracture surface											
RVD17-09	D. LeFort						94.08	Py-Tr Cpy, smeared stringer											
RVD17-09	D. LeFort						95.5	Qtz-Py Stringer with Kspar halo											
RVD17-09	D. LeFort						96.9	1cm Qtz-Py vein, 30% Py, low angle, 20 deg tca											
RVD17-09	D. LeFort						96.85	Carb-Py veinlet, wispy 2mm, 25 deg tca											
RVD17-09	D. LeFort					97.48	104	Weak-moderate phyllic alteration throughout this interval, overprinting a weak earlier potassic alteration											
RVD17-09	D. LeFort						98.97	Qtz-Carb-Cpy-Py stringer, <1mm Kspar halo 1.5cm											
RVD17-09	D. LeFort						99.16	Qtz-Carb-Cpy-Py-pink-silver mineral, 45 deg tca, 4mm, pink silver mineral is<1mm, angular bleb											
RVD17-09	D. LeFort						102.73	Qtz-Carb-Cpy-Py stringers veinlet, several with varying orientation, 1-4mm thick, tr Cpy											
RVD17-09	D. LeFort						104.25	Aplitic 1cm, 55 deg tca, Kspar along margin											
RVD17-09	D. LeFort						105.3	Chl-Py stringer, 20 deg tca <1mm, with Kspar halo											
RVD17-09	D. LeFort						109.3	K-spar alteration with weak phyllic overprint											
RVD17-09	D. LeFort					109.95	110.7	Interval characterized by moderate-strong phyllic alteration and 2 high angle Qtz-Ser (?) Veinlets, 2cm 75 deg tca											
RVD17-09	D. LeFort						112	Qtz-Cpy-Po veinlet, 4mm, 35 deg tca											
RVD17-09	D. LeFort						114.8	Strong phyllic alteration interval 30 cm											
RVD17-09	D. LeFort					116.45	117.5	Strong phyllic alteration interval											
RVD17-09	D. LeFort					118.6		Structure: Foliated shear zone, Py-Carb vein wispy, foliation mainly observed in altered feldspars											
RVD17-09	D. LeFort						118.53	Qtz-Carb-Py veinlet, parallel tca, 6mm, wispy sheared											
RVD17-09	D. LeFort					119.1	119.19	Aplitic dyklet											
RVD17-09	D. LeFort						125.22	quartz sphalerite chalcopyrite vein											
RVD17-09	D. LeFort						125.41	chalcopyrite-pyrite dissemination	Propylitic	s								feo	10
RVD17-09	D. LeFort						130.5	qtz-carb-pyrite vein cross-cutting siliceous dyke ~15 cm thick	Phyllic	1 s	Iron	w	1					feo	5
RVD17-09	D. LeFort						131.65	hematized pyrite											
RVD17-09	D. LeFort						133.53	quartz-carbonate-chalcopyrite-pyrite vein											

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RVD17-09	D. LeFort					132.1	133.15	moderate pervasive phyllic alteration											
RVD17-09	D. LeFort					134.11	136.4	weak potassic (biotite) alteration											
RVD17-09	D. LeFort						139.4	siliceous (aplite?) aphanitic dyke											
RVD17-09	D. LeFort					141.6	142.9	moderate greenish white pervasive phyllic alteration											
RVD17-09	D. LeFort						140.65	chalcopyrite stringers											
RVD17-09	D. LeFort					146	153	moderate potassic (biotite) alteration											
RVD17-09	D. LeFort						145.13	fine-grained disseminated chalcopyrite											
RVD17-09	D. LeFort						146.67	pyrite-chalcopyrite stringer											
RVD17-09	D. LeFort					146.97	147.1	silicified QFP dyke											
RVD17-09	D. LeFort						147.73	pyrite-chalcopyrite stringer											
RVD17-09	D. LeFort						149.22	quartz-cpy-py veinlet											
RVD17-09	D. LeFort					151.62	151.73	quartz-carb-chalcopyrite-pyrite veinlet											
RVD17-09	D. LeFort						153.49	quartz-pyrite-chalcopyrite veinlet											
RVD17-09	D. LeFort						154	quartz-chalcopyrite-pyrite veinlet											
RVD17-09	D. LeFort					154.35	154.53	moderate white phyllic alteration											
RVD17-09	D. LeFort					156.18	157	moderate-intense white phyllic alteration											
RVD17-09	D. LeFort						158.65	carb-quartz-py-cpy veinlet											
RVD17-09	D. LeFort						159.65	QSP+cpy veinlets											
RVD17-09	D. LeFort					159	160.9	moderate potassic (biotite) alteration											
RVD17-09	D. LeFort					160.45	160.54	siliceous QFP dyke											
RVD17-09	D. LeFort					160.9	162	moderate-intense white phyllic alteration											
RVD17-09	D. LeFort						153.61	quartz-chlorite-chalcopyrite veinlet											
RVD17-09	D. LeFort					162	164.46	moderate potassic (biotite) alteration											
RVD17-09	D. LeFort					163.34	163.48	siliceous QFP dyke											
RVD17-09	D. LeFort					164.46	167.39	moderate-intense white phyllic alteration											
RVD17-09	D. LeFort						164.75	quartz-carb-chalcopyrite-pyrite veinlet											
RVD17-09	D. LeFort						165.62	Qtz-Mo-Py vein, 8cm thick with 1cm Qtz-Mo-Py veinlet in the center, 65 deg tca											
RVD17-09	D. LeFort					168.26	168.46	intermediate QFP dyke											
RVD17-09	D. LeFort	170.4	172.8	GRA	Structure zone: characterized by altered Granite and QFP dyklets, Qtz-Carb-Py-Cpy breccia, noticeable foliation and fault gouge.					2		0.5							
RVD17-09	D. LeFort					170.37	170.52	Phyllically altered QFP dyklet, with mm anhedral to euhedral altered feldspars, and Qtz eyes, light grey-green.											

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RVD17-09	D. LeFort					170.75	170.9	Structure: Breccia. Brecciated Dolomite veins, angular -blocky clasts of pink-dolomite, vuggy, soft dark grey infill (Qtz-Chl?) with mm clasts of dolomite. Cpy occurs as mm irregular blebs, rare.											
RVD17-09	D. LeFort					170.9	172.29	Foliated, strongly phyllically altered Granite with common wispy, often discontinuous Py veinlets and soft, dark-grey (Qtz-Chl?) veinlets throughout.											
RVD17-09	D. LeFort					172.29	172.32	Structure: Fault gouge. Soft, grey clay.											
RVD17-09	D. LeFort					172.66	172.78	Phyllically altered QFP dyklet, with mm anhedral to euhedral altered feldspars, orange-brown.											
RVD17-09	D. LeFort	172.8	238	GRA	Granite: Biotite-bearing, mafic enclaves, megacrystic. Aplitic and QFP dyklets throughout. Mineralization: Qtz-+Carb+-Ser-Py stringers and veinlets throughout. Qtz-Mo+-Py are present in several sections. Qtz-Carb-Cpy-Py-Po are present by rare and distributed throughout, often sheeted. Shear veinlets are present throughout. They usually contain Qtz-Carb and are wispy. Py and Po occur as blebs in mafic enclaves. Alteration: Strong phyllic alteration characterized by white mica-clays, very soft. Green, green-brown moderate alteration throughout. Some intervals of weak to absent phyllic alteration are present. Reddish Fe-rich clays in some strongly altered sections. Weak potassic and propylitic alteration in localized sections. Kspar and biotite alteration occurs around Qtz-Carb stringers-veinlets. Silicification of QFP dykes is observed. Ep occurs in rare stringers. Structures: No major structures observed in this unit				Phyllic	1	s	Potassic	w	1	0.1	0.1	0.1			
RVD17-09	D. LeFort						173.5	1cm Qtz-Mo 45 deg tca, small blebs of Mo along the upper margin of a Qtz veinlet.											
RVD17-09	D. LeFort						176.5	Offset Qtz-Ser-Py veinlet and Qtz veinlet, 2cm and 1cm, 45 deg tca											
RVD17-09	D. LeFort					178.25	178.45	Silicified QFP (?) Brown groundmass, hard (silicified). Mm to cm sized euhedral feldspar crystals, Qtz eyes, phyllically altered.											
RVD17-09	D. LeFort						179	Qtz-Carb-Cpy-Py veinlet, 1cm thick parallel tca											
RVD17-09	D. LeFort					179.67	181.12	1cm Qtz-Ser-Py veinlet, parallel tca 30% Py											
RVD17-09	D. LeFort						183	Qtz-Cpy-Py veinlet, 3mm, 25 deg tca, wavy											
RVD17-09	D. LeFort						183.45	Qtz-Ser vein, 4cm, 45 deg tca, broken core											
RVD17-09	D. LeFort						183.9	Hematite crystal, subrounded, 2mm											
RVD17-09	D. LeFort						184.17	Sheeted aplite dyklets, 60 deg tca, 1.5cm, cut by Py-Carb and Py stringers											
RVD17-09	D. LeFort						184.77	Aplite dyklet, sericite in fractures, cut by Py stringers, 5cm, 65 deg tca											
RVD17-09	D. LeFort						185.5	Qtz-Carb-Cpy-Py veinlet, sheared, wispy margins, 5mm, 40 deg tca, sericite halo											
RVD17-09	D. LeFort						189.05	Aplite dyklet, 2cm, 40 deg tca											

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RVD17-09	D. LeFort						189.2	Aplite dyklet, 2cm, 40 deg tca											
RVD17-09	D. LeFort					189.54	190.18	Strong phyllic alteration, white mica-clays											
RVD17-09	D. LeFort						190.13	Qtz-Carb-Cpy-Py veinlet, sheared, wispy margins, 1mm, 15 deg tca											
RVD17-09	D. LeFort					191.67	193.3	Weak absent phyllic alteration											
RVD17-09	D. LeFort						193.83	Qtz-Cpy-Po-Py veinlet, 1mm, 35 deg tca, diffuse											
RVD17-09	D. LeFort					194.54	194.9	Strong phyllic alteration, white mica-clays											
RVD17-09	D. LeFort					194.9	195.75	3 sheeted Qtz-Carb-Py veinlets over this interval, 40 deg tca 0.5-1.5cm, wispy margins, sheared, clay stringer											
RVD17-09	D. LeFort					198.24	198.45	Silicified QFP dyke, tan-brown, euhedral feldspar crystals, Qtz eyes.											
RVD17-09	D. LeFort					199.54	199.64	Silicified QFP dyke, tan-brown, euhedral feldspar crystals, Qtz eyes. Phyllically altered.											
RVD17-09	D. LeFort					201.36	201.52	Silicified QFP dyke, tan-brown, euhedral feldspar crystals, Qtz eyes. Phyllically altered.											
RVD17-09	D. LeFort						204.45	Qtz veinlet, 40 deg tca, 1cm, biotite halo of 2 cm											
RVD17-09	D. LeFort						204.7	Qtz-Carb-Py-Hem veinlet, 5mm, 50 deg tca											
RVD17-09	D. LeFort					205.5	206.48	Strong phyllic alteration, white mica-clays. Shear Qtz-Carb veinlet, wispy.											
RVD17-09	D. LeFort					212.75	213.09	Mircogranophyric dyklet (?): overall, faint olive colour, under handlens: small grey translucent and cloudy white wormy intergrowths (myrmeketitic?). Cut by Qtz-Feld veinlet 90 deg tca, larger scale intergrowths cut by Qtz stringer, 1mm, 15 deg tca											
RVD17-09	D. LeFort						213.28	Mafic enclave, rounded, 2cm, with blocky irregular Py blebs											
RVD17-09	D. LeFort						213.5	Qtz-Carb-Cpy-Py stringer, 25 deg tca, 1mm											
RVD17-09	D. LeFort						213.82	Ep veinlet											
RVD17-09	D. LeFort							Qtz-Py stringer, 40 deg tca with white and then green sericite halo, 1cm											
RVD17-09	D. LeFort					214.43	214.5	Aplitic dyklet cut but Py stringer, banded dolomite veinlet at upper contact											
RVD17-09	D. LeFort						217.51	Carb-Py stringer, <1mm with clay alteration											
RVD17-09	D. LeFort					220.3	220.5	Qtz-Carb-Py veinlet, sheared broken core											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-09	D. LeFort						221.33	Qtz-Carb-Cpy-Py veinlet, classic, 5mm, 25 deg tca											
RVD17-09	D. LeFort						227	Qtz-Carb-Cpy-Py veinlet, 5mm, 25 deg tca											
RVD17-09	D. LeFort						227.63	Cpy-Py stinger, 2mm, 30 deg tca											
RVD17-09	D. LeFort						227.97	Mafic enclave, 2cm with Po											
RVD17-09	D. LeFort						228.39	Cpy-Py stinger, 1mm, 45 deg tca											
RVD17-09	D. LeFort						228.85	Pinkish staining, rounded											
RVD17-09	D. LeFort						229.47	Aplite dyklet, 1cm, 65 deg tca											
RVD17-09	D. LeFort						229.55	Cpy(?)-Py stringer, <1mm											
RVD17-09	D. LeFort						229.65	Aplite dyklet, 1cm, 65 deg tca											
RVD17-09	D. LeFort						230.3	Tr Cpy in a Py-Chl stringer with dark green halo <1mm											
RVD17-09	D. LeFort					230.5	230.77	K-spar alteration											
RVD17-09	D. LeFort						233.63	Wispy Qtz-Carb-Py veinlets, sheeted, sheared, Massive Po											
RVD17-09	D. LeFort						235.73	Cpy-Py stringer, <1mm diffuse											
RVD17-09	D. LeFort					236.81	236.9	Qtz-Cpy-Py-Mo-Ser vein, clots of Ser, blebs of Mo in dark blue Qtz-Mo stringers, 10cm, 55 deg tca,											
RVD17-09	D. LeFort						237	Qtz-Carb-Cpy-Py veinlet, 85 deg tca, 5mm thick											
RVD17-09	D. LeFort	238	294.4	GRA	Granite: Weak phyllic alteration, increase in Py mineralization, slight increase in Cpy and Po mineralization. Mineralization: Qtz-Carb-Cpy-Po-Py-Ars stringers-veinlets present throughout, commonly with Kspar halos. Py Qtz stringers throughout, common Kspar alteration associated with Qtz-Py-Ser-Chl-Bio stringers. Alteration: Biotite stringers, clusters Kspar alteration halos present, Common purplish aplite dyklets. Tourmaline crystals observed, black, euhedral radiating crystals. Structure: No major structures in this unit.				Phyllic	1 w	Potassic	w	2.5	1	1		ARS	0.05
RVD17-09	D. LeFort						238.79	Qtz-Carb-Cpy-Po-Py veinlet, 5mm, 30 deg tca											
RVD17-09	D. LeFort						240.69	Qtz vein 5cm, with Cpy-Carb stringer											
RVD17-09	D. LeFort						241.13	Aplitic dyklet, 1.5cm, 65 deg tca											
RVD17-09	D. LeFort						241.58	Black radiating crystals, Tourmaline, <1mm											
RVD17-09	D. LeFort						242.6	Aplitic dyklet, 3cm, 65 deg tca											
RVD17-09	D. LeFort						242.8	Qtz-Py veinlet, 5mm, 25 deg tca, with phyllic alteration halo, biotite alteration surrounding											
RVD17-09	D. LeFort					242.9	242.97	Granophyric dyklet											
RVD17-09	D. LeFort						243.1	Tr Cpy in a Qtz-Py veinlet											
RVD17-09	D. LeFort						244.85	Qtz-Carb-Cpy-Py stringer, <1mm, 35 deg tca											
RVD17-09	D. LeFort						245.7	QSP stringer with Kspar alteration halo											
RVD17-09	D. LeFort						246.5	Aplite dyklet											
RVD17-09	D. LeFort					246.9	247.3	Qtz-Cpy-Py-Chl veinlet, 1.5cm, 15 deg tca											
RVD17-09	D. LeFort						247.5	Biotite alteration											
RVD17-09	D. LeFort						247.85	Qtz-Cpy-Py stringer, <1mm											
RVD17-09	D. LeFort					248.3		Qtz-Po stringers <1mm, ~45 deg tca throughout											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-09	D. LeFort						250	Py-Bio stringer with Kspar halo											
RVD17-09	D. LeFort						250.34	Qtz-Carb-Cpy-Py stringer with Kspar halo											
RVD17-09	D. LeFort						251.31	Qtz-Carb-Cpy-Po veinlet 2mm, 45 deg tca											
RVD17-09	D. LeFort						251.8	Qtz-Cpy, stringer, 45 deg tca											
RVD17-09	D. LeFort						253.77	Cpy-Py stringer, <1mm diffuse											
RVD17-09	D. LeFort						253.9	Qtz-Cpy-Py stringer											
RVD17-09	D. LeFort					253.2	253.55	3 Aplite dyklets, cut by microfaults, 65 deg tca, 10, 4 and 4cm thick											
RVD17-09	D. LeFort						253.9	Qtz-Cpy-Py veinlet, 3mm, 25 deg tca											
RVD17-09	D. LeFort						256.13	Qtz-Carb-Cpy-Po classic, 5mm. 40 deg tca											
RVD17-09	D. LeFort						256.2	Coarse grained Qtz-Feld interval with mafic enclaves, unaltered											
RVD17-09	D. LeFort						260.95	Aplitic dyklet, 2cm, 40 deg tca											
RVD17-09	D. LeFort						261.6	Qtz-Cpy-Py veinlet, 20 deg tca, 1cm											
RVD17-09	D. LeFort						262.3	Qtz-Cpy-Po, 40 deg tca, 2mm											
RVD17-09	D. LeFort						264.9	Qtz-Cpy-Ars veinlet, 45 deg tca 1mm											
RVD17-09	D. LeFort						265.53	Qtz-Carb-Cpy-Po classic, 2mm, 35 deg tca											
RVD17-09	D. LeFort						266.5	K-spar alteration with Phyllic overprint											
RVD17-09	D. LeFort						266.8	Cpy-Py stringer 40 deg tca, 2mm, Kspar halo											
RVD17-09	D. LeFort					267	268	Potassic alteration, QSP stringers											
RVD17-09	D. LeFort						268.8	Py-Chl-Tr Cpy 45 deg wispy											
RVD17-09	D. LeFort						270.45	Tr Cpy											
RVD17-09	D. LeFort					272.3	273.05	Kspar alteration											
RVD17-09	D. LeFort						272.5	Carb-Cpy-Py, <1mm, 45 deg tca											
RVD17-09	D. LeFort						272.78	Chl stringer, <1mm, 25 deg tca with Kspar halo											
RVD17-09	D. LeFort					272.9	273.05	Kspar-Biotite alteration											
RVD17-09	D. LeFort					273.26	273.48	Silicified QFP dyklet, Qtz eyes											
RVD17-09	D. LeFort						278.89	25cm silicified QFP dyklet											
RVD17-09	D. LeFort						280.1	Qtz-Carb-Cpy-Py, 2mm, 25 deg tca											
RVD17-09	D. LeFort					281.84	282.2	Kspar altered zone, Ep-Chl stringers, megacrystic towards base with mafic enclaves with disseminated Po											
RVD17-09	D. LeFort						283.43	5cm QFP dyklet, Kspar alteration with early Kspar alteration along stringer, and silicified											
RVD17-09	D. LeFort						285.7	Qtz-Cpy-Py stringer, 45 deg tca, 3mm											
RVD17-09	D. LeFort						286	Qtz-Carb-Cpy-Py, 6mm, 35 deg tca											
RVD17-09	D. LeFort						286.1	Qtz-Cpy(?)-Po 1mm, wavy, 45 deg tca											

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RVD17-09	D. LeFort						286.65	Biotite-Cpy-Py stringer, <1mm, 30 deg tca											
RVD17-09	D. LeFort						286.95	Qtz-Carb-Cpy-Py 1-2mm, wispy margins, 30 deg tca											
RVD17-09	D. LeFort						287.35	Qtz-Carb-Cpy-Py 1mm, wispy margins, 30 deg tca											
RVD17-09	D. LeFort					290.6	293	Moderate phyllic alteration, whitish-yellow tan											
RVD17-09	D. LeFort						291.63	Qtz-Cpy-Py 1mm 45 deg tca											
RVD17-09	D. LeFort						292.05	Qtz-Carb-Cpy-Py veinlet, 6mm, 30 deg tca											
RVD17-09	D. LeFort					294	294.4	Qtz-Carb-Cpy-Py stringers, ~1mm, 30 deg tca sheeted											
RVD17-09	D. LeFort	294.4	303.4	GRA	Granite: Moderate to strong phyllic alteration, characterized by intervals of thick Qtz veining. Qtz-Carb-Ser veins are present, Ser often wispy. Mineralization: Qtz-Carb-Cpy-Po-Py-Sph? Stringers-veinlets throughout. Wispy, sheared Qtz-Chl-Py-Carb veinlets are present. Alteration: Strong phyllic alteration white mica-clays with sporadic dark green crystals. Structure: No major structures are present.				Phyllic	1	s		3	1	1				
RVD17-09	D. LeFort						294.55	Qtz-Ser-Hem veinlet											
RVD17-09	D. LeFort						294.63	Qtz-Cpy-Py-Sph (?) veinlet, 40 deg tca, 1cm											
RVD17-09	D. LeFort					295.27	295.43	Grey-Blue translucent, Qtz vein wisps of Ser, 65 deg tca, cut by low angle Carb stringer, Carb stringer cut by dark Qtz veinlet 75 deg tca, 1cm with angular blocky clasts of Py, Py-Qtz stringers											
RVD17-09	D. LeFort					243.43	298	Strong phyllic alteration, white mica clays, sporadic dark green crystals											
RVD17-09	D. LeFort						298.05	Wispy Qtz-Chl-Py veinlet, 5mm, 40 deg tca											
RVD17-09	D. LeFort						299.45	Qtz-Cpy-Po-Py veinlet, 1cm, parallel tca, cm sized clots of Py throughout											
RVD17-09	D. LeFort						299.9	Qtz-Cpy-Py 1cm, 25 tca, cm sized clots of Py throughout											
RVD17-09	D. LeFort						300.5	Qtz-Carb-Cpy stringer, 85 deg tca, <1mm											
RVD17-09	D. LeFort						300.75	Qtz-Cpy-Py veinlet, 1cm, 25 deg tca, cm sized clots of Py throughout, truncated by massive silica flooded interval.											
RVD17-09	D. LeFort					300.94	302.3	Parallel running Qtz vein, with small amounts of Cpy-Py-Po-Carb-Ser disseminated throughout, contact with GRA is mostly parallel with core axis											
RVD17-09	D. LeFort						302.4	Wispy Carb veinlet, 2mm, 45 deg tca with adjacent clots of fine grained Py (Ars?)											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-09	D. LeFort	303.4	387.2	GRA	Granite: Absent-weak phyllic alteration, strong along clay filled fractures. Mineralization: Kspar alteration along Qtz-Carb-Cpy-Po-Py stringers-veinlets present. A veinlet with small blebs of Mo (?) was observed. Mo also occurs with Py in stringers. Mo paint observed on several fractures. Qtz-Chl veins with Biotite halos are present. Carb veinlets throughout. Common purplish aplite dyklets, felsic, granophyric, QFP dyklets throughout (cut by mineralized veins. Magnetite in unaltered portions of GRA, tends to cluster, aligned in some cases (1-3mm, euhedral crystals). Alteration: Intervals of weak phyllic alteration present throughout, strong phyllic alteration as halos along fractures. Some strong-intense phyllic altered intervals are present. QSP veinlets present. Intervals of weak potassic alteration is observed. A foliated interval with abundant, biotite and magnetite, cut by Q-Carb, Py veinlet with phyllically altered Kspar halo. Ep crystals present but rare. Structures: Brecciated Py with grey Carb infill present.				Phyllic 1	w	Potassic	w	3	1	1	1.5		
RVD17-09	D. LeFort						304.31	Qtz-veinlet with Biotite halo											
RVD17-09	D. LeFort						304.8	Strong phyllic alteration along clay filled fracture											
RVD17-09	D. LeFort						307.52	Qtz-Chl veinlet, 7mm, 70 deg tca with Biotite halo											
RVD17-09	D. LeFort						308.85	Cpy-Py stringers, 35 deg tca											
RVD17-09	D. LeFort						309	Biotite stringer, 45 deg tca, <mm, in megacrystic interval cut by Carb stringer, Kspar alteration											
RVD17-09	D. LeFort						309.87	Qtz-Cpy-Po stringer, irregular, Kspar halo											
RVD17-09	D. LeFort						311.9	Low angle Carb veinlet, 25 deg tca, Kspar alteration											
RVD17-09	D. LeFort						315.1	Mo-Carb (?) Stringer, <1mm 45 deg tca											
RVD17-09	D. LeFort						315.45	Qtz-Carb-Cpy veinlet, 1cm, 45 deg tca, phyllic alteration halo											
RVD17-09	D. LeFort						316.4	Carb-Cpy-Py stringer cutting Aplite dyklet (QFP, Qtz eyes present?)											
RVD17-09	D. LeFort						317.26	Cpy-Py stringer, 35 deg tca, 2mm											
RVD17-09	D. LeFort						318	Kspar alteration 30 cm											
RVD17-09	D. LeFort						318.42	Po-Py 45 deg tca, crisscrossing stringers											
RVD17-09	D. LeFort						319.43	Qtz-Py Bio stringer 90 deg tca, 2mm											
RVD17-09	D. LeFort						319.9	Qtz-Carb-Cpy-Py stringer, <1mm, 35 deg tca											
RVD17-09	D. LeFort					320.04	320.83	Qtz veins, wispy biotite-Py stringers throughout, ~45 deg tca											
RVD17-09	D. LeFort					321.42	322.41	Moderate phyllic altered interval, greenish mica clays											
RVD17-09	D. LeFort						321.8	Brecciated Py clots, elongated rounded, associated with grey Carb matrix											
RVD17-09	D. LeFort						329.44	Qtz-Carb-Cpy-Py classic, 35 deg tca, 4mm											
RVD17-09	D. LeFort						330.06	Qtz-Ser-Py veinlet, 50 deg tca, within 6cm Aplite dyklet (granophyric intergrowths)											
RVD17-09	D. LeFort						331.92	Discontinuous biotite stringer											
RVD17-09	D. LeFort						334.09	Qtz (fine grained)-biotite breccia veinlet, with rounded clasts of GRA, 20 deg tca, 1cm											
RVD17-09	D. LeFort						334.18	Qtz-Cpy-Py, 20 deg tca, 1mm											

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RVD17-09	D. LeFort						336	Qtz-Py-Mo veinlet, 35 deg tca, 7mm											
RVD17-09	D. LeFort						337.43	Chl-Bio stingers, 25 deg tca, 2mm											
RVD17-09	D. LeFort						337.71	Qtz-Cpy-Py wispy, 1mm, 40 deg tca, Kspar halo 1.5 cm											
RVD17-09	D. LeFort						338.75	Py-Tr Cpy stringer											
RVD17-09	D. LeFort						339.5	Qtz-Bio-Tr Cpy-Py-Mo(?) stringer, 35 deg tca, 3mm, Qtz-Bio-Chl stringer with Kspar halo											
RVD17-09	D. LeFort						341.05	Py-Tr Cpy stringer											
RVD17-09	D. LeFort					341.68	343.15	Strong phyllic alteration, white clays. Aplite dyklet brownish-purple at upper contact											
RVD17-09	D. LeFort						344.52	Qtz-Cpy-Py-Mo(?) veinlet, 1cm, 1cm clots of Py, <1mm square blebs of blue-silver mineral, soft											
RVD17-09	D. LeFort					347	351.25	Strong phyllic alteration, white, light green, dark green mica-clays. Carb-Py stingers throughout. Aplite dyklets throughout. Bottom meter is intensely altered and very soft											
RVD17-09	D. LeFort					350.52	350.65	Structure: Fault gouge. Soft, grey clay, mm angular clasts of altered Granite.											
RVD17-09	D. LeFort						353.07	Qtz-Carb-Py veinlet, 1cm 90 deg tca cutting Carb-py											
RVD17-09	D. LeFort					356.1	358.4	Moderate phyllic alteration, greenish mica-clays											
RVD17-09	D. LeFort					356.98	357.32	Aplite-Felsic dyklet, cut by Carb-Py stringers, phyllic altered											
RVD17-09	D. LeFort					357.85	357.52	Strong phyllic altered interval, soft											
RVD17-09	D. LeFort						359.3	Qtz-Carb-Po-Py veinlet, 45 deg tca, 3mm											
RVD17-09	D. LeFort						357.7	Qtz-Cpy stringer, 45 deg tca, <1mm											
RVD17-09	D. LeFort					360.52	360.74	Felsic-QFP dyklet, light brown-tan center, 40 deg tca											
RVD17-09	D. LeFort						361.25	Py-Mo stringer, <1mm, 35 deg tca											
RVD17-09	D. LeFort						362.39	Py-Cpy stringer, irregular											
RVD17-09	D. LeFort						363.1	Qtz-Cpy-Py stringer, 20 deg tca, <1mm											
RVD17-09	D. LeFort						363.6	Py stringer, diffuse, 40 deg tca, <1mm Kspar halo											
RVD17-09	D. LeFort						364.12	Qtz-Carb-Cpy-Py veinlet, 10 deg tca, 2mm											
RVD17-09	D. LeFort						365.15	Qtz-Carb-Cpy-Py veinlet, 25 deg tca, 3mm, sericite halo											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-09	D. LeFort					365.35	365.48	QFP-Aplitic dyklet, incorporating Qtz from GRA?											
RVD17-09	D. LeFort						367.6	Qtz-Chl veinlet with Bio halo											
RVD17-09	D. LeFort						367.3	Py-Hem stringer, <1mm 45 deg, sericite halo											
RVD17-09	D. LeFort						368.75	Cpy-Po smeared stringer											
RVD17-09	D. LeFort					369.3	369.63	Aplite dyke											
RVD17-09	D. LeFort						369.93	Q-C-Cpy-Py v, 7mm, 40 deg											
RVD17-09	D. LeFort						370.45	MegaX with inclusions of Mgt											
RVD17-09	D. LeFort						371.76	Cpy-Py stringer cutting aplite dyklet, 30 deg, <1mm											
RVD17-09	D. LeFort						372.11	Cpy-Py-Mo stringer, <1mm, 25 deg, Kspar halo											
RVD17-09	D. LeFort						372.12	Moly paint, 55 deg											
RVD17-09	D. LeFort						372.9	Moly paint, 55 deg											
RVD17-09	D. LeFort					374.3	374.45	Py-Chl-Hem stringers,~1mm, 40 deg											
RVD17-09	D. LeFort						374.95	Qtz-Py-Mo v, 2mm, 45 deg											
RVD17-09	D. LeFort					375.5	375.6	Granophyric dyklet, 5cm, QSP stringer, 45 deg tca											
RVD17-09	D. LeFort						376	QSP-Hem stringer											
RVD17-09	D. LeFort						377.75	Weak Kspar alteration											
RVD17-09	D. LeFort					378.05	378.54	QFP dyklet, phyllic altered crystals, cut by Qtz veinlets, diss Cpy											
RVD17-09	D. LeFort					378.83	379.07	Aplite dyklet, cut by Carb-Py, upper contact incorporates Granite											
RVD17-09	D. LeFort						379.7	Qtz-Cpy stringer, 40 deg, 1mm											
RVD17-09	D. LeFort						380.05	Ep crystal 2mm											
RVD17-09	D. LeFort						380.3	Q-Cpy-Py stringer, Kspar halo											
RVD17-09	D. LeFort						382.2	Tr Cpy											
RVD17-09	D. LeFort						382.45	Qtz-Cpy, 40 deg, 2mm											
RVD17-09	D. LeFort						383.85	Qtz-Carb-Cpy veinlet, 3mm, 35 deg tca											
RVD17-09	D. LeFort					383.17	383.46	Foliated interval with abundant, biotite and magnetite, cut by Q-Carb, Py veinlet with phyllically altered Kspar halo											
RVD17-09	D. LeFort						383.66	Tr Cpy											
RVD17-09	D. LeFort						384.1	Tr Cpy											
RVD17-09	D. LeFort						384.85	Q-Carb-Cpy-Py v, 3mm, 40 deg tca											
RVD17-09	D. LeFort						385.15	Cpy-Py stringer, 25 deg											
RVD17-09	D. LeFort					385.7	386.3	Abundant mafic enclaves											
RVD17-09	D. LeFort	387.2	394.5	GRA	Granite and Dykes: Mixing zone between Granite and felsic, QFP dykes, chaotic zone with moderate to strong phyllic alteration. Interval has characteristics of Granite and QFP dykes, patches of fine grained groundmass with crystals of feldspars and qtz eyes and patches of altered Granite, Some portions are cut by dykes, pegmatites and fine-grained aplites. Dykes are cut by QSP veins. Qtz-Carb-Py-Mo veinlets are present. Radiating tourmaline crystals are present in diffuse.				Phyllic	1	s	2	1		1			
RVD17-09	D. LeFort					387.16	387.6	Granophyric-aplitic dyke along margins with pegmatite in the center, large crystals of Qtz-Feld, cut by Qtz-Ser-Py stingers											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-09	D. LeFort						388.16	Qtz-Carb-Py v, 1cm, 90 deg											
RVD17-09	D. LeFort					388.55	388.59	Aplite dyklet											
RVD17-09	D. LeFort					390.7	390.8	Aplite dyklet											
RVD17-09	D. LeFort						390.85	Carb-Mo-Py v, 2-3mm, wispy, 40 deg											
RVD17-09	D. LeFort						393.37	Qtz-Py smeared, Qtz-Carb vein (?)											
RVD17-09	D. LeFort						393.75	Tourmaline crystals, occurring within diffuse stringer, radiating crystals											
RVD17-09	D. LeFort	394.5	402.5	GRA	Granite: Strong phyllic altered Granite. Mineralization: Qtz-Carb-Py shear veins, with dark grey Qtz, pinkish Carb. Qtz-Carb-Cpy-Py-Mo (?). Alteration: Phyllic alteration, white, tan, green mica clays.				Phyllic	1 s			2	0.1		0.1			
RVD17-09	D. LeFort						396.7	Qtz-Carb-Py shear vein, dark grey Qtz, wispy 45 deg, 6mm											
RVD17-09	D. LeFort						397.18	6cm, Dark grey Qtz, pinkish Carb and Py, brecciated and healed clast of GRA in Carb infill											
RVD17-09	D. LeFort						398.97	Qtz-Mo(?) veinlet, 60 deg 1mm											
RVD17-09	D. LeFort						399.66	Cpy-Py Qtz stringer, low angle, smeared											
RVD17-09	D. LeFort	402.5	411	GRA	Granite: Moderate phyllic alteration. Carb Breccia at upper contact, Cpy-Mo bearing. Mod-strong phyllic alteration for base of the unit. Carb-Py stringers, Aplite dyklet cut by Carb stringer. Mod phyllic green clays, strong phyllic white clays.				Phyllic	1 m			2	1		0.5			
RVD17-09	D. LeFort					402.47	405.7	Low angle breccia zone. Intense Carb veining around mm to cm sized angular clasts of GRA and brecciated Qtz-Carb veins. Cpy present in diffuse veinlets. Dark grey-Blue wispy Qtz veins present throughout breccia. Broken core and fault gouge at lower contact.											
RVD17-09	D. LeFort						402.8	Cpy-Qtz-Carb wispy discontinuous vein											
RVD17-09	D. LeFort						403.18	Cpy-Py in brecciated veinlet in breccia, Mo found on broken core axis.											
RVD17-09	D. LeFort						403.31	Blebs of Cpy-Py in carb breccia, mm rounded											
RVD17-09	D. LeFort	411	420	GRA	Granite: Weak phyllic alteration. Mineralization: Qtz-Carb-Cpy-Py veinlets, very low angle. Qtz-Carb-Cpy-Mo veinlets, high angle. QSP veinlets, Carb-Py veinlets. Alteration: Weak phyllic alteration, Qtz vein with Biotite halos, rare Ep crystals. EOH														
RVD17-09	D. LeFort					411.5	413.25	Very low angle Qtz-Carb-Cpy-Py veinlets, 0-3 deg tca, 1-2mm, may give anomalous high assay result.	Phyllic	1 w	Potassic	w	1.5	0.5		0.5			
RVD17-09	D. LeFort						414.7	Qtz-Chl veinlet with biotite halo											
RVD17-09	D. LeFort						417.4	Qtz vein with biotite halo											
RVD17-09	D. LeFort						418.12	Qtz-Carb-Cpy-Mo v, 2mm, wispy 60 deg											
RVD17-09	D. LeFort						418.17	Qtz-Carb-Cpy-Mo v, 2mm, wispy 60 deg, discontinuous											
RVD17-09	D. LeFort						419.32	Ep crystal 1mm											
RVD17-10	E. Adlakha	0	36	OVB	Overburden / tillite														

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-10	E. Adlakha	36	97.9	TUF	Lithology: Weathered, buff-orange, crystal tuff. Phenocrysts of feldspar and quartz comprise 15-25% of rock, whereas altered clasts of QFP (lesser granitoid, and hematite clasts) comprise <5%. Alteration: Rocks are pervasively altered by intense limonite/ Fe-hydroxides and cream-tan colored clay. Core is broken and fragments, and gouged. Mineralization: Pyrolusite is common and occurs as disseminated or as dendrites. Rare malachite was observed. hematite clasts grade into pyrite clasts with hematite rims at approximately 70 m.				Iron	I									
RVD17-10	E. Adlakha						55.88	malachite aggregates											
RVD17-10	E. Adlakha					67	69	lapilli rich zone											
RVD17-10	E. Adlakha						78	possible chalcopyrite in oxidized fine-grained pyrite aggregates/clasts											
RVD17-10	E. Adlakha						90.22	possible cpy in oxidized aggregated of pyrite											
RVD17-10	E. Adlakha	97.9	150.6	TUF	Lithology: Fine-grained crystal tuff containing 25% phenocrysts of feldspar and quartz, and <5% lapilli of predominately quartz and/or feldspar porphyry, with lesser granitoid, sea-green altered clasts and rounded aggregates of sulfide (pyrite). The groundmass is light grey and aphanitic. Sulfide aggregates appear to replaced phenocrysts and/or lapilli. Alteration: Phyllic alteration is pervasive but weak in intensity, whereby sericite replaces feldspar phenocrysts and groundmass and pyrite replaces clasts and phenocrysts. Mineralization: Pyrite occurs as aggregates replacing clasts and phenocrysts, disseminated fine-grained crystals in groundmass, and coating of euhedral crystals on fracture and infilling veins. Chalcopyrite occurs as rare blebs with pyrite aggregates in groundmass. fine-grained molybdenite disseminated in groundmass				Phyllic 1	w			1	0		0.1			
RVD17-10	E. Adlakha						103.36	pyrite aggregate with chalcopyrite (photo)											
RVD17-10	E. Adlakha					103.4	105.92	oxidized zone, fractures and gouged											
RVD17-10	E. Adlakha						108.1	pyrite along fracture											
RVD17-10	E. Adlakha						121.44	pyrite along fracture											
RVD17-10	E. Adlakha						129.3	pyrite replacing lapilli (photo)											
RVD17-10	E. Adlakha					131.74	131.81	gouge of black clay and pyrite											
RVD17-10	E. Adlakha						133.75	pyrite on fracture											
RVD17-10	E. Adlakha	150.6	168	TUF	Lithology: Same unit as above but brecciated by clay-pyrite-molybdenite veins and matrix. Lots of broken core and gouge indicating fault zone. Alteration: Strong clay alteration with hematized area from 154.40 to 158 m. Clay is black-blue due to molybdenite. Mineralization. Pyrite and molybdenite occur as disseminations in brecciate clay matrix. Rare chalcopyrite occurs with pyrite				Phyllic 1				5	0.1		0.5			
RVD17-10	E. Adlakha	168	216.2	TUF	Lithology: Fine-grained crystal tuff containing 25% phenocrysts of feldspar and quartz, and <5% lapilli of predominately quartz and/or feldspar porphyry, with lesser granitoid, sea-green altered clasts and rounded aggregates of sulfide (pyrite). Large (>10 cm) QFP and granitoid lapilli toward the end of the unit altered to blue (molly-rich) and white-green clay. The groundmass is light grey, where not hematized, and aphanitic. Sulfide aggregates appear to replace phenocrysts and/or lapilli. Alteration: Early hematization occurs locally at the beginning of the unit. Phyllic alteration is pervasive but weak in intensity, whereby sericite replaces feldspar phenocrysts and groundmass and pyrite replaces clasts and phenocrysts. Sericite +/- quartz, pyrite, molly stringers and veinlets cross-cut the rock. Some cm scale patchy groundmass alteration of quartz-sericite-pyrite+molly toward the end of the unit. Mineralization: Pyrite occurs as aggregates replacing clasts and phenocrysts, disseminated fine-grained crystals in groundmass, and coating of euhedral crystals on fracture and infilling veins. Chalcopyrite occurs as rare blebs with pyrite aggregates in groundmass and sometimes in QSP stringers. Fine-grained molybdenite is disseminated in groundmass and within sericite stringers				Phyllic 1	w	iron	w	1	0		0.1			
RVD17-10	E. Adlakha					172	127.8	oxidized zone crosscut by sericite stringers											
RVD17-10	E. Adlakha						177	sericite-molly stringers (photo)											
RVD17-10	E. Adlakha						183.15	chalcopyrite in pyrite aggregate											
RVD17-10	E. Adlakha						186	cpy-molly wrapping around QFP clast (photo)											
RVD17-10	E. Adlakha						194.2	chalcopyrite in pyrite aggregate											
RVD17-10	E. Adlakha						194.7	chalcopyrite in pyrite aggregate											
RVD17-10	E. Adlakha					192.49	192.64	QFP dyke											
RVD17-10	E. Adlakha						204.46	QSP+moly+cpy stringer											

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RVD17-10	E. Adlakha					205.38	205.48	brecciated crystal tuff with groundmass and matrix of blue black quartz-sericite-pyrite-molly											
RVD17-10	E. Adlakha	216.2	248.3	TUF	Lithology: Lapilli-rich tuff pseudobreccia containing large (2 to 20 cm) clasts of rounded pinkish silicified QFP and pink/blue granitoid, and angular quartz clasts. Pseudo-brecciated by stringers. Intercalated with lower unit - no clear contact. Alteration: Lapilli are weakly altered by early pink hematite. The groundmass is moderately altered by later pervasive phyllic alteration (photo at 216.60). Lapilli and groundmass are cross-cut by fine quartz veinlets and then later sericite +/-quartz+/-pyrite-/+molybdenite+/-chalcopyrite. Local dol-qtz veins brecciated by QSP-moly-cpy Mineralization Quartz lapilli commonly contain or are mantled by molybdenite and pyrite (photo at 233 m). Molybdenite also in sericite stringers with pyrite or replacing groundmass. Metallic crystals of molybdenite not observed, just dark black-blue disseminations in quartz/clay.				Phyllic 1	m	iron	w	2	0.1		0.5	0		
RVD17-10	E. Adlakha						221.2	chalcopyrite in pyrite aggregate											
RVD17-10	E. Adlakha						221.39	chalcopyrite-pyrite-molly altering groundmass (photo)											
RVD17-10	E. Adlakha						226.37	dol-qtz vein brecciated by clay-quartz-moly vein (photo)											
RVD17-10	E. Adlakha					233.59	234.5	cpy in py-moly aggregates											
RVD17-10	E. Adlakha						247.8	small patch of disseminated scheelite											
RVD17-10	E. Adlakha						248.21	quartz-ep-cpy veinlet											
RVD17-10	E. Adlakha	248.3	318	GRA	Lithology: Dark grey medium grained granite containing ~45% plag, 30% quartz 20% mafics and 5% feldspar. Mafic enclaves are common. Alteration: Moderately silicified evident by hardness, sharp fractures and "pinging" noise when struck by hammer Patches of weak-moderate phyllic alteration. Cross-cut by a variety of stringers and veinlets predominately early chl- quartz +/- py, cpy, and later quartz-sericite +/- py, cpy. Early dolomite veins are brecciated by later QSP+/- cpy veinlets (photo). Mineralization increases toward base of unit before brecciation.				Phyllic 1	w	silica	m	1	0.1		0.1	0		
RVD17-10	E. Adlakha					248.71	250.45	moderate pervasive phyllic alteration											
RVD17-10	E. Adlakha					251.9	252	quartz "vein" or complete silicification of granite containing pyrite-cpy											
RVD17-10	E. Adlakha						252.4	QSP+cpy and carb veinlet											
RVD17-10	E. Adlakha						253.68	low angle QSP+cpy vein											
RVD17-10	E. Adlakha						255.55	Qtz-bt-cpy stringers											
RVD17-10	E. Adlakha						256	Quartz-cpy veinlet											
RVD17-10	E. Adlakha						256.65	Quartz-cpy veinlet											
RVD17-10	E. Adlakha						256.95	quartz-chalcopyrite											
RVD17-10	E. Adlakha						260.8	carb vein brecciated by QSP+cpy											
RVD17-10	E. Adlakha					261.32	261.36	quartz vein											
RVD17-10	E. Adlakha						261.55	chalcopyrite-pyrite aggregate											
RVD17-10	E. Adlakha						262.3	chalcopyrite-pyrite aggregate											
RVD17-10	E. Adlakha						262.77	carb vein brecciated by QSP+cpy											
RVD17-10	E. Adlakha						263.1	moly-cpy veinlets cross-cutting quartz veinlets (photo)											
RVD17-10	E. Adlakha						266	cpy-pyrrhotite bleb											
RVD17-10	E. Adlakha						266.67	cpy-pyrrhotite bleb surrounded by chlorite											
RVD17-10	E. Adlakha					266.6	268.6	moderate pervasive phyllic alteration											

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RVD17-10	E. Adlakha						269.35	cpy veinlet											
RVD17-10	E. Adlakha					271.55	279.33	Feldspar porphyry dyke with dark grey groundmass containing large blocks of granite											
RVD17-10	E. Adlakha					277.65	278	moderate pervasive phyllic alteration											
RVD17-10	E. Adlakha					278	286.25	moderate pervasive phyllic alteration											
RVD17-10	E. Adlakha						279.55	quartz-moly-cpy vein (photo)											
RVD17-10	E. Adlakha					284.15	284.21	biotite porphyry dyke											
RVD17-10	E. Adlakha					285.6	285.9	low angle Chl-py-cpy veinlet											
RVD17-10	E. Adlakha					286.56	286.63	microbreccia with black hard matrix											
RVD17-10	E. Adlakha					288.95	292.52	moderate pervasive phyllic alteration											
RVD17-10	E. Adlakha						291.15	quartz-moly-cpy vein											
RVD17-10	E. Adlakha						291.85	quartz-moly veinlet											
RVD17-10	E. Adlakha						295	cpy stringer											
RVD17-10	E. Adlakha					297.18	300	weak potassic (biotite and K-feldspar) alteration											
RVD17-10	E. Adlakha					304.3	306.45	moderate pervasive phyllic alteration											
RVD17-10	E. Adlakha					307.35	318	moderate pervasive phyllic alteration											
RVD17-10	E. Adlakha						309.75	cpy-chl stringer											
RVD17-10	E. Adlakha						309.95	quartz-sericite-moly vein											
RVD17-10	E. Adlakha						312	quartz pyrite moly vein											
RVD17-10	E. Adlakha						312.63	quartz-pyrite-pyrrhotite-sphalerite-cpy vein (photo)											
RVD17-10	E. Adlakha						316.54	disseminated scheelite											
RVD17-10	E. Adlakha						317.5	pyrite-chalcopyrite stringers											
RVD17-10	E. Adlakha	318	326.7	GRA	Lithology: Same unit as above but granite is brecciated by veinlets of QSP+/-moly (moly inferred by blue-black colour of clay - photo at 318.16). Alteration: Moderate pervasive phyllic alteration - replacement of feldspars by sericite, rock cross-cut by QSP +/- moly veinlets and stringers. Mineralization: Pyrite and molybdenite disseminated in clay matrix. Chalcopyrite rare.				Phyllic 1	m			3	0.1		0.1			
RVD17-10	E. Adlakha					320.51	320.71	QFP dyke (photo)											
RVD17-10	E. Adlakha	326.7	353.5	TUF	Lithology: Fine-grained crystal tuff containing 25% phenocrysts of feldspar and quartz, and <5% lapilli of predominately quartz and/or feldspar porphyry, and rounded sulfide clasts (pyrite +/- chalcopyrite) rimmed with dark blue mineral (tourmaline? - photo). The groundmass is light grey and aphanitic. Alteration: Phyllic alteration is pervasive but weak in intensity, whereby sericite replaces feldspar phenocrysts and groundmass. Dolomite occurs in veins throughout unit. QSP+/- moly stringers (about 1 every meter, 45 deg TCA) cross-cut unit Mineralization: Pyrite occurs as aggregate clasts. Chalcopyrite occurs as rare blebs with pyrite aggregates in groundmass. Fine-grained molybdenite is disseminated in groundmass and within sericite stringers. Mineralization increases within sulfide structural breccias toward the end of unit				Phyllic 1	w			1	0.1		0.1	0		
RVD17-10	E. Adlakha					329.5	330.5	disseminated scheelite											
RVD17-10	E. Adlakha					335.67	342	structural zone with fractured/brecciated core											
RVD17-10	E. Adlakha					340	341.7	brecciated crystal tuff by dolomite veins											
RVD17-10	E. Adlakha					342	348	structural zone with fractured core, fracture are 60 and 130 deg TCA											

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RVD17-10	E. Adlakha					348.37	349.21	crystal tuff is brecciated with a matrix of QSP + cpy + sphalerite											
RVD17-10	E. Adlakha						349.14	aggregate of pyrite, chalcopyrite, pyrrhotite and sphalerite											
RVD17-10	E. Adlakha					352.44	253.05	crystal tuff is brecciated with a matrix of QSP + cpy + sphalerite											
RVD17-10	E. Adlakha	353.5	388.6	GRA	Lithology: Medium grained granite containing rare QFP clasts Alteration: Moderate phyllic alteration. Cross-cut by a variety of stringers and veinlets predominately quartz-sericite +/- py, cpy and dolomite +/- quartz, pyrite, chalcopyrite. biotite and chlorite stringers occur toward the bottom of the unit. Mineralization: sulfide mineralization occurs as pyrite and trace chalcopyrite in stringers/veins (commonly 45 deg TCA) and as replacement of granite in patches. Dark brown sulfide, possibly sphalerite but likely pyrite based on hardness, occurs in replacement style sulfides patches and irregular veins.				Phyllic	1	m		1	0		0	0		
RVD17-10	E. Adlakha						353.95	replacement of granite by sulfide patch/ irregular veins of pyrite, chalcopyrite and brown mineral (poss. Sphalerite but likely pyrite) photo											
RVD17-10	E. Adlakha						354.45	2 cm veins of sulfide containing phenocrysts of feldspar (photo)											
RVD17-10	E. Adlakha					356.5	355.85	QSP veinlet along core axis											
RVD17-10	E. Adlakha						358.53	QSP+cpy veinlet at 45deg TCA											
RVD17-10	E. Adlakha						358.9	QSP+cpy veinlet 90 deg TCA											
RVD17-10	E. Adlakha						359.2	2 cm vein 90 deg TCA of sulfide (pyrite) brecciated by more sulfide											
RVD17-10	E. Adlakha						359.56	sulfide patch with chalcopyrite replacing granite											
RVD17-10	E. Adlakha						360.5	sulfide patch with chalcopyrite replacing granite											
RVD17-10	E. Adlakha					360.54	361.25	quartz-dol-py veinlet along core axis											
RVD17-10	E. Adlakha						362.22	QSP veinlet with chalcopyrite 45deg TCA											
RVD17-10	E. Adlakha					360	362	many QSP stringers +/- chalcopyrite and dolomite veinlets											
RVD17-10	E. Adlakha						366.27	quartz-chalcopyrite bleb											
RVD17-10	E. Adlakha					366.38	355.72	area of green clay alteration - saussertization of feldspar											
RVD17-10	E. Adlakha						367.28	1 cm quartz vein with small chalcopyrite blebs, 45 deg TCA											
RVD17-10	E. Adlakha						367.57	quartz veinlet with cpy blebs, 120 deg TCA											
RVD17-10	E. Adlakha						368.63	blebs of chalcopyrite and chlorite											
RVD17-10	E. Adlakha						369	cpy-chlorite discontinuous stringers overprinted by dolomite-quartz veins											
RVD17-10	E. Adlakha						375	quartz-cpy veinlet 110 deg TCA											

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RVD17-10	E. Adlakha					380.4	380.51	silicified quartz-porphyry dyke with QSP veins cross cutting dyke and along margins											
RVD17-10	E. Adlakha						381.4	2 cm quartz pyrite vein 45deg TCA											
RVD17-10	E. Adlakha					380.86	384	weak saussertization - green clay alteration of feldspar											
RVD17-11	Lefort D/ Mostaghimi N	Lith_Frc	Lith_To	Litho_ Major	Description	Sub-Int_	Sub-Int_	Subinterval_Notes	Late Alter	Late Alte	Early Alte	Secondar	Py%	Cpy%	Prt%	Mo%	Sch%	Other	Other%
RVD17-11	Lefort D/ Mostaghimi N	0	4.1	OVB	Overburden: Oxidized rubble, granodiorite Ox number (4)														
RVD17-11	Lefort D/ Mostaghimi N	4.1	146.6	GRD	Granodiorite: Absent to Moderate phyllic alteration. Med-Coarse grained GRD, mafic enclaves, biotite-Hbl bearing, megacrystic. Carb-Py stringers, carb stringers. Weak Kspar alteration, Kspar alteration around various stringers, magnetite present in sections of weak Kspar alteration. Ep crystals, rare. Oxidized fractures, some intervals showing Ox number of 3. Intercalated zones of absent-weak and moderate strong phyllic alteration.				Phyllic 1	m	Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N						4.23	Tr Cpy in an oxidized portion of granodiorite											
RVD17-11	Lefort D/ Mostaghimi N						15.84	Carb-Hem stringer, parallel to core, wavy, 1mm											
RVD17-11	Lefort D/ Mostaghimi N					17.12	17.28	Dol-Qtz Breccia: Pinkish, banded dolomite often surrounding angular clasts of Carb and Qtz veins. Qtz bands along upper margin. Common brecciated Carb-Qtz, mm angular with Carb infill towards lower margin											
RVD17-11	Lefort D/ Mostaghimi N						17.3	2cm Cpy-Brn-Py-Qtz vein. 60%Py, 25% Cpy, 15 % Sph. Cm sized clots of Cpy and Py, wispy fractures throughout (fine Qtz stringers?), mm blocky blebs, subrounded. mm sized subangular-irregular blebs of Bornite. Bornite (peacock colours) found on fracture, surface along core axis. Vein is not continuous across core axis, appears to be truncated, faulted (?). <1mm blocky sulfosalt crystals					60	25			Sph	15
RVD17-11	Lefort D/ Mostaghimi N					17.75	18.07	Structure: Fault gouge, very soft, strong phyllic alteration and oxidation. Mm to cm subangular clasts.											
RVD17-11	Lefort D/ Mostaghimi N					17.75	19.6	Strong phyllic alteration, strong oxidation	Phyllic 1	s									
RVD17-11	Lefort D/ Mostaghimi N						19.2	10 cm Oxidized pegmatite vein ? Qtz-Feld											

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RVD17-11	Lefort D/ Mostaghimi N					22.85	23.3	Three Carb-Qtz-Py shear veins. Wispy irregular veinlets, 1-2cm, 55 deg, banded Carb, Py filling around clasts of host rock.											
RVD17-11	Lefort D/ Mostaghimi N						24.28	Weak Kspar alteration			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					25.5	26.54	Strong phyllic alteration, medium green-grey clays, soft, broken core	Phyllic 1	s									
RVD17-11	Lefort D/ Mostaghimi N						27.6	Qtz-Carb-Cpy-Py stringer, 40 deg, 1mm											
RVD17-11	Lefort D/ Mostaghimi N						28.5	Sheeted biotite-Qtz stringers, 40 deg wispy discontinuous											
RVD17-11	Lefort D/ Mostaghimi N						29.48	Granophyric veinlet, 1cm 60 deg, with Qtz-Mol(?) lense along upper margin											
RVD17-11	Lefort D/ Mostaghimi N						31	Qtz-Bio-Py veinlet, 1cm 85 deg, disseminated Py in Bio wisps											
RVD17-11	Lefort D/ Mostaghimi N						31.6	Strong phyllic alteration halo around fracture											
RVD17-11	Lefort D/ Mostaghimi N						32.56	Qtz-Cpy-Py stringer, <1mm, 35 deg tca											
RVD17-11	Lefort D/ Mostaghimi N					32.9	34.31	Strong-Mod phyllic alteration	Phyllic 1	s									
RVD17-11	Lefort D/ Mostaghimi N						33.81	Carb wispy 2cm, 60 deg tca											
RVD17-11	Lefort D/ Mostaghimi N					34.59	37	Weak potassic alteration, Kspar alteration, magnetite grains throughout			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N						35	Mafic enclave with disseminated Po											
RVD17-11	Lefort D/ Mostaghimi N						36.05	Kspar vein, 1.5 cm, 45 deg, comb layering											
RVD17-11	Lefort D/ Mostaghimi N					37	40.05	Strong phyllic alteration, light green mica-clays	Phyllic 1	s									
RVD17-11	Lefort D/ Mostaghimi N						40.05	Py carb vein with white halo											
RVD17-11	Lefort D/ Mostaghimi N						40.9	Tr Cpy stringer, 1mm 30 deg tca											
RVD17-11	Lefort D/ Mostaghimi N						41.85	Chl-Bio stringer, 1mm, 25 deg tca, Kspar halo 3cm											
RVD17-11	Lefort D/ Mostaghimi N						42.89	Qtz-Carb-Cpy-Py veinlet, 40 deg, 4mm											
RVD17-11	Lefort D/ Mostaghimi N						44.36	Cpy-Py-Qtz stringer											

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RVD17-11	Lefort D/ Mostaghimi N						46.25	Qtz-Carb-Py classic, 2mm, 65 deg											
RVD17-11	Lefort D/ Mostaghimi N						47	Qtz-Py-Mo veinlet, Mo bleb, 3mm, 50 deg											
RVD17-11	Lefort D/ Mostaghimi N						47.32	Qtz-Carb-Cpy-Py cutting Fe-clay stringer											
RVD17-11	Lefort D/ Mostaghimi N					48.2	48.77	Wispy Biotite-Qtz-Py-Ser stringers											
RVD17-11	Lefort D/ Mostaghimi N						51	Fe-staining ox number 2											
RVD17-11	Lefort D/ Mostaghimi N					51	51.75	Qtz veins, clustered discontinuous, 1cm											
RVD17-11	Lefort D/ Mostaghimi N						53.1	Qtz-Carb-Cpy-Py stringer, 40 deg, <1mm											
RVD17-11	Lefort D/ Mostaghimi N					53.1	55.23	Mod-strong phyllic alteration	Phyllic	1	m								
RVD17-11	Lefort D/ Mostaghimi N						54	Carb-Qtz-Py shear veins, wispy margins, vuggy, altered, rounded blebs of Py											
RVD17-11	Lefort D/ Mostaghimi N						53.75	Py-Mo-Hem, 60 deg, 3mm											
RVD17-11	Lefort D/ Mostaghimi N					55.65	56.7	Biotite-rich interval											
RVD17-11	Lefort D/ Mostaghimi N						56.72	Bio stringers cut by Qtz vein											
RVD17-11	Lefort D/ Mostaghimi N					58	76.3	Moderate-strong interval of phyllic alteration, greenish mica-clays	Phyllic	1	m								
RVD17-11	Lefort D/ Mostaghimi N						59.43	Qtz-Carb-Cpy-Py stringer											
RVD17-11	Lefort D/ Mostaghimi N					60.3	60.7	Oxidized fault gouge											
RVD17-11	Lefort D/ Mostaghimi N					63	63.85	Qtz-Carb-Py, classic, 5 deg tca, 7mm											
RVD17-11	Lefort D/ Mostaghimi N						63.2	Carb veinlets, sheared wispy margins											
RVD17-11	Lefort D/ Mostaghimi N						64.3	Qtz-Cpy stringer, low angle											
RVD17-11	Lefort D/ Mostaghimi N					65.2	65.35	Wispy Qtz-Carb shear veins, cut by grey qtz											
RVD17-11	Lefort D/ Mostaghimi N						67.4	Qtz-Carb-Cpy-Py veinlet, irregular, mm blebs of Cpy											
RVD17-11	Lefort D/ Mostaghimi N						68.45	Hem crystals, mm blebs											

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RVD17-11	Lefort D/ Mostaghimi N						69	Large Qtz vein, irregular, blebs of Cpy present											
RVD17-11	Lefort D/ Mostaghimi N						69.25	Py stringer cutting aplite dyke											
RVD17-11	Lefort D/ Mostaghimi N					73.55	73.75	Breccia Dol-Qtz veining, mm blebs of Cpy present											
RVD17-11	Lefort D/ Mostaghimi N					76.3		Weak Kspar alteration, throughout associated with veining			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N						76.93	Black Qtz-Bio clusted stringers											
RVD17-11	Lefort D/ Mostaghimi N						77.3	Kspar halos around Chl-Ser stringers											
RVD17-11	Lefort D/ Mostaghimi N						77.55	Kspar halos around Chl-Ser stringer cut by Py stringer with Ser halo											
RVD17-11	Lefort D/ Mostaghimi N						78.35	Pt-Hem stringer with Kspar alteration halo											
RVD17-11	Lefort D/ Mostaghimi N						79.1	Qtz-Cpy-Py stringer, <1mm, 35 deg tca											
RVD17-11	Lefort D/ Mostaghimi N						80.25	Cpy along broken fracture											
RVD17-11	Lefort D/ Mostaghimi N						80.7	Wispy black Qtz-Bio veinlets											
RVD17-11	Lefort D/ Mostaghimi N						81.55	Cpy along broken fracture											
RVD17-11	Lefort D/ Mostaghimi N					82	84.6	Dark black-green interval, patch of biotite rich sections, with Qtz and wispy carb veinlets throughout.											
RVD17-11	Lefort D/ Mostaghimi N						83.6	Qtz-Cpy-Py stringer, 1mm, 35 deg tca											
RVD17-11	Lefort D/ Mostaghimi N					84.6	93.5	Weak-absent phyllic alteration, kspar alteration	Phyllic 1	w	Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N						86.8	Qtz vein, 90 deg, bioite selvages, with Kspar halo											
RVD17-11	Lefort D/ Mostaghimi N						90.4	Kspar alteration around a low angle Bio-Chl stringer											
RVD17-11	Lefort D/ Mostaghimi N						91.7	Phyllic alteration around a fracture											
RVD17-11	Lefort D/ Mostaghimi N						93.45	Pinkish aplite dyklet											
RVD17-11	Lefort D/ Mostaghimi N						94.46	Qtz-Py stringer cutting a Qtz -Kspar veinlet, Kpsar selvages											
RVD17-11	Lefort D/ Mostaghimi N					96.15	96.35	Fine grain Qtz+Felds dyke, yellow-tan, cut by Py and Carb stringer, Hem present											

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RVD17-11	Lefort D/ Mostaghimi N					96.93	96.25	Fine grain Qtz+Felds dyke, yellow-tan, cut by Py and Carb stringer, Hem present											
RVD17-11	Lefort D/ Mostaghimi N					100.35	101.88	Moderate phyllic interval, light green clay-Qtz	Phyllic 1	m									
RVD17-11	Lefort D/ Mostaghimi N					103	106.66	Weak-absent phyllic alteration, Kspar alteration around stringers, Qtz-Feld veins											
RVD17-11	Lefort D/ Mostaghimi N						104.4	Qtz-Feld vein, 2.5 cm 90 deg tca											
RVD17-11	Lefort D/ Mostaghimi N						105.22	Qtz-Feld vein, 4 cm 90 deg tca											
RVD17-11	Lefort D/ Mostaghimi N						105.66	Bio-Chl stringer with Kspar alteration											
RVD17-11	Lefort D/ Mostaghimi N						105.85	Kspar alteration around some stringers											
RVD17-11	Lefort D/ Mostaghimi N					110.72	110.77	Oxidized aplite dyke; 90 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					111.36	111.39	Aplite dyke; 75 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					112.43	112.82	Aplite dyke; 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					113.23	116.49	Moderate ser alteration. Ser is green and white in colour and pervasive. Cb alteration is weak and is associated with veins.	Carbonatew		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					114	114.3	Cb-py vein; 0-10 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					115	115.03	Qtz vein; 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					115.5		Qtz-bt vein. Qtz vein with sharp margins and bt halo up to 2 cm wide; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					116.93	116.97	FeOx of aplite dyke; 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					117.6	118.27	Cb-veinlets; 20 and 0-5 deg. TCA; Weak intensity.											
RVD17-11	Lefort D/ Mostaghimi N					119.16	119.64	Moderate pervasive ser alteration	Phyllic 1	m									
RVD17-11	Lefort D/ Mostaghimi N						120.46	Qtz-vein with chloritized mafic enclaves and bt halo. Cb associated with chl. Qtz-vein at 35 deg. TCA cross cuts a chl-py veinlet that cuts the rock at 55 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					120.62	120.72	Bt-stringers are parallel and spaced 3 cm apart at 25 deg. TCA											

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RVD17-11	Lefort D/ Mostaghimi N					121	121.08	Magmatic foliation defined by oriented and weakly aligned plag megacrysts. 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					122.11	122.12	Veinlet with cpy-po-kspar chl-qtz; 35 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					121	123.3	Trace alteration. Relatively fresh rock.											
RVD17-11	Lefort D/ Mostaghimi N					125	126	Weak foliation defined by oriented and aligned mafic minerals; 40-45 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					126.68	132.03	Weak-moderate potassic alteration defined by bt stringers and qtz-bt veins and bt after mafics.			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					126.68	126.79	Qtz-veins with bt along margins of veins at 50 deg. TCA (4 within 10 cm)											
RVD17-11	Lefort D/ Mostaghimi N					127.52	127.53	Bt-qtz vein at 40 deg. TCA is cross cut by chl-sulph veinlet at 10 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					129.45	129.46	1 mm wide cb veinlet at 85 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					130.33	130.43	FeOx along fracture. Broken up rock over 10 cm											
RVD17-11	Lefort D/ Mostaghimi N					131.66	132.03	Strong bt-stringers (stockwork) at 20 and 10 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					132.03	133.57	Cb alteration is pervasive and associated with veins and veinlets.											
RVD17-11	Lefort D/ Mostaghimi N					132.84	133.57	Aplite dyke; 85 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					134.06	134.21	Fault cuts rock at 60 deg. TCA with a sharp contact and filled with fault gouge.											
RVD17-11	Lefort D/ Mostaghimi N					134.21	134.67	Moderate-strong sericite and clay alteration is pervasive after feldspar minerals			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					135.72	135.75	Large py blebs (1-2 cm wide) within qtz-veins oriented 90 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					135.79	135.81	Fault cuts rock at 60 deg. TCA. Fault contains gouge (matrix supported) with rounded clasts (<35%)											
RVD17-11	Lefort D/ Mostaghimi N					135.88	135.93	Fault with dark grey laminated gouge material. Fault is oriented at 80 deg. TCA. Strong cb alteration.											
RVD17-11	Lefort D/ Mostaghimi N					136.11	136.12	Cb fracture-infill in fracture											

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RVD17-11	Lefort D/ Mostaghimi N					136.12	137.16	Sheeted chl-veinlets are oriented at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					136.67	144.97	Weak-trace phyllic overprint			Phyllic 1	tr							
RVD17-11	Lefort D/ Mostaghimi N					138.09	138.43	Cb veins fracture in-fill. Cb-cuts rock at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					144.97	145.67	Weak-moderate pervasive green sericite alteration			Phyllic 1	w							
RVD17-11	Lefort D/ Mostaghimi N					145.67	146.4	Moderate-strong sericite, clay and cb alteration.	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					145.77	145.87	Qtz-cb-mo-py vein. Vein is brecciated in areas and shows signs of multiple episodes of fluid introduction. 75 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N	146.6	182.1	GRD	Granodiorite: Absent to Moderate potassic alteration occurs sporadically, typically associated with veins that contain bt-kspar-qtz. Zones of phyllic alteration are not common but may occur at varying intensities. The granodiorite contains mafic enclaves of various sizes up to 10 cm large and plag megacrysts. Mineralization is very weak and only associated with qtz-sulph veins or associated with altered mafic enclaves (typically in association with veins). Disseminated mineralization is trace. Mineralization: Py: 4%; Cpy: 0.3-0.5%; Po: 2%; Mo: 0.05-0.08%						Potassic	w	4	0.4	2	0.1			
RVD17-11	Lefort D/ Mostaghimi N					147.21	147.63	Stockwork chl-stringers cross cut the rock at 70 deg. TCA and are cross cut by chl-qtz-py veins (2 mm wide) that are diffuse.											
RVD17-11	Lefort D/ Mostaghimi N					149.69	149.73	Aplite dyke; 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					149.86	150.54	Weak kspar alteration is pervasive			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					151.66	151.68	Aplite dyke; 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					152.02	152.04	Aplite dyke; 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					152.04	154.05	Bt-stringers are common and occur at 60 and 30 deg. TCA. Moderate intensity.											
RVD17-11	Lefort D/ Mostaghimi N					154.57	154.58	Bt (after chl) stringer with kspar halo up to 1 cm wide on either side of vein. Late cb-fracture infill											
RVD17-11	Lefort D/ Mostaghimi N					156.56	156.57	Qtz-po-cpy-aspy cuts the rock at 25 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					156.91	157.11	Chloritized mafic enclave with po and cpy associated with proximal kspar											
RVD17-11	Lefort D/ Mostaghimi N					159.26	159.4	Trace -weak foliation defined by oriented and aligned mafic minerals											
RVD17-11	Lefort D/ Mostaghimi N					161.35	161.36	Bt after chl veinlet with kspar halo											

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RVD17-11	Lefort D/ Mostaghimi N					161.54	162.19	Cb-fracture infill is weak											
RVD17-11	Lefort D/ Mostaghimi N					164.39	166	Bt after chl veinlet with kspar halo occur <1/10 cm and are typically 80-90 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					166.85	166.86	Bt after chl veinlet with kspar alteration halo											
RVD17-11	Lefort D/ Mostaghimi N					167.64	168.24	Strong cb and ser alteration is pervasive and associated with a vein											
RVD17-11	Lefort D/ Mostaghimi N					167.74	167.76	Pink cb vein cuts the rock at 80 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					168.79	170.69	Strong, white clay and ser alteration.			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					169	169.1	White cb vein is wide and contains large blebs of py.											
RVD17-11	Lefort D/ Mostaghimi N					172.57	173.49	Moderate ser alteration is pervasive. Moderate cb alteration associated with veinlets is common as well.	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					174.35	175.15	Moderate-strong ser and clay pervasive alteration. Cb alteration is moderate and associated with fractures.	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					175.64	177.46	Moderate ser and weak to moderate cb alteration. Cb veinlets are oriented 50 deg. TCA and occur 2 per 10 cm. Cb veinlets also occur at 20 deg. TCA	Carbonatew		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					178.49	179.44	Moderate to strong ser and clay alteration of feldspar minerals. Cb alteration is weak to moderate.	Carbonatew		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					179.94	180.54	Weak to moderate ser and clay alteration and Weak to moderate cb alteration comprising cb veinlets.	Carbonatew		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N	182.1	220.1	GRD	Granodiorite: Moderate to strong phyllic alteration overprint of granodiorite with sporadic zones of weak potassic alteration that is not overprinted. Cb alteration overprint of phyllic alteration zones is common and varies in intensity from weak to strong. Aplite dykes are rare. Mineralization: Py: 4-7%; Cpy: 0.4-0.6%; Po: 1-2%; Mo: 0.1-0.2%. Increase in mineralization occurs below zone of high density of faults.				Phyllic 1	m	Potassic	w	5.5	0.5	1.5	0.2			
RVD17-11	Lefort D/ Mostaghimi N					183.35	183.36	Wide, 1.5 cm, qtz vein with diffuse margins contains py-cpy; 15 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					183.85	183.86	Wide, 1.5 cm, qtz vein with diffuse margins contains specs of mo; 15 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					188.2	189.68	Weakly magnetic in areas of rock. Weak to moderate potassic alteration.			Potassic	w							

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RVD17-11	Lefort D/ Mostaghimi N					189.45	189.68	Weak to trace foliation; 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					188.92	189.02	Bt veinlets; 0-10 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					189.1	189.11	Bt veinlet; 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					189.35	189.35	Bt stringers + po; 70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					190.22	190.27	Fault with 1.5 cm wide fault gouge material (white colour) with cb. Fault contains qtz+mo											
RVD17-11	Lefort D/ Mostaghimi N					193.15	198.83	Zone with faults and broken-up fractured rock. Strong cb overprint of phyllic alteration.	Carbonates										
RVD17-11	Lefort D/ Mostaghimi N					193.15	193.2	Fault with qtz-mo+/-py and gouge material, likely with cb; 75 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					194.48	194.5	Fault with cb-infill comprising of 50-60% matrix-supported gouge and rounded clasts; 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					194.93	195.26	Fault with 40-50% matrix-supported gouge with rounded clasts; 35-45 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					195.48	195.53	Qtz-mo vein; 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					197.4	197.42	Qtz-mo with cb-infill vein along a fracture at 40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					198.38	198.83	Fault with broken up rubble and gouge with cb; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					198.83	200.22	Zone of med-fine grained (1-7 mm long) euhedral blades, secondary tourmaline (2-3% of rock) is randomly oriented. Does not appear to be associated with anything specific. Strong ser and cb alteration.	Carbonates		Carbonates								
RVD17-11	Lefort D/ Mostaghimi N					200.9	201.9	Stockwork chl-py stringers cut the rock at 75 and 15 deg. TCA and occur up to 6 per 10 cm.											
RVD17-11	Lefort D/ Mostaghimi N					202.82	210.36	Increase in mineralization: Py: 8-10%; cpy: 0.7-0.9%; po: 2-3%					9	0.8	2.5				
RVD17-11	Lefort D/ Mostaghimi N					202.82	203.14	Moderate silica alteration; increase in magnetism in rock?			Silica	m							
RVD17-11	Lefort D/ Mostaghimi N					202.82	202.83	Qtz-cpy-py vein cuts rock at 30 deg. TCA.											

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RVD17-11	Lefort D/ Mostaghimi N					203.75	203.76	Qtz-py-minor cpy with cb-infill cuts the rock at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					204.08	204.09	Qtz-mo veinlet conjugates at 70 deg. TCA are cross cut by a white and pink cb vein at 0-5 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					204.18	208.79	Weak to moderate green sericite alteration is pervasive. Weak silica alteration. High density of veins. Cb veins at 0-10 deg. TCA are common. Thin chl-sulph veinlets at 40-50 deg. TCA occur 1-2 per 10 cm. Qtz veins with high concentrations of py-minor cpy. Py are large (2-3 cm large). Po occurs as well, more than cpy.	Phyllic 1	w	Silica	w							
RVD17-11	Lefort D/ Mostaghimi N					209.12	209.13	Cpy associated with py bleb.											
RVD17-11	Lefort D/ Mostaghimi N					210.36	213.05	Moderate silica alteration with varying amounts of magnetism in rock (mt?). Uncommon veins.			Silica	m							
RVD17-11	Lefort D/ Mostaghimi N					212.05	212.06	Thin, 1 mm wide qtz-chl-py-cpy veinlet at 30 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					215.36	215.37	Stockwork chl-veinlets at 0-10 deg. TCA and 30 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N	220.1	302.3	GRD	Granodiorite: Moderate to strong, potassically altered granodiorite with sporadic zones of phyllic alteration. Pervasive and vein cb alteration is typically associated with the phyllic alteration zones. Mineralization: Py: 5-7%; Cpy: 0.5-1%; Po: 1-2%; Mo: 0.2-0.3%. Disseminated mineralization is weak to trace.						Potassic	m	6	0.8	1.5	0.3			
RVD17-11	Lefort D/ Mostaghimi N					220.29	220.55	Stockwork bt (after chl?) stringers associated with kspar alteration. Orientations are 20 and 70 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					221.46	222	Increase in mineralization: Py: 15-20%; cpy: 5-8%; po: 4-7%; mo: 2-3%.					18	6.5	5.5	2.5			
RVD17-11	Lefort D/ Mostaghimi N					221.46	222	Strong bt alteration, kspar alteration, and chl and qtz-veins			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					221.46	222	Fabric of 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					223.09	223.96	Moderate-strong ser and clay alteration; moderate-strong cb alteration.	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					223.6	223.84	Strong fabric defined by veins and mineralization-folia at 60 deg TCA.											
RVD17-11	Lefort D/ Mostaghimi N					223.82	223.83	Mo mineralization											

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RVD17-11	Lefort D/ Mostaghimi N					225.3	228.57	Moderate green ser and white clay alteration. Weak to moderate intensity of cb alteration. Cb alteration is typically associated with fractures.	Carbonatew		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					227.24	227.26	Healed fault with cb-infill.											
RVD17-11	Lefort D/ Mostaghimi N					230.47	230.48	Bt stringers at 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					230.6	230.61	Cb-vein at 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					230.66	230.67	Qtz-kspar-po-cpy veinlet at 25 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					231.47	231.54	Bt (after chl?) stringers at 30 deg. TCA associated with kspar alteration.											
RVD17-11	Lefort D/ Mostaghimi N					232.77	236.91	Cb veinlets at 15 deg. TCA occur 1-3 per 10 cm											
RVD17-11	Lefort D/ Mostaghimi N					234.41	234.58	Pervasive kspar alteration											
RVD17-11	Lefort D/ Mostaghimi N					236.91	237.55	Strong ser and cb alteration. Cb veinlets occur at 10 deg. TCA	Carbonates		Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					238	239.27	Cb veinlets at 15 deg. TCA occur 1-2 per 10 cm											
RVD17-11	Lefort D/ Mostaghimi N					240.78	242.88	Weak to moderate ser alteration. Cb veinlets cut the rock at 35 deg. TCA and occur <1 per 10 cm.	Carbonatew		Phyllic 1	w							
RVD17-11	Lefort D/ Mostaghimi N					243.56	243.58	Bt stringers with po-cpy and kspar halo cuts the rock at 40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					249.17	250.92	Foliation defined by aligned and oriented mafic minerals; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					252.43	252.44	Thin (1 mm) qtz-cpy-po veinlet with chl halo; 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					253.1	256.67	Stockwork bt-veinlets; strong density (6-10 per 10 cm); associated with pervasive kspar alteration; veinlets at 30 and 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					253.33	253.35	Qtz-py-cpy veinlet at 65 deg. TCA parallel to cb-veinlet											
RVD17-11	Lefort D/ Mostaghimi N					257.62	258.69	Moderate cb and ser alteration	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					262.22	262.32	Strong bt stringers associated with kspar alteration.											

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RVD17-11	Lefort D/ Mostaghimi N					263.65	264.7	Trace alteration. Relatively fresh rock.											
RVD17-11	Lefort D/ Mostaghimi N					264.7	265.69	Weal to moderate ser alteration and moderate cb alteration associated with white coloured veinlets that cut the rock at 70-80 deg. TCA	Carbonatem		Phyllic 1	w							
RVD17-11	Lefort D/ Mostaghimi N					266.92	268.74	Weak foliation defined by aligned and oriented weakly altered mafic minerals; orientation of fabric is 60-70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					270.04	272.8	Weak foliation defined by oriented and aligned weakly altered mafic minerals; orientation is 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					270.5	270.51	Qtz-mo-ep veinlet cuts the rock at 35 deg. TCA. Cb-infill											
RVD17-11	Lefort D/ Mostaghimi N					275.13	277.67	Moderate ser and cb alteration. Cb veinlets cut the rock at 30 and 80 deg. TCA and occur 1 per 10 cm	Carbonatew		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					276.93	276.97	QSP vein with mo cuts the rock at 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					279.85	279.86	Qtz-cpy-py veinlet cuts the rock at 80 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					282.9	282.98	Qtz-po-cpy vein with diffuse margins and weakly undulating margin at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					283.7	283.71	Qtz-chl vein is 2 cm wide and cuts rock at 15 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					285.24	285.25	Po-cpy mineralization is associated with veinlet											
RVD17-11	Lefort D/ Mostaghimi N					284.76	284.77	Py-cpy associated with chloritized plag megacrysts											
RVD17-11	Lefort D/ Mostaghimi N					286.77	286.75	Fault with gouge material and cb infill; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					285.87	285.88	Qtz-chl-py-cpy veinlet at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					287.05	287.1	Fractured zone											
RVD17-11	Lefort D/ Mostaghimi N					287.74	287.75	Qtz-py veinlet with kspar cuts the rock at 40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					289.91	289.92	Fault with cb-infill; 25 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					289.92	293.07	Moderate ser and strong cb alteration associated with pervasive alteration of feldspars and veins.	Carbonatem		Phyllic 1	m							

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RVD17-11	Lefort D/ Mostaghimi N					289.92	293.07	Strong sheeted cb veinlets at 60-65 deg. TCA and veins at 30-40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					293.75	293.76	Chl-ep vein at 35 deg. TCA with kspar halo											
RVD17-11	Lefort D/ Mostaghimi N					294.3	295.5	Weak foliation defined by aligned and weakly oriented mafic minerals; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					295.17	302.3	Moderate ser and cb alteration.	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					297.02	297.04	Fault with qtz-cb Bx veins and fractured rock cut the rock at 60 deg. TCA. FeOx staining along surfaces.											
RVD17-11	Lefort D/ Mostaghimi N					299.8	299.84	Qtz-mo-cb vein folia define a fabric at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					300.44	301.44	Strong pervasive silica alteration amd associated with veins.			Silica	s							
RVD17-11	Lefort D/ Mostaghimi N					301.3	301.35	Moderate foliation defined by bt after mafic minerals that are aligned and oriented within silica rich alteration zone											
RVD17-11	Lefort D/ Mostaghimi N					301.96	302	Aplite dyke cuts the rock at 35 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					302.26	302.28	Moderate-strong foliation defined by chl stringers within an altered mafic enclave.											
RVD17-11	Lefort D/ Mostaghimi N	302.3	374	GRD	Granodiorite: Moderate potassic alteration over granodiorite with zones of sporadic phyllic and associated cb alteration. Aplite dykes are common and occur once per metre. Potassic alteration typically comprises pervasive bt alteration, bt-stringers (sometimes after chl) and qtz-veins and veinlets that carry weak to moderate grade. Pervasive kspar is weak, and also occurs as halos associated with qtz+/-chl+/-bt veinlets. Ser alteration occurs as white minerals (+clays) and a green-coloured variety at trace to weak intensities with occassional stronger intensity zones. Cb alteration occurs in veins and pervasively associated with fractured rock and zones of high densities in veins. Most mineralization (cpy-py-po-mo-asp) are associated with thin qtz-veinlets that occur in stockwork formation (0 and 50 deg. TCA). Mineralization of cpy-py and occasionally po are associated with qtz-veins with diffuse margins and blurred chl haloes (35 deg. TCA). Po is most strongly associated to zones of elevated secondary bt-rich. Mo mineralization is relatively high in this zone and typically associated with qtz veins and veinlets - commonly in proximity to aplite dykes. Mineralization: Py: 6-8; Cpy: 0.7-1.2%; Po: 4-6%; Mo: 1-3%; Asp: 0.1%					Potassic	m	7	1	5	3.5	Aspy	0.1
RVD17-11	Lefort D/ Mostaghimi N					302.32	302.34	Fault with 2 cm of very fine grained and uniform gouge material; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					302.58	302.61	Aplite dyke at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					302.15	302.16	Cpy associated to chloritized mafic enclave cut by qtz vein at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					303.66	303.7	Asp(?) blebs (1.5 mm wide) associated with thin <1 mm wide qtz-veinlets that also carry cpy-py; 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					304.25	304.65	Weak-moderate pervasive green sericite alteration			Phyllic 1	m							

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RVD17-11	Lefort D/ Mostaghimi N					305.29	305.3	Qtz-py-cpy veinlet at 35 deg. TCA with diffuse and variant chl halo											
RVD17-11	Lefort D/ Mostaghimi N					306.65	307.1	Cb veinlets occur at 45-60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					307.56	307.69	Aplite dyke cuts the rock at 75 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					308.29	308.31	Aplite dyke cuts the rockat 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					308.72	309.12	Sericite and cb alteration is moderate to strong	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					309.26	309.6	Strong ser and cb alteration	Carbonates		Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					309.6	309.62	Aplite dyke at 35 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					309.94	309.97	Aplite dyke at 35 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					310.26	310.76	Moderate ser and clay alteration. Moderate cb alteration as veins	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					310.7	310.76	Cb, qtz-mo-py veins occur as folia to define a fabric at 70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					312.64	312.67	Aplite dyke at 35 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					313.55	313.56	Kspar halo associated with a qtz veinlet											
RVD17-11	Lefort D/ Mostaghimi N					313.82	313.83	Kspar halo associated with a qtz-chl veinlet											
RVD17-11	Lefort D/ Mostaghimi N					315.34	315.58	Fractured zone with FeOx along surfaces. Qtz veins are common.											
RVD17-11	Lefort D/ Mostaghimi N					316.73	317.16	Strong ser and clay replacement of feldspars			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					317.16	317.36	Fault zone with strong (4) FeOx. Fractured rock is common and healed rock; 65 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					317.36	317.91	Moderate to strong ser with zones of FeOx along fractures.			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					318.48	318.56	Aplite dyke at 35 deg. TCA; FeOx (2)											
RVD17-11	Lefort D/ Mostaghimi N					318.73	318.75	2-3 mm wide undulating vein with cpy at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					318.8	319.03	Aplite dyke at 75 deg. TCA; FeOx (2)											
RVD17-11	Lefort D/ Mostaghimi N					318.91	318.92	3 mm wide qtz-cpy-py vein with cb-infill at 15 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					318.19	318.2	Bt-qtz sheeted veinlets at 50 deg. TCA			Potassic	s							

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RVD17-11	Lefort D/ Mostaghimi N					320.59	323.65	Moderate green ser alteration			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					320.96	321.06	Qtz-mo- and cb-folia define a fabric of 70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					321.3	321.31	Qtz-cpy veinlets at 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					322.29	326.69	Strong ser and clay replacement of feldspars			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					323.37	323.43	Aplite dyke at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					325.35	325.37	Thin, 1 mm wide qtz-mo veinlet at 55 deg. TCA cross cuts a 4 mm wide qtz-cpy-po vein at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					326.85	327.34	Moderate intensity of bt-stringers at 40 deg. TCA. Kspar is associated with veinlets.											
RVD17-11	Lefort D/ Mostaghimi N					327.34	327.74	Strong ser and clay replacement of feldspars			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					328.6	328.61	Wispy qtz-py-cpy veinlet with chl selvage											
RVD17-11	Lefort D/ Mostaghimi N					330.22	330.29	Aplite dyke at 55 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					330.9	331.07	Aplite dyke at 50 deg. TCA; disseminated mo grains; and cross cut by cb veinlets at 35 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					331.68	332.92	Strong ser and clay replacement of feldspars			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					331.84	331.89	Aplite dyke cuts the rock at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					332.92	333.12	Aplite dyke cuts the rock at 45 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					333	337	Overprinted propylitic zone? Qtz-chl(?)or bt veinlets at 40 and 70 deg. TCA occur 2 per 10 cm. These veinlets are cross cut by qtz-po-cpy-mo veins that are 2-3 mm wide with sharp margins and oriented at 20-30 deg. TCA			Propylitic	w							
RVD17-11	Lefort D/ Mostaghimi N					337.48	345.55	Strong cb alteration (pervasive and veinlets). Moderate ser and clay alteration.	Carbonates		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					338	339.74	Large mafic enclave is altered to cb and ser.											
RVD17-11	Lefort D/ Mostaghimi N					337.48	345.55	Cb-veinlets occur at 70, 50 deg. TCA.											

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RVD17-11	Lefort D/ Mostaghimi N					337.82	337.83	Qtz-py-po-aspy occurs at 50 deg. TCA. Aspy is vfg and shimmers.											
RVD17-11	Lefort D/ Mostaghimi N					340.26	336.51	Strong density of qtz-cpy-po-mo veinlets at 60 and 25 deg. TCA			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					342.22	342.48	High density of 1.5 cm wide milky white qtz-vein with blebs of po-cpy and mo; 15 deg. TCA; 4 within this interval. These veins cross cut thin qtz-sulph veinlets			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					345.05	345.25	Strong pervasive bt alteration and silica alteration	Silica	s	Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					349.19	349.21	Qtz-mo vein at 40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					351.29	351.3	Kspar alteration halo associated with qtz-py+/-cpy veinlet with chl selvage; 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					353.25	353.48	Mod-strong cb alteration associated with vein	Carbonatem										
RVD17-11	Lefort D/ Mostaghimi N					353.41	353.42	Cb-qtz-mo-py vein at 45 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					354.05	354.06	2 cm wide qtz-po-mo vein with later cb-infill; 15 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					354.56	354.56	2 cm wide qtz-po-mo vein with later cb-infill; 25 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					355	355.1	Mod cb alteration associated with vein at 50 deg. TCA. Cb associated with Qtz-mo vein											
RVD17-11	Lefort D/ Mostaghimi N					358.49	360.51	Kspar selvages associated with bt (after chl?) veinlets that are oriented 25-35 deg. TCA and occur 1-2 per 10 cm											
RVD17-11	Lefort D/ Mostaghimi N					363.29	363.6	Moderate cb and ser alteration	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					363.58	363.6	Cb vein is 1.5 cm wide and contains a pink colour; 55 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					364.65	369.17	Weak kspar alteration is pervasive			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					368.55	368.56	4 mm wide qtz vein with sharp margins contains mo-cpy-po and cb-infill; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					369	372.98	Weak potassic alteration; trace to weak pervasive kspar alteration; vein density decreases			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					371.93	372.02	Aplite dyke with a 1.5 cm wide pegmatite dykelet parallel to its upper boundary; 85 deg. TCA											

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RVD17-11	Lefort D/ Mostaghimi N					372.98	373.99	Weak pervasive ser alteration			Phyllic 1	w							
RVD17-11	Lefort D/ Mostaghimi N					373.66	375.45	Weak to moderate foliation defined by aligned and oriented and deformed bt after mafic minerals in proximity to fault. Fault cross cuts foliation											
RVD17-11	Lefort D/ Mostaghimi N					373.81	373.83	Fault with healed gouge material oriented at 40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N	374	453.3	GRD	Granodiorite: Granodiorite is cross cut by a high density of aplite dykes that are typically associated to granophyric and pegmatitic textures along contacts. Some dykes can be up to 30 cm wide. Intermittent and sparse zones of high concentrations of large plag megacrysts also occur. All intrusives are hydrothermally altered by moderate to strong potassic alteration defined by pervasive blurry and diffuse bt alteration and crystalline bt after mafic minerals. The diffuse bt alteration zones are commonly associated with bt-stringers. Bt-stringers are suspected to be altered chl-veinlets. Weak phyllic alteration is common throughout the interval with zones of increased and decreased intensities. Phyllic alteration is typically associated to zones of fractured rock or with veins. Phyllic alteration zones are suspected to alter secondary bt to forest green chl. These zones also contain elevated cb alteration - pervasive and by veins and veinlets. Cb veins infill all earlier veins. Larger cb veins are associated with qtz-mo-py veins. 1-5 cm wide qtz-mo-cpy-po veins occur at 15-35 deg. TCA are believed to be associated with thinner (1-2 mm) qtz-sulph veinlets with sharp margins nd cross cut bt(after chl)+/-qtz+/-po+/-cpy veinlets with kspar selvages. The large qtz veins that are associated with relatively high mo-concentrations are x-cut by 2-3 mm wide qtz-py+/-cpy+/-po veins that contain diffuse margins and blebby sulphides (>50% of veins). All foliation observed is cross cut by qtz-veinlets and veins and faults with cb infill. Py: 4-6; Cpy: 2%; Po: 3%; Mo: 2-3%; Aspy: 0.05%				Phyllic 1	w	Potassic	m	5	2	3	2.5	Aspy	0.08
RVD17-11	Lefort D/ Mostaghimi N					374.93	375.11	Aplite dyke at 60 deg. TCA; with mo associated with qtz-veinlets											
RVD17-11	Lefort D/ Mostaghimi N					375.45	376.34	Weak ser alteration											
RVD17-11	Lefort D/ Mostaghimi N					376.8	376.84	Aplite dyke with 2 cm of pegmatitic texture adjacent to aplite; 70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					376.9	386.85	Moderate to strong ser and clay alteration			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					377.42	378.26	Fault zone with strong cb alteration (pervasive) and strong fabric defined by dark grey vfg qtz-mo-py? Upper contact: 75 deg. TCA; lower contact: 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					377.42	377.46	Fault at 75 deg. TCA with gouge material (cataclasite)											
RVD17-11	Lefort D/ Mostaghimi N					379.06	379.07	Qtz vein with py associated with black mineral with hexagonal shape; 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					379.53	379.54	Qtz-cpy veinlet cross cut by veinlet with mo											
RVD17-11	Lefort D/ Mostaghimi N					380.1	380.51	Brecciated zone with qtz in the matrix (grey colour); fault at 20 deg. TCA with healed gouge material											
RVD17-11	Lefort D/ Mostaghimi N					382.6	382.66	Multiple episodes of cb veins associated with qtz-py-mo veins that cut the rock at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					383.56	354	Strong potassic and green ser alteration. Stockwork qtz veinlets are common	Phyllic 1	s	Potassic	s							

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RVD17-11	Lefort D/ Mostaghimi N					383.87	383.89	Qtz-veinlets with cpy-mo at 70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					384.42	385.65	Strong pervasive cb alteration zone	Carbonates										
RVD17-11	Lefort D/ Mostaghimi N					384.49	384.5	Fracture cb-infill at 70 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					386.23	386.66	2-5 per 10 cm of 5 mm wide qtz veins with mo blebs and dissemination associated with py and cpy that cut the rock at 30 deg. TCA and 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					386.49	386.51	1.5 cm wide qtz-mo-cpy-po vein with cb-infill with white mica along margins; at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					386.78	386.93	Qtz-veins with mo-cpy-po and sharp margins at 30 deg TCA are cross cut by bt-qtz-blebby py- and higher concentrations of cpy with wispy and diffuse margins at 20 deg. TCA. Both of these veins are cross cut by cb-veins.											
RVD17-11	Lefort D/ Mostaghimi N					388.82	392.17	Mod-strong potassic alteration zone			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					391.09	391.1	Granophyric texture											
RVD17-11	Lefort D/ Mostaghimi N					393.26	393.39	Cb-veinlets cut the rock at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					390.84	391.5	Moderate foliation defined by chl (after mafics) elongate and oriented 45 deg. TCA cross cut the granophyric texture but are cross cut by qtz-mo-cpy veinlets at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					391.24	391.5	Granophryic texture along margins of aplite dyke at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					397.61	397.71	Aplite dyke at 50 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					397.71	398.3	Strong ser and clay alteration zone			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					400.86	401	Aplite dyke at 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					401.35	413	Moderate ser alteration			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					402.83	402.86	Qtz-mo-cpy vein (1 cm wide) at 30 deg. TCA cross cut by cb-veinlet at 50 deg. TCA											

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RVD17-11	Lefort D/ Mostaghimi N					402.96	402.97	Fracture cb-infill at 50 deg. TCA associated with qtz-mo-py vein											
RVD17-11	Lefort D/ Mostaghimi N					403.23	403.42	Aplite dyke is pervasively altered to green ser			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					404.37	405.17	Large, up to 2 cm, plag megacrysts											
RVD17-11	Lefort D/ Mostaghimi N					409.25	410	Strong pervasive cb alteration and veins	Carbonates										
RVD17-11	Lefort D/ Mostaghimi N					411.9	412.24	Strong bt alteration zone is pervasive			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					412.24	413.82	Sheeted qtz-veinlets with minor cpy-mo form a fabric oriented at 70-80 deg. TCA; strong density (15 per 10 cm)			Silica	s							
RVD17-11	Lefort D/ Mostaghimi N					417.28	417.58	Strong density of chl (bt after chl) veinlets oriented at 35 deg. TCA and occur 4 per 10 cm			Propylitic	s							
RVD17-11	Lefort D/ Mostaghimi N					421.72	422.25	Moderate pervasive ser alteration			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					422.12	422.14	1 mm wide qtz-cpy veinlet with sharp margins at 10 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					423.57	425.51	Moderate bt alteration as crystalline bt after mafics and pervasive diffuse zones											
RVD17-11	Lefort D/ Mostaghimi N					424.66	424.68	1 mm wide qtz-cpy -po veinlet cuts the rock at 10 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					425.41	426.93	Moderate to strong ser alteration zone			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					426.93	427.8	Strong pervasive blurry, diffuse bt alteration zone			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					427.8	428.39	Moderate ser alteration zone			Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					428.82	428.83	Qtz vein with bt halo +tourmaline?											
RVD17-11	Lefort D/ Mostaghimi N					429	429.3	Qtz stockwork veins with vfg mo and cpy			Silica	s							
RVD17-11	Lefort D/ Mostaghimi N					428.39	431.81	Strong bt-potassic alteration zone			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					431.85	432.43	Moderate ser and weak cb alteration	Carbonatem		Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					432.43	432.72	Strong pervasive and bt-stringers (potassic)			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					432.94	432.95	Qtz-Mo vein is 6 mm wide wide with sharp margins; 40 deg. TCA											

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RVD17-11	Lefort D/ Mostaghimi N					434.65	434.66	Qtz-vein with entrained chloritized mafic enclave associated to po with cpy mineralization along a margin and late cb-infill of the mafic enclave; 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					435.48	437.47	Granophyric texture associated with aplite dyke cross cut by qtz-veins at 20-30 deg TCA carrying mo+/-cpy											
RVD17-11	Lefort D/ Mostaghimi N					437.47	437.48	Qtz-vein with mo at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					439.86	440.25	Aplite dyke cross cut by bt-sulph and qtz-mo-cpy veinlets											
RVD17-11	Lefort D/ Mostaghimi N					442.06	442.78	Zone of large plag megacrysts altered to ser and silicified (mod)	Phyllic	1 m	Silica	m							
RVD17-11	Lefort D/ Mostaghimi N					443.56	446.08	Aplite dyke with varying granophyric textures											
RVD17-11	Lefort D/ Mostaghimi N					450.22	450.85	Strong bt-alteration zone aas bt-stringers			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					450.91	450.95	Open-space filling of cb-vein with multiple layers, including a qtz-cpy vein, all oriented at 60 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					452	453.27	Aplite dyke cross cut by cb-veinlets (3-4 per 10 cm) all oriented at 30 deg. TCA. Aplite dyke oriented at 25 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N	453.3	483.1	GRD	Granodiorite: Moderate potassic alteration with small sporadic intervals of phyllic overprint. One zone of weak to trace potassic and phyllic alteration at the top of the interval. Decrease in amount of aplite dykes however they are still common. Stockwork veins and veinlets occur throughout the majority of the interval. Mineralization decreases: Py: 1-2; Cpy: 0.5%; Po: 3-5%; Mo: 0.07%						Potassic	m	3	0.8	5	0.1			
RVD17-11	Lefort D/ Mostaghimi N					453.27	458.95	Weakly phyllic and trace-weakly potassic altered; Py: 1-2; Cpy: 0.5%; Po: 3-5%; Mo: 0.07%	Phyllic	1 tr	Potassic	tr	1.5	0.5	4	0			
RVD17-11	Lefort D/ Mostaghimi N					453.98	454.6	1-2 per 10 cm bt-sulph veinlets at 45 deg. TCA.											
RVD17-11	Lefort D/ Mostaghimi N					454.36	454.37	Qtz-po-cpy vein at 30 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					458.28	458.54	Sec. bt (altered to chl)-cpy-py-qtz- stringers at 55 deg TCA cross cut by cb-veinlets at 20 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					458.95	459.24	Weak-moderate potassic alteration with pervasive silica and bt veinlets at 40 deg. TCA carrying po-cpy			Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					460.54	460.95	Moderate potassic alteration zone with high density of bt-veins (5 per 10 cm) at 40 deg. TCA											

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RVD17-11	Lefort D/ Mostaghimi N					461.72	462.14	Moderate ser and weak to moderate cb alteration. Granophyric texture also observed.	Carbonate	w	Phyllic 1	m							
RVD17-11	Lefort D/ Mostaghimi N					462.05	462.06	1.5 cm wide cb-vein exposing earlier chl-veinlets cuts the rock at 55 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					462.14	466.14	Weak potassic with small intervals of moderate potassic alteration (pervasive bt and bt-veinlets). Weak to moderate phyllic alteration is pervasive with white to green coloured ser. No pink kspar - however, kspar may be overprinted by ser-clays	Phyllic 1	w	Potassic	w							
RVD17-11	Lefort D/ Mostaghimi N					466.14	466.41	Strong potassic alteration; elevated po: 3-4%; minor cpy			Potassic	s		0.9	3.5				
RVD17-11	Lefort D/ Mostaghimi N					467.31	467.32	Qtz-cpy-po-mo vein at 40 deg. TCA											
RVD17-11	Lefort D/ Mostaghimi N					470.33	483.11	Stockwork veins comprising of qtz-mo+/-cpy+/-po veinlets and bt(after chl)-veinlets and qtz-crystalline bt-sulph veins			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					467.95	467.96	po-cpy associated with mafic enclaves											
RVD17-11	Lefort D/ Mostaghimi N					470.33	470.35	Qtz-mo at 20 deg TCA											
RVD17-11	Lefort D/ Mostaghimi N					471.41	471.48	Aplite dyke oriented 25 deg. TCA altered to green colour (ser?) and cross cut by qtz vein			Phyllic 1	s							
RVD17-11	Lefort D/ Mostaghimi N					472.5	472.6	Qtz-vein cross cuts zone of diffuse bt and forest green chl (after bt) - the zone may be a large mafic enclave; elevated po			Potassic	s							
RVD17-11	Lefort D/ Mostaghimi N					472.53	473	Weak to moderate phyllic alteration - apple green ser	Phyllic 1	w									
RVD17-11	Lefort D/ Mostaghimi N					476	477.75	Wide, 1.5 cm wide barren qtz-vein at 0-5 deg. TCA slightly undulated and almost sharp margins.											
RVD17-11	Lefort D/ Mostaghimi N					476.48	476.49	This early, barren qtz-vein is cross cut by diffuse bt-veinlets and qtz-cpy-mo-veinlets											
RVD17-11	Lefort D/ Mostaghimi N					478.2	478.21	Py-cpy											

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RVD17-11	Lefort D/ Mostaghimi N					479.61	479.63	Fault cuts the rock at 55 deg. TCA and contains multiple veinlets including qtz-mo- and cb-veinlets											
RVD17-11	Lefort D/ Mostaghimi N					479.61	482.12	Strong silica and bt alteration is pervasive	Potassic	s	Silica	s							
RVD17-11	Lefort D/ Mostaghimi N					480.53	480.79	Cpy-po-mo associated with silica alteration			Silica	s							
RVD17-12	E. Adlakha	0	5	OVB	mostly overburden -broken core														
RVD17-12	E. Adlakha	5	58.03	GRA	Lithology: Melanocratic medium-grained granite (~50 %plagioclase, 30% quartz, 15% hornblende/biotite, 5% K-feldspar) that has been mechanically and chemically weathered. Euhedral megacrysts (~1cm) of feldspar are common. Drilling down a structural zone so core is broken and fragmented. Granite contains xenoliths of mafic enclave, quartz-feldspar porphyry and biotite-quartz porphyry, and dykes of aplite and QFP. Approx. 1 inch veins of black siliceous material containing fragmented feldspar and quartz crystals from the granite are common and are oriented ~45 deg TCA (photo at 52 m) Alteration: Orange-brown limonite coats stringers, fractures and broken core. Most stringers are quartz, dark chlorite and/or, biotite, and some are replaced by tan-white clay or weathered out. Feldspars in granite altered to orange-brown or yellow-white clay or preserve greenish clay alteration (saussertization?) when relatively unoxidized. Mineralization: Sulfides have been weathered out to brick-red iron oxides (hematite?) and hydroxides (photo at 25 m). Trace sulfides remain (see subliths).				Iron	I	Phyllic 1	W	0.1						
RVD17-12	E. Adlakha						15	black massive pyrolusite covering fracture											
RVD17-12	E. Adlakha						16	pyrite occurring in core of hematite vein											
RVD17-12	E. Adlakha					24.9	25.1	swarm of iron oxide stringers (photo)											
RVD17-12	E. Adlakha						36.53	Quartz-chlorite-pyrite veinlet perpendicular TCA											
RVD17-12	E. Adlakha					41.55	41.95	aplite dyke											
RVD17-12	E. Adlakha						52	quartz-epidote-pyrite veinlet perpendicular TCA											
RVD17-12	E. Adlakha	58.03	61.5	QFP	Lithology: Quartz-Feldspar Porphyry dyke with fine-grained 1mm phenocrysts of quartz and feldspar with very minor biotite set in medium grey aphanitic ground mass. Alteration: Late oxidization alters the rocks along fractures and stringers. Mineralization: No mineralization was observed.				Iron	M			0						
RVD17-12	E. Adlakha	61.5	125.5	GRA	Lithology: Melanocratic granite (plagioclase, quartz, hornblende/biotite, K-feldspar) that has been weakly to moderately oxidized. Euhedral megacrysts of feldspar are common. Drilling down a structural zone so core is broken and fragmented. Granite contains xenoliths of mafic enclaves. FG black mafic intrusion mixed with granite (soupy texture) occurs between 117.45 and 119 m (photo). Alteration: Orange-brown limonite coats stringers, fractures and broken core. Most stringers are quartz, dark chlorite and/or, biotite, and some are replaced by tan-white clay or weathered out (weathering decreases down hole). Stringers increase in abundance down hole, especially after 92 m. Feldspars in granite are weakly altered to sericite or greenish clay alteration (saussertization? - sample collected for thin section analyses) Mineralization: At the beginning of interval, sulfides are weathered out. Pyrite occurs as stringers and veinlets with quartz and/or chlorite and/or biotite. Chalcopyrite occurs in trace amounts as stringers, and occasionally within veinlets of quartz and/or biotite and/or chlorite. Molybdenite is rare but increasing downhole. It is rarely metallic but is evident by blue-black colour when disseminated in quartz an/or clay and occurs along fractures and quartz veinlets				Iron	m	Phyllic 1	w	0.5	0.1		0			
RVD17-12	E. Adlakha					62.08	62.21	QFP dyke with flat black aphanitic groundmass and fine-grained phenocrysts and sharp margins. Some granitic material incorporated into dyke.											
RVD17-12	E. Adlakha					64.39	65.25	QFP dyke with medium grey aphanitic groundmass and fine-grained quartz feldspar phenocrysts. Upper contact is silicified.											
RVD17-12	E. Adlakha						71.06	chlorite-chalcopyrite stringer											
RVD17-12	E. Adlakha						72.35	5mm quartz biotite pyrite vein 120 deg TCA											

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RVD17-12	E. Adlakha						84	1 mm cpy bleb in granite											
RVD17-12	E. Adlakha						85.7	cpy in quartz-chlorite stringer 60 deg TCA											
RVD17-12	E. Adlakha						85.86	py-cpy veinlet 3 mm 65deg TCA											
RVD17-12	E. Adlakha						89.23	chalcopyrite in pyrite vein 1 cm 130deg TCA											
RVD17-12	E. Adlakha					86.42	91.68	moderate phyllic alteration											
RVD17-12	E. Adlakha						93	low angle quartz-dolomite veinlet											
RVD17-12	E. Adlakha						93.88	quartz-biotite-chalcopyrite stringer 130deg TCA											
RVD17-12	E. Adlakha					95.15	96	moderate phyllic alteration											
RVD17-12	E. Adlakha					95.37	95.51	granite brecciated by black chlorite-quartz veining (photo)											
RVD17-12	E. Adlakha						96.62	finely disseminated pyrite with chlorite blebs											
RVD17-12	E. Adlakha						97.18	1mm pyrite veinlet with chalcopyrite and Fe-ox margins 130deg TCA (photo)											
RVD17-12	E. Adlakha						99.75	quartz-dolomite veinlet with possible cpy											
RVD17-12	E. Adlakha						99.88	quartz-clay-py with trace chalcopyrite stringers 25deg TCA											
RVD17-12	E. Adlakha						102.4	quartz-pyrite veinlet containing trace chalcopyrite 80deg TCA											
RVD17-12	E. Adlakha						102.55	molybdenite on fractured surface											
RVD17-12	E. Adlakha						105.16	quartz-biotite-cpy network of stringers											
RVD17-12	E. Adlakha						105.5	quartz-biotite-cpy stringer 45deg TCA											
RVD17-12	E. Adlakha					109.02	111.23	patchy pink potassic alteration of feldspar (photo - sample taken for staining)											
RVD17-12	E. Adlakha					110.77	110.88	strange shaped ?pegmatite? dyke (photo)											
RVD17-12	E. Adlakha						114.25	cpy bleb in chlorite-quartz stringer 130 degTCA											
RVD17-12	E. Adlakha						115	large 5 cm delta shaped pyrite mass											
RVD17-12	E. Adlakha					124.94	125.3	quartz flooding of groundmass, only megacrysts preserved which are sericitized.											
RVD17-12	E. Adlakha	125.5	152.6	GRA	Lithology: Same granite as above but without oxidation, and increase of sericite/green clay alteration and mineralization. Alteration: Weak-moderate pervasive whitish-green clay alteration (saussertization?) of feldspars and mafics. Possible early potassic alteration preserved as plagioclase alteration to K-feldspar (samples taken for staining at 133.35) Mineralization: Mineralization is characterized by veins, veinlets and stringers of black-blue quartz/finely disseminated molybdenite with pyrite and chalcopyrite +/- sericite along vein margins. Molybdenite content in veins can be high and give metallic sheen to fractured veins (e.g., picture at 133.6 m). Veins and veinlets (> 5mm, 80deg TCA) are relatively high in density averaging 2 to 3 per meter and are surrounded by a network of anastomosing fine stringers (e.g., photo at 130.25 m). In general, stringers are oriented near-perpendicular TCA. Mineralized veins cross-cut and sometimes brecciate earlier dolomite-quartz veins (e.g., photo at 130.90 m); although, sometimes dolomite-quartz veins cross-cut mineralized veins (photo at 132 m). Some veins contain fragmented crystals from the wall rock (e.g., photo at 148.65 m) Mineralization decreases in abundance downhole.				Phyllic	1	m	3	1		0.5			

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RVD17-12	E. Adlakha					141.2	143.5	weak phyllic alteration, low abundance of mineralization											
RVD17-12	E. Adlakha						150.7	cpy stringers with biotite selvages											
RVD17-12	E. Adlakha	152.6	156.6	GRA	Lithology: Same granite as above but altered to a deeper green and containing low abundance of mineralization. Alteration: Deep green (chlorite?) pervasive alteration of rock. Mineralization: Rare QSPM+cpy veinlets.				Phyllic 1	m			0.1	0		0			
RVD17-12	E. Adlakha						153.4	QSPM+cpy veinlet 1 mm 60deg TCA											
RVD17-12	E. Adlakha					156.24	156.36	dark green fault gouge											
RVD17-12	E. Adlakha	156.6	236.5	GRA	Lithology: Same granite, but with weak to moderate white-green pervasive phyllic alteration of feldspars and mafics. Granite contain aplite and QFP dykes. Alteration: White-green pervasive phyllic alteration. Possible early potassic alteration of feldspar to K-feldsar (samples taken for staining at 165.15 m) preserved. Potassic alteration evident by abundant patches of biotite alteration increasing downhole. Mineralization: Quartz-pyrite stringers and veinlets +/- sericite, cpy/moly occurs sporadically throughout unit (see subliths).				Phyllic 1	m	Potassic	w	2	0.1		0.1			
RVD17-12	E. Adlakha						158.3	QSPM+cpy stringer sub-perpendicular TCA											
RVD17-12	E. Adlakha						159.3	QSPM+cpy stringer sub-perpendicular TCA											
RVD17-12	E. Adlakha						161.53	pyrite-chalcopyrite on fracture											
RVD17-12	E. Adlakha						162.31	QSPM+cpy stringer sub-perpendicular TCA											
RVD17-12	E. Adlakha						163	2cm QSP+cpy vein 45deg TCA crosscut by dolomite vein											
RVD17-12	E. Adlakha						164	QSPM+cpy stringer sub-perpendicular TCA											
RVD17-12	E. Adlakha					164.7	168	multiple QSPM+cpy sub-perpendicular stringers											
RVD17-12	E. Adlakha					169.16	169.69	moderate biotite potassic alteration with trace stringers of QSP+cpy											
RVD17-12	E. Adlakha						170.59	QSP+cpy stringer											
RVD17-12	E. Adlakha						170.9	quartz-pyrite chalcopyrite-biotite stringer											
RVD17-12	E. Adlakha						172	quartz stringer brecciating granite											
RVD17-12	E. Adlakha						172.71	aggregate of pyrite with small cpy blebs											
RVD17-12	E. Adlakha					174.85	175.9	aplite dyke crosscut by blue-black quartz+/-moly, cpy stringers and bordered by biotite alteration (photo)											
RVD17-12	E. Adlakha					176	200	abundant quartz stringers +/- pyrite,moly,cpy											
RVD17-12	E. Adlakha					184.5	184.64	quartz-porphyry dyke with molly and trace cpy mineralization along its margins and cross-cutting the dyke											
RVD17-12	E. Adlakha						185.25	60deg TCA 1 cm quartz vein with molly pyrite and cpy											
RVD17-12	E. Adlakha						186.88	quartz-molly with trace cpy veinlet perpendicular TCA											
RVD17-12	E. Adlakha					189	189.31	reddish alteration - likely hematite - coating phyllic altered feldspars											

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RVD17-12	E. Adlakha						200.17	molly veinlet											
RVD17-12	E. Adlakha					201.76	206.7	patchy brown biotite alteration brecciated by quartz pyrite stringers (photo)											
RVD17-12	E. Adlakha						209.5	QSPM veinlets sub perpendicular											
RVD17-12	E. Adlakha						210.1	QSPM veinlets sub perpendicular											
RVD17-12	E. Adlakha						210.66	quartz pyrite chalcopyrite vein 1cm perpendicular											
RVD17-12	E. Adlakha						221.24	quartz-pyrite-molly-chalcopyrite stringer											
RVD17-12	E. Adlakha						222.21	molly coating a fracture											
RVD17-12	E. Adlakha					223.7	223.8	quartz sulfide molly breccia											
RVD17-12	E. Adlakha					224.8	225	quartz stringers with biotite alteration along margins											
RVD17-12	E. Adlakha						225.13	molly coating fracture											
RVD17-12	E. Adlakha						225.58	quartz-pyrite-molly vein 1 cm perpendicular with offshoot of quartz-chalcopyrite											
RVD17-12	E. Adlakha					226.3	226.7	moderate biotite alteration											
RVD17-12	E. Adlakha					229.27	229.34	quartz-molly veinlet along core axis											
RVD17-12	E. Adlakha					231.6	231.72	quartz-porphyry											
RVD17-12	E. Adlakha					234.28	234.27	3 mm quartz-molly-cpy veinlet along core axis											
RVD17-12	E. Adlakha						234.54	pyrite-cpy bleb											
RVD17-12	E. Adlakha					234.6	236.34	weak-moderate biotite alteration											
RVD17-12	E. Adlakha	236.5	238.8	QFP	Lithology: Quartz-Feldspar Porphyry dyke with fine-grained phenocrysts of quartz and feldspar with very minor biotite set in medium grey aphanitic ground mass. Alteration: Weak alteration of feldspar to sericite. Mineralization: Finely disseminated pyrite within groundmass and occasional chalcopyrite. Sulfide mass of pyrite with chalcopyrite occurs at 238.05 and a 8mm vein with quartz/dolomite at 238.40 approx. 80 deg TCA (photos)				Phyllic	1 w			1	0.5		0.1			
RVD17-12	E. Adlakha	238.8	251.4	GRA	Lithology: Same granite but with increasing biotite alteration and cpy-mo mineralization towards the base of the unit. Alteration: Weak to moderate biotite alteration within veinlets and as patches throughout core (sample sent for K-feldspar staining at 244.85), overprinted by weak phyllic alteration. Mineralization: Pyrite and chalcopyrite occurs within veinlets and stringers with quartz +/- biotite, and within matrix to breccias. Molybdenite occurs in trace amounts in some stringers.				Phyllic	1 w	Potassic	m	1	0.1		0.1			
RVD17-12	E. Adlakha					239.8	240.2	network of quartz-biotite-cpy-py stringers											
RVD17-12	E. Adlakha					240.58	240.6	quartz-molly-cpy vein 3 mm 35 deg TCA											
RVD17-12	E. Adlakha						241	quartz-bt-cpy vein 1 cm 80deg TCA											
RVD17-12	E. Adlakha					243.34	243.61	hydrothermal breccia of granite with quartz-sulfide (pyrite-chalcopyrite) matrix (photo)											
RVD17-12	E. Adlakha						243.81	vertical quartz-pyrite cpy stringer											
RVD17-12	E. Adlakha						243.85	45deg TCA dolomite-quartz vein brecciated by pyrite-chalcopyrite-molly and quartz											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-12	E. Adlakha					246.25	246.29	biotite breccia vein with sulfide (photo)											
RVD17-12	E. Adlakha	251.4	271	GRA	Lithology: Hydrothermally brecciated/replaced ore-grade granite. This interval contains abundant dykes ("finger" dyke photo at 260.75) of QFP, which are relatively unaltered and surrounded by haloes of quartz, dolomite and/or sulfide (photo at 252.40 and 252.70). Mineralization decreases toward the end of the interval, however, there are splashes of mineralization in the last meter of this interval. Alteration: Unit has been silicified. Dolomite veinlets and aggregates with sericite are common and sometime form vuggy cavities. Relict granitic patches exhibit light green-white phyllic alteration. Mineralization: Pyrite and chalcopyrite occur in veinlets and patches/masses cross-cutting/replacing granite and as fine-grained disseminations in quartz altered granite. Molybdenite occurs as aggregates of soft metallic indigo/black plate-like crystals commonly surrounding chalcopyrite masses (photo at 252.3 m) within dolomite/clay aggregates (254.85), anhedral non-metallic black-blue masses, and fine-grained disseminations through silicified matrix. Sphalerite occurs intermittently as large 1 cm scale anhedral masses and hexagonal 3mm crystals in dolomite/clay Pinkish silver fine-grained arsenopyrite occurs disseminated around chalcopyrite aggregates at 256.15 m (photo), 262.13, 266.54 (pyrrhotite in core of aggregate), 269.40 m. Average modal abundance of sulfide given; however, mineralization occurs in patches, therefore locally sulfides are up to 20%. Some areas (~1 to 2 m) contain low abundance of mineralization.				Phyllic 1	m	silica	m	5	3	0.5	2	asp	0.1
RVD17-12	E. Adlakha	271	422.9	GRA	Lithology: Same granite but with lower grade mineralization and less brecciation, more biotite alteration and less QPF dykes. Alteration: Alteration of this interval is characterized by early potassic (biotite +/- K-feldspar with quartz, pyrite, pyrrhotite, and chalcopyrite) and later phyllic (sericite, greenish clay, +/- quartz, pyrite, moly, cpy). It is evident that later phyllic alteration sometimes overprints early potassic alteration. Early pervasive biotite alteration (replacement of magmatic mafics and feldspar, photo at 325.20), and stringers of biotite (e.g. photo at 334.6), with trace disseminated chalcopyrite and quartz-pyrite/pyrrhotite-chalcopyrite veins, occurs in patchy (0.3 to 4 m in length) intervals (e.g., 283.85 to 284.05 m, 287 to 287.3 m, 314 to 318.5, and 320 to 324.98 m...), increasing in frequency downhole. Some quartz-pyrite veins are bordered by K-feldspar and remaining rock is overprinted by late phyllic alteration (e.g., photo at 331.5 m -sample for K-feldspar staining). Local silicification occurs with chalcopyrite masses at 296 to 296.5. Later weak (locally moderate to intense) pervasive green-white phyllic alteration replaces feldspars and mafics, and occurs as infrequent quartz-sericite-pyrite +/- stringers. Relict biotite with cpy is observed in some local phyllic alteration zones. Hydrothermal biotite alteration to reddish clay was observed in some moderately altered phyllic zones (e.g., photo at 347 to 347.30). At the end of the interval (409 to 422.91 m), phyllic alteration is intense and pervasive and likely related to two faults at 412.80 and 421.65 m. Quartz +/- dolomite veins are common and sometimes contain molybdenite, chalcopyrite, pyrite and/or pyrrhotite. Mineralization: Abundant molybdenite crystals disseminated in dolomite/clay mixture replacing granite at the top of the interval (until 279 m then drops off into randomly occurring patches of dolomite + moly and minor disseminations from 287 to 295). Chalcopyrite occurs within aggregates of pyrite and in quartz-pyrite veinlets, but decreases down hole, becoming trace in abundance after ~280 m occurring in quartz pyrite stringers and patches of biotite alteration. Large masses of chalcopyrite with pyrite, dolomite and molybdenite observed 296 to 296.5, and 297.25 to 297.75 (photo). Pyrite occurs in aggregates, quartz veinlets (60 to 80deg TCA) and fine-grained disseminations in biotite alteration throughout the interval, but most abundant higher than 279 m). From 276.5 to 276.75, abundant pyrite +/- pyrrhotite, moly and chalcopyrite aggregates were observed (photo). After ~370 m, pyrrhotite increases in abundance and is more abundant than pyrite after ~395 m.				Phyllic 1	m	Potassic	m	0.5	0.1	0.5	0.1	0	
RVD17-12	E. Adlakha					337.98	338.3	moderate white green pervasive phyllic alteration overprinted potassic alteration, relict biotite with cpy still observed											
RVD17-12	E. Adlakha						339.6	quartz-sericite-chlorite string ~45deg TCA											
RVD17-12	E. Adlakha					348.26	350.72	QFP dyke rich in phenocrysts and moderately-intensely sericitized and containing quartz-pyrite stringers (photo)											
RVD17-12	E. Adlakha					354.21	351.78	quartz-dolomite-pyrite vein 3 cm along core axis											
RVD17-12	E. Adlakha					353.48	353.73	dolomite quartz breccia (photo)											
RVD17-12	E. Adlakha					354	354.5	1 cm dolomite-quartz vuggy vein along core axis											
RVD17-12	E. Adlakha						355	10 cm swarm of quartz-Bt stringers with trace cpy											
RVD17-12	E. Adlakha					356.33	356.38	dark blue radiating to anhedral tourmaline crystals (photo)											
RVD17-12	E. Adlakha						359.5	quartz-pyrite chalcopyrite 1 mm veinlet 45 deg TCA											

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RVD17-12	E. Adlakha					361.57	362.8	light grey aplite dyke with granophyric pegmatite margins and biotite alteration at contacts. Pyrite coats fractures. Approximately 1 meter of silicification in host granite on either side of dyke											
RVD17-12	E. Adlakha						368.85	quartz-chlorite-cpy stringer											
RVD17-12	E. Adlakha						371.85	2cm quartz vein possibly containing molybdenite occuring as fine-grained light blue disseminations											
RVD17-12	E. Adlakha					375.3	375.65	greenish grey aplite dye with 1.5 meter intense phyllic alteration (and possible disseminated molybdenite) of granite on either side of contact core on down-hole side of dyke is brecciated											
RVD17-12	E. Adlakha					376.31	376.6	1 cm quartz vein with py and cpy along core axis											
RVD17-12	E. Adlakha					378	402	pyrite abundance decreasing, while pyrrhotite abundance increases											
RVD17-12	E. Adlakha					384	385	disseminated molly with pyrite and chalcopyrite through weak-moderate phyllic zone overprinting biotite alteration											
RVD17-12	E. Adlakha					394	395	intense biotite veining causing brecciation with cpy and po (photo)											
RVD17-12	E. Adlakha					398	399	possible disseminated molly throughout moderate phyllic zone											
RVD17-12	E. Adlakha						402.55	2 cm quartz vein with biotite, pyrite, pyrrhotite approximately 75 deg TCA, and cross-cut by sericite veinlet 2mm											
RVD17-12	E. Adlakha					409	422.91	moderate white-green phyllic alteration overprinting biotite alteration											
RVD17-12	E. Adlakha						410.64	quartz vein 1 cm 70 deg TCA contains trace cpy with possible molybdenite											
RVD17-12	E. Adlakha						411.8	quartz vein 1 cm 70 deg TCA contains trace cpy with and molybdenite											
RVD17-12	E. Adlakha						412.44	2 diverging 1 cm quartz veins containing biotite, pyrrhotite, cpy, py and moly (photo)											
RVD17-13	N. Mostaghimi	0	13.72	GRD	Overburden. Rubble to small fragments (less than 5 cm). FeOx (4)														

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RVD17-13	N. Mostaghimi	13.72	50.41	GRD	Granodiorite contains 30-40% feldspar, 30-40% clear qtz, and 20-30% mafics (bt>hbl). Beginning of interval contains strongly weathered and oxidized rock with intervals of rubble and moderately to strongly fractured rock. Aplite dykes occur and are associated with zones of fractured rock. Granodiorite is weak to moderately propylitically altered and trace to weakly potassically altered. Late, weak carbonate alteration in the form of cb-veins and veinlets overprint everything. Veins are common of different mineral assemblages - typically propylitic and cb. Propylitic(?) veinlets are vfg and <1 mm wide and contain cpy-py-bt? and uneven chl selvage and occur 1 per 10 to 20 cm and appear similar to crystalline bt-cpy-py-qtz veins (same?). Specs of mal occur along fracture planes - typically associated with these veinlets. Other propylitic style veinlets occur that include <1 mm wide chl-ep and chl-sulph veinlets that vary in intensity from stockwork to 2-3 per 10 cm. Cb-veins occur 1 -3 per metre and cut the rock at 30-40 deg. TCA. Mineralization: Py: 3-4%; cpy: 0.4-0.6; po: 1-3%; mal: 0.2%; Cu wad: 0.6%				Propylitic	w	Potassic	w	3.5	0.5	2		mal	0.2
RVD17-13	N. Mostaghimi					13.72	18	Fractures occur 1-4 per 10 cm; FeOx (4); lim											
RVD17-13	N. Mostaghimi					18	23.35	1-2 fractures per 10 cm; FeOx (3); lim											
RVD17-13	N. Mostaghimi					19.45	19.53	Aplite dyke; 25 deg TCA											
RVD17-13	N. Mostaghimi					20.31	20.34	Fault brx; 65 deg. TCA; Qtz-vein											
RVD17-13	N. Mostaghimi					21.74	21.75	Qtz-vein at 25 deg. TCA with vugs filled with goe											
RVD17-13	N. Mostaghimi					22	22.1	Thin, qtz-veins with sharp margins at 75 deg. TCA and lim											
RVD17-13	N. Mostaghimi					23.35	23.91	Strongly fractured rock; FeOx (4); lim											
RVD17-13	N. Mostaghimi					23.91	24.38	FeOx (3); lim											
RVD17-13	N. Mostaghimi					23.91	23.94	Aplite dyke; 30 deg. TCA											
RVD17-13	N. Mostaghimi					24.97	24.98	Qtz-chl-cpy-py veinlet at 50 deg. TCA is wispy and cross cut by cb-veinlet											
RVD17-13	N. Mostaghimi					25.35	25.36	7 mm wide qtz-vein with strong lim and box-texture at 30 deg. TCA											
RVD17-13	N. Mostaghimi					26.56	26.57	Cpy-po along fracture											
RVD17-13	N. Mostaghimi					27.57	27.58	Sulph-chl-qtz veinlet at 45 deg TCA											
RVD17-13	N. Mostaghimi					30.15	30.17	Qtz-chl-minor mal-copper wad; 30 deg. TCA											
RVD17-13	N. Mostaghimi					24.38	32.43	FeOx (2); 1-2 fractures per 10 cm											
RVD17-13	N. Mostaghimi					30.15	50.41	Slight increase in cpy: 0.70%						0.7					
RVD17-13	N. Mostaghimi					32.8	33.53	Fractured rock; fragments <10 cm; 1-3 fractures per 10 cm											
RVD17-13	N. Mostaghimi					33.05	35.9	Strong chl-ep veinlets stockwork at 15 and 30 deg. TCA; propylitic alteration; These veinlets cross cut by qtz-cpy-py-chl(sec. chl?) at 45-50 and 0 deg. TCA every 1-2 per 10 cm			Propylitic	s							

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RVD17-13	N. Mostaghimi					35.9	39	Weak to moderate chl-ep veinlet stockwork			Propylitic	w							
RVD17-13	N. Mostaghimi					35.95	36.78	Strongly fractured rock; FeOx (3); cb-infill along fracture planes; lim											
RVD17-13	N. Mostaghimi					36.37	36.76	Aplite dyke at 30 deg. TCA; qtz-vein at upper contact											
RVD17-13	N. Mostaghimi					37	37.1	Aplite dyke at 35 deg TCA											
RVD17-13	N. Mostaghimi					38.97	41.45	Strongly fractured zone; FeOx (1); lim and goe											
RVD17-13	N. Mostaghimi					36.78	41.15	FeOx (1)											
RVD17-13	N. Mostaghimi					41.45	42	Weak pervasive ser alt zone			Phyllic 1	w							
RVD17-13	N. Mostaghimi					42.24	44.86	Weak foliation zone; 50 deg. TCA											
RVD17-13	N. Mostaghimi					47.39	47.4	Fracture at 30 deg. TCA with cb-infill and gouge.											
RVD17-13	N. Mostaghimi					48.38	49	Weak to trace pervasive ser alteration			Phyllic 1	w							
RVD17-13	N. Mostaghimi					49.17	49.18	Diffuse bt alteration at ~80 deg. TCA											
RVD17-13	N. Mostaghimi	50.41	86.7	GRD	Interval contains elevated intensities of propylitic (chl-ep-py) alteration to weak-moderate, overprinted by phyllic alteration in the form of weak to trace pervasive ser. Zones of sec bt(?) associated with ser alteration. Chl-ep veinlets are common and may occur as stockwork zones. Larger, qtz-ep veins are not common but cut the rock from 0-15 deg. TCA. Potassic alteration occurs sporadically as bt-stringers. Mineralization occurs as dissemination and within veinlets. Mineralization occurs within <5% of mafics, predominantly as py. Py: 2-3; cpy: 0.4-.6%; mo: 0.05%; po: 1%					Phyllic 1	w	Propylitic	w	2.5	0.5	1	0.1		
RVD17-13	N. Mostaghimi					50.41	52.59	Moderate to strong phyllic (ser alteration)			Phyllic 1	m							
RVD17-13	N. Mostaghimi					50.96	51.64	Fault at 20 deg. TCA with qtz-mo-py vein and healed gouge material; Mo: 5%; py: 5%; lower contact contains strong lim alteration.											
RVD17-13	N. Mostaghimi					53.21	53.22	Qtz-ep vein at 30 deg TCA cross cut by qtz-sulph at 80 deg. TCA											
RVD17-13	N. Mostaghimi					53.21	53.87	Moderate ep alteration			Propylitic	m							
RVD17-13	N. Mostaghimi					53.7	53.71	Qtz-ep vein at 30 deg TCA cross cut by qtz-sulph at 80 deg. TCA											
RVD17-13	N. Mostaghimi					52.59	57.56	Weak-trace sec. bt(?)			Potassic	w							
RVD17-13	N. Mostaghimi					52.59	61.23	Weak to trace pervasive ser alt			Phyllic 1	w							
RVD17-13	N. Mostaghimi					55.01	56	Qtz-chl-bt-cubic py vein at 0-5 deg. TCA with stockwork thin chl-(sec. bt after chl) veinlets that branch off											

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RVD17-13	N. Mostaghimi					55.84	58.88	Weak-moderate foliation at 55 deg. TCA defined by aligned and moderately oriented mafic primary minerals											
RVD17-13	N. Mostaghimi					61.23	63.36	Moderate chl-ep-ab alteration in the form of veins at 0-10 and 75 deg. TCA; increase in disseminated mineralization to <10% of mafic minerals - mostly py			Propylitic	m							
RVD17-13	N. Mostaghimi					64		Weak pervasive ser and sec. bt alteration	Phyllic 1	w	Potassic	w							
RVD17-13	N. Mostaghimi					65.53	65.84	Strong pervasive diffuse bt alteration and weak to moderate kspar alteration			Potassic	s							
RVD17-13	N. Mostaghimi					65.84	65.85	Cb-infill of fracture											
RVD17-13	N. Mostaghimi					68.26	68.58	Weakly fractured (2-3 per 10 cm) with lim along fracture planes											
RVD17-13	N. Mostaghimi					72	72.42	Weak to moderate pervasive apple-green ser alteration with weak cb alteration in the form of veins. Cb-veins are pink in colour and oriented 30 deg. TCA	Carbonatew		Phyllic 1	w							
RVD17-13	N. Mostaghimi					69.2	73	Py within chl-qtz veins increases, but veins only occur <1 per meter											
RVD17-13	N. Mostaghimi					74.56	74.82	Sheeted qtz-py-diffuse sec. bt envelope and halo - tr cpy at 60 deg. TCA (4-5 per 10 cm)			Potassic	s							
RVD17-13	N. Mostaghimi					75.23	75.57	Sheeted qtz-py-diffuse sec. bt envelope and halo - tr cpy at 60 deg. TCA (4-5 per 10 cm)			Potassic	s							
RVD17-13	N. Mostaghimi					75.57		Weak to trace potassic alteration			Potassic	w							
RVD17-13	N. Mostaghimi					77.78	77.79	Qtz-bt-py veinlet at 35 deg. TCA											
RVD17-13	N. Mostaghimi					79.99	80.34	Fractured zone (3-4 fractures per 10 cm) moderate to strong potassic alteration (pervasive diffuse bt alteration associated with veins)			Potassic	s							
RVD17-13	N. Mostaghimi	86.7	119.5	GRD	Granodiorite is overprinted by weak to moderate phyllic alteration. Qtz-mo-cpy-py veins or "B-veins" occur at 15-20 deg. TCA within a phyllic zone, and also at the start of a different style of potassic alteration. Weak- moderate potassic alteration. Trace to absent propytlitic alteration - chl-ep veinlets are uncommon but do occur. Mineralization increases associated with veins: Py: 2-3%; cpy: 0.4-0.6%; po: 1%; mo: 0.09%				Phyllic 1	w	Potassic	w	2.5	0.5	1	0.1			
RVD17-13	N. Mostaghimi					86.7	89.95	Moderate phyllic alteration includes pervasive apple green ser alteration and hem staining of feldspars (weak-mod).			Phyllic 1	m							

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RVD17-13	N. Mostaghimi					88.29	88.3	Qtz-vein at 45 deg. TCA associated with weak cb alt and hem staining											
RVD17-13	N. Mostaghimi					89.58	89.84	Qtz-mo-cpy-cpy veins are 5 mm wide, contain straight to undulating sharp margins and may contain centre alignment of mo mineralization indicative of "B-vein" styling associated with potassic alteration. Cpy: 3%; mo: 5%; py: 4%. The qtz-veins cross cut 75 deg. TCA oriented qtz-py-chl veins					4	3		5			
RVD17-13	N. Mostaghimi					91	91.1	Qtz-cpy veinlet											
RVD17-13	N. Mostaghimi					91	92	Weak-moderate pervasive apple green ser alt and hem-staining of feldspars			Phyllic	1 m							
RVD17-13	N. Mostaghimi					92.41	92.42	Qtz-mo veinlet at 35 deg. TCA											
RVD17-13	N. Mostaghimi					93.8	94.67	Trace to weak potassic alteration as veins. Trace to absent pervasive alt			Potassic	w							
RVD17-13	N. Mostaghimi					93.8	94.6	Weak foliation defined by orientation of aligned relatively fresh primary mafic minerals; at 50 deg. TCA											
RVD17-13	N. Mostaghimi					94.67	96.15	Weak to moderate pervasivve ser alteration			Phyllic	1 w							
RVD17-13	N. Mostaghimi					95.37	95.38	Fracture cb-infill at 25 deg. TCA											
RVD17-13	N. Mostaghimi					95.37	95.65	Forest green chl? Alteration			Phyllic	1 m							
RVD17-13	N. Mostaghimi					95.89	95.97	Qtz-py-cpy+/-po veins with bt-white kspar halos at 60-70 deg. TCA and a qtz-mo-cpy-py+/-po veinlet at 75 deg. TCA. No cross cutting relationship											
RVD17-13	N. Mostaghimi					96.15		Weak-trace ser alt			Phyllic	1 w							
RVD17-13	N. Mostaghimi					98.55	98.57	Qtz-cpy+/-po veinlet											
RVD17-13	N. Mostaghimi					98.83	100.51	Moderate ser and forest green chl(?)			Phyllic	1 m							
RVD17-13	N. Mostaghimi					100.51	101.84	Strong white ser and clay pervasive alteration			Phyllic	1 s							
RVD17-13	N. Mostaghimi					101.84	101.85	Qtz-sulph along fracture at 35 deg. TCA											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-13	N. Mostaghimi					101.84	103.03	Mod-strong pervasive ser and chl? Alteration. Phyllic			Phyllic 1	m							
RVD17-13	N. Mostaghimi					104.25	104.26	4 mm wide qtz-vein with sharp margins and a diffuse bt-envelope											
RVD17-13	N. Mostaghimi					105.6	106.81	Weak pervasive ser alteration			Phyllic 1	w							
RVD17-13	N. Mostaghimi					106.81	112.59	Mineralization elevates due to thin qtz-chl-py-cpy stockwork veinlets (2-4 per 10 cm); py: 6-8%; cpy: 0.8-1.2%			Potassic	s	7	1					
RVD17-13	N. Mostaghimi					105.6	105.61	4 mm wide qtz-vein with sharp margins and a diffuse bt-envelope											
RVD17-13	N. Mostaghimi					112.59	113.05	Moderate ser alteration is pervasive			Phyllic 1	m							
RVD17-13	N. Mostaghimi					113.05	113.77	Moderate to strong phyllic (ser alteration)			Phyllic 1	s							
RVD17-13	N. Mostaghimi					113.09	113.39	Strong stockwork qtz-mo-cpy-po veins with late cb-infill			Potassic	s							
RVD17-13	N. Mostaghimi					113.77	114.21	Moderate pervasive ser alteration			Phyllic 1	m							
RVD17-13	N. Mostaghimi					112.59	119.49	Mineralization increases due to increase in intensity of qtz-mo-cpy-po stockwork veins and continued thin qtz-chl-py-cpy veinlets: Py: 5-7; cpy: 3-5%; po: 2-3%; mo: 1-3%			Potassic	s	6.5	4	2.5	2			
RVD17-13	N. Mostaghimi	119.5	165.3	GRD	Granodiorite is intensely overprinted by potassic alteration that is defined by qtz-mo-po-cpy stockwork veins and thin chl-qtz-cpy-py veinlets. Kspar alteration halos are suspected to be common but all potassic alteration is overprinted moderately-strongly by phyllic alteration and therefore the feldspars are white to apple green in colour. Forest green ser or chl minerals are common and accompany strongly phyllic zones near veins and fractured zones. Mineralization is the strongest in this zone and occurs mostly as veins but as dissemination as well (20-25% of mafics are mineralized): py: 7-9%; cpy: 3-6%; po: 4-7%; mo: 2-6%					Potassic	i	8	4.5	5.5	4			
RVD17-13	N. Mostaghimi					119.49	120.26	Strong pervasive white coloured ser and clay alteration			Phyllic 1	s							
RVD17-13	N. Mostaghimi					119.6	119.61	Aplite dyke cuts the rock at 0-5 deg. TCA and is cross cut by qtz vienlets at 50 deg. TCA											
RVD17-13	N. Mostaghimi					120.4	120.52	Fault contains qtz-py-mo brecciated by later cb-open space filling; fault is oriented at 50 deg. TCA											
RVD17-13	N. Mostaghimi					122.18	122.81	Feldspar-crowded porphyry dyke is moderately pervasively altered											
RVD17-13	N. Mostaghimi					124.93	125.6	Moderate, pervasive hem staining of feldspars											
RVD17-13	N. Mostaghimi					125.6	126.33	Strong, pervasive ser alteration			Phyllic 1	s							

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RVD17-13	N. Mostaghimi					128.2	128.23	Strong cpy mineralization associated with qtz-stockwork											
RVD17-13	N. Mostaghimi					137.38	137.4	Qtz-mo-po-cpy-py vein with vugs and cb-infill. Po appears to fill in space to form long bladed shapes - possibly replacement of another mineral											
RVD17-13	N. Mostaghimi					141.45	141.48	Qtz-mo-po-cpy-py vein with vugs and cb-infill. Dialation vein?											
RVD17-13	N. Mostaghimi					152.68	161	Decrease in mineralization and moderate to strong potassic alteration. Qtz-vein stockwork is not as prevalent however it still occurs. Mineralization: py: 6-8%; cpy: 1-2%; po: 2 4%; mo: 1-2%; aspy: tr. Weak-trace phyllic overprint			Potassic	s	7	1.5	3	1.5		asp	0.001
RVD17-13	N. Mostaghimi					155.18	155.19	Wormy qtz-mo-cpy-po vein is 4-5 mm wide with sharp margins and mo is aligned along centre line and along vein margins - diagnostic of B-veins.											
RVD17-13	N. Mostaghimi					159.96	160.02	Qtz-cpy-po-mo-py vein along fault with cb-infill. Associated with hem-staining near structure; 50 deg. TCA											
RVD17-13	N. Mostaghimi					160.02	160.11	Hem-staining (3)											
RVD17-13	N. Mostaghimi					160.3	161	2nd chl(?) or green ser is moderate to strong			Phyllic 1	m							
RVD17-13	N. Mostaghimi					161	161.58	Strong ser and clay pervasive alteration of feldspars			Phyllic 1	s							
RVD17-13	N. Mostaghimi					161.58	165.29	Moderate-strong cb alteration and weak-moderate phyllic alteration overprint. Decrease in mineralization. Increase in aspy mineralization	Carbonatem		Phyllic 1	w	5	0.8	2	0.5		asp	0.2
RVD17-13	N. Mostaghimi					163.02	163.04	Fracture/qtz-mo-cpy-po-py vein with aspy. Cb-infill; 30-40 deg. TCA										asp	0.8
RVD17-13	N. Mostaghimi					164.38	164.59	Fractured zone (2-3 fractures per 10 cm)											
RVD17-13	N. Mostaghimi	165.3	232.7	GRD	Moderate to strong potassic alteration zone - strong pervasive and veinlet related bt alteration. Phyllic alteration overprint varies from zones of weak to moderate to zones of moderate to strong. In zones of weak to moderate phyllic alteration, propylitic chl-ep are uncommon but observed cross cut by potassic alteration. Early diffuse-bt stringers and qtz-veins with sharp margins and bt-envelopes are cross cut by qtz-cpy-mo+/-po+/-py veinlets with kspar halos associated with possible later potassic alteration events. Asp mineralization increases and is associated with qtz-mo-sulph veins that have been open-space filled by cb. Mineralization: py: 1-3%; cpy: 0.6-0.8; po: 1%; mo: 0.4-0.7%; aspy: 0.8-1.2%			Phyllic 1	m	Potassic	m	2	0.7	1	0.6		asp	1

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RVD17-13	N. Mostaghimi					165.29	167	Fault zone contains both gouge material. Fault comprises a Qtz-vein with cb-infil and a more recent chalcedony- open-space filling. Upper contact is oriented at 60 deg. TCA and lower contact at 60 deg. TCA												
RVD17-13	N. Mostaghimi					165.29	166.67	Gouge and healed-gouge material											
RVD17-13	N. Mostaghimi					166.67	167	Fault occurs at 60 deg. TCA. Chalcedony brecciated the cb-infill qtz-mo-cpy vein that previously occupied this fault.											
RVD17-13	N. Mostaghimi					167.17	167.64	Strong clay and ser white coloured alteration zone			Phyllic 1	s							
RVD17-13	N. Mostaghimi					169.15	169.17	Aspy occurs on a fractured surface at 35 deg. TCA.										asp	50
RVD17-13	N. Mostaghimi					167.64	174.84	Strong potassic alteration overprinted by weak-moderate phyllic alteration	Phyllic 1	w	Potassic	s							
RVD17-13	N. Mostaghimi					174.57	174.58	1.5 cm wide qtz-mo-sulph vein with later asp and cb-infill at 60 deg. TCA											
RVD17-13	N. Mostaghimi					175.36	175.45	Aplite dyke with granophyric textures along margins cuts the granodiorite at 40 deg. TCA											
RVD17-13	N. Mostaghimi					176.8	176.81	Qtz-vein with bt-envelope and sharp margins cuts the rock at 30 deg. TCA and is infilled with cb											
RVD17-13	N. Mostaghimi					179.05	179.29	Large qtz-vein with tr sulph cross cuts early diffuse bt-alteration/stringers											
RVD17-13	N. Mostaghimi					179.87	180.06	Large qtz-vein with tr sulph											
RVD17-13	N. Mostaghimi					181.17	181.21	Aplite dyke at 65 deg. TCA cross cut by qtz-veins with sharp margins and bt-envelopes											
RVD17-13	N. Mostaghimi					182.27	182.32	Aplite dyke at 35 deg. TCA											
RVD17-13	N. Mostaghimi					184.63	186.83	Intense potassic alteration associated with qtz-stockwork veins with diffuse bt-envelopes and diffuse pervasive bt alteration and diffuse bt stringers; pervasive kspar alteration also occurs			Potassic	i							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-13	N. Mostaghimi					185.55	185.68	Moderate phyllic alteration zone			Phyllic 1	m							
RVD17-13	N. Mostaghimi					186.83	187.37	Moderate pervasive phyllic alteration zone; ser replacement of feldspars			Phyllic 1	m							
RVD17-13	N. Mostaghimi					187.37	193.31	Weak-trace propylitic; weak-trace propylitic and trace phyllic overprint. Vein intensity occurs <1 per 10 cm	Phyllic 1	tr	Propylitic	w							
RVD17-13	N. Mostaghimi					193.31	199.58	Moderate-strong phyllic alteration associated with an increase in veins.			Phyllic 1	m							
RVD17-13	N. Mostaghimi					193.56	1943.6	Qtz-sulph vein with dilation jog and asp mineralization; 60 deg TCA											
RVD17-13	N. Mostaghimi					194.92	194.94	Hem-staining (2) associated with qtz-cpy-py veinlet that cuts the rock at 80 deg. TCA											
RVD17-13	N. Mostaghimi					196.67	196.86	Fault cuts the rock at 60 deg. TCA; Gouge and qtz-mo-py-asp with cb-infill are associated with fault											
RVD17-13	N. Mostaghimi					199.58	200.49	Weak phyllic overprint of moderate potassic alteration	Phyllic 1	w	Potassic	m							
RVD17-13	N. Mostaghimi					200.49	202.67	Moderate phyllic overprint of moderate potassic alteration (standard for interval)	Phyllic 1	m	Potassic	m							
RVD17-13	N. Mostaghimi					202.67	204.52	Weak phyllic and potassic alteration	Phyllic 1	w	Potassic	w							
RVD17-13	N. Mostaghimi					207.26	207.59	Fractured rock and rubble; strong cb alteration along fractures			Carbonate	w							
RVD17-13	N. Mostaghimi					207.59	211	Weak potassic alteration with weak phyllic overprint	Phyllic 1	w	Potassic	w							
RVD17-13	N. Mostaghimi					211	215.13	Strong phyllic overprint			Phyllic 1	s							
RVD17-13	N. Mostaghimi					215.13	216.35	Fault zone with intense vein density; mostly healed gouge; 60 deg. TCA; qtz-mo-py are common with strong cb alteration			Carbonate	s							
RVD17-13	N. Mostaghimi					216.35	219	Strong phyllic overprint			Phyllic 1	s							
RVD17-13	N. Mostaghimi					219	219.93	Moderate phyllic overprint of weak to moderate potassic	Phyllic 1	m	Potassic	w							
RVD17-13	N. Mostaghimi					219.93	223.43	Strong phyllic overprint			Phyllic 1	s							
RVD17-13	N. Mostaghimi					222.64	222.65	Qtz-py-vein with cb-infill and asp; proximal to hem staining; 60 deg. TCA											

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RVD17-13	N. Mostaghimi					223.43	225.25	Weak-trace phyllic overprint of weak potassic alteration	Phyllic 1	w	Potassic	w							
RVD17-13	N. Mostaghimi					225.25	225.68	Strongly fractured zone of rock; Cb alteration is strong along fracture planes			Carbonate	s							
RVD17-13	N. Mostaghimi					225.68	226.03	Strong phyllic overprint			Phyllic 1	s							
RVD17-13	N. Mostaghimi					226.03	228.59	Weak-tr phyllic overprint of weak to moderate potassic alteration	Phyllic 1	tr	Potassic	w							
RVD17-13	N. Mostaghimi					228.59	229.18	Moderate to strong phyllic (ser alteration)			Phyllic 1	s							
RVD17-13	N. Mostaghimi					229.18	230.54	Moderate phyllic			Phyllic 1	m							
RVD17-13	N. Mostaghimi					230.54	231.4	Weak to trace phyllic overprint of strong potassic defined by pervasive diffuse bt and diffuse bt-stringers	Phyllic 1	tr	Potassic	s							
RVD17-13	N. Mostaghimi					231.4	232.32	Moderate ser and moderate silica alteration	Phyllic 1	m	Silica	m							
RVD17-13	N. Mostaghimi					232.32	232.65	Weak to moderate propylitic and potassic alteration	Phyllic 1	w	Potassic	w							
RVD17-13	N. Mostaghimi	232.7	277	GRD	Moderate to strong phyllic overprint of granodiorite. Phyllic alteration occurs as pervasive white and apple green ser alteration of feldspars. Increase in mineralization from the previous interval associated mostly with stockwork qtz-veins that vary in intensity throughout the interval from strong to intense. Faulted zone occurs within this interval associated to the qtz-stockwork and crowded feldpsar prophyry dyke intrusions. Intermittent zones of potassic alteration occur that comprise stockwork qtz-mo-cpy+/-po+/-py veins. Mineralization: py: 3-5%; cpy: 0.3-0.6%; po: 0.5-0.8%; mo: 0.7%; asp: 0.2-0.4%; sph: 0.1-0.2%			Phyllic 1	s	Potassic	w	4	0.5	0.7	0.7		asp	0.3
RVD17-13	N. Mostaghimi					237.02	237.04	Qtz-py-sph vein with open-space filling and brecciation of vein with chalcedony; 50 deg. TCA											
RVD17-13	N. Mostaghimi					238.07	245	Weak-moderate hem-staining associated with veins											
RVD17-13	N. Mostaghimi					238.38	238.39	Open-space fill qtz-vein with cb-infill, py and hem-stain and kspar halo; 65 deg. TCA											
RVD17-13	N. Mostaghimi					241.32	241.33	Conjugate chalcedony-veins at 30 deg. TCA											
RVD17-13	N. Mostaghimi					243.37	255.77	Strong-intense qtz-stockwork veins			Potassic	s	4	0.9	0.7	1.5			
RVD17-13	N. Mostaghimi					205.66	205.69	Qtz-stockwork with mo-cpy mineralization			Potassic	s							
RVD17-13	N. Mostaghimi					248.59	248.61	Bright turquoise oxidation mineral along fracture surface at 20 deg. Tca											
RVD17-13	N. Mostaghimi					251.34	251.35	Fault brx; 60 deg. TCA with asp-py and cb-infill											
RVD17-13	N. Mostaghimi					253.35	253.64	Brecciated fault-healed, with chalcedony and cb; py-mo; 60 deg. TCA											

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RVD17-13	N. Mostaghimi					253.73	253.81	Brecciated fault-healed, with chalcedony and cb; py-mo; 30 deg. TCA											
RVD17-13	N. Mostaghimi					253.98	254.5	Brecciated fault-healed, with chalcedony and cb; py-mo; 60 deg. TCA											
RVD17-13	N. Mostaghimi					255.77	255.41	Fault zone with gouge; 45 deg. TCA											
RVD17-13	N. Mostaghimi					256.63	258.49	Crowded feldspar porphyry dyke with gradational contact with granodiorite; mineralized by veins											
RVD17-13	N. Mostaghimi					258.49	259.16	Healed-fault zone; gouge; 60 deg. TCA											
RVD17-13	N. Mostaghimi					259.16	260.09	Crowded feldspar porphyry dyke with gradational contact with granodiorite; mineralized by veins											
RVD17-13	N. Mostaghimi					260.09	270.39	Strong-intense qtz-stockwork veins			Potassic	i	4	0.9	0.7	1.5			
RVD17-13	N. Mostaghimi					263.4	263.43	Qtz-mo-py-asp vein with cb-infill; at 60 deg. TCA											
RVD17-13	N. Mostaghimi					264.84	264.87	Qtz-mo-py-asp vein with cb-infill; at 60 deg. TCA											
RVD17-13	N. Mostaghimi					268.67	268.7	Qtz-mo-py-asp vein with cb-infill; at 40 deg. TCA											
RVD17-13	N. Mostaghimi					269	269.05	Qtz-vein with specs of mo mineralization											
RVD17-13	N. Mostaghimi					269.94	269.97	Hem-stained aplite dyke; 70 deg. TCA											
RVD17-13	N. Mostaghimi					270.39	270.42	Qtz-mo-py-asp vein with cb-infill; at 65 deg. TCA											
RVD17-13	N. Mostaghimi					270.52	270.76	Aplite dyke at 45 deg. TCA											
RVD17-13	N. Mostaghimi					270.71	270.76	Aplite dyke at 40 deg. TCA											
RVD17-13	N. Mostaghimi					270.89	271.05	Aplite dyke at 35 deg. TCA											
RVD17-13	N. Mostaghimi					273	273.05	Qtz-mo-py-asp vein with cb-infill; at 60 deg. TCA											
RVD17-13	N. Mostaghimi					278.62	276	Fault with healed gouge; 45 deg. TCA											
RVD17-13	N. Mostaghimi					276.75	276.76	QSP; qtz-py vein with ser halo. Qtz vein contains sharp margins and are 2-3 mm wide. Ser halo are 3 mm on either side; 45 deg TCA											
RVD17-13	N. Mostaghimi	277	338.7	GRD	Moderate to strong phyllic alteration overprints granodiorite in intermittent intervals. Between zones of phyllic alteration, zones of weak to trace potassic alteration occur. Potassic alteration is defined by . Silica alteration can range from trace to strong in zones of less phyllic over print. Cpy occurs with py, as well as with qtz-mo-py+/-po viens. Mineralization: py: 2%; cpy: 0.2-0.4%; po: 0.75%; mo: 0.5-0.8%				Phyllic	1 m	Potassic	tr	2	0.3	0.8	0.7			

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RVD17-13	N. Mostaghimi					276.97	278.17	Weak sporadic bt-qtz alteation. Diffuse bt and qtz-veins; potassic alteration			Potassic	w							
RVD17-13	N. Mostaghimi					278.17	280.17	Weak to trace silica alteration			Silica	tr							
RVD17-13	N. Mostaghimi					280.17	283.07	Weak pervasive ser alt and weak pervasive silica alteration	Phyllic 1	w	Silica	w							
RVD17-13	N. Mostaghimi					281.46	281.73	Hem-stained aplite dyke; 40 deg. TCA											
RVD17-13	N. Mostaghimi					283.07	390	Moderate phyllic alteration defined by QSP veins that are not common (<1 per 10 cm) and pervasive ser alteration			Phyllic 1	m							
RVD17-13	N. Mostaghimi					290	290.97	Strong phyllic overprint			Phyllic 1	s							
RVD17-13	N. Mostaghimi					290.97	293.46	Weak to trace ser alt; trace-weak propylitic	Phyllic 1	tr	Propylitic	tr							
RVD17-13	N. Mostaghimi					291.22	291.23	Qtz-po-cpy with ser halo											
RVD17-13	N. Mostaghimi					293.46	293.96	Mod phyllic alteration; green ser			Phyllic 1	m							
RVD17-13	N. Mostaghimi					295.24	298.11	Fault zone; 30 deg. TCA; healed-gouge; qtz-mo-py veins brecciated by cnb-infill; later chalcedony infill and brecciation											
RVD17-13	N. Mostaghimi					298.11	301.65	Increase in mineralization; mod cb alteration + strong silica alt	Carbonatem		Silica	s	2	0.6	1	0.1			
RVD17-13	N. Mostaghimi					302.83	303.83	Strong pervasive ser alteration			Phyllic 1	s							
RVD17-13	N. Mostaghimi					303.83	309.58	Weak to trace potassic and trace phyllic alt	Phyllic 1	tr	Potassic	tr							
RVD17-13	N. Mostaghimi					307.56	307.64	Aplite dyke at 60 deg. TCA											
RVD17-13	N. Mostaghimi					309.94	309.97	Qtz-mo-py open-space filling vein with cb-infill											
RVD17-13	N. Mostaghimi					309.58	311.96	Strong phyllic overprint			Phyllic 1	s							
RVD17-13	N. Mostaghimi					311.96	312.39	Weak phyllic alteration			Phyllic 1	w							
RVD17-13	N. Mostaghimi					312	312.39	Weak to mod potassic alteration; diffuse bt and qtz veins			Potassic	w							
RVD17-13	N. Mostaghimi					312.39	315.55	Strong phyllic alt			Phyllic 1	s							
RVD17-13	N. Mostaghimi					314.5	314.92	Fault zone; open-space vein filling											

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RVD17-13	N. Mostaghimi					314.5	314.8	Main fault - vuggy vein with cb-infill and chalcedony causing brecciation											
RVD17-13	N. Mostaghimi					315.55	324.82	Increase in mineralization associated with moderate intensity (2-3 per 10 cm) qtz-stockwork veinlets and independent qtz-mo-cpy veins (1 per 2 metres). Potassic alteration is weak-trace			Potassic	w	3	0.8	2	0.4			
RVD17-13	N. Mostaghimi					315.55	316.5	Weak potassic alteration			Potassic	w							
RVD17-13	N. Mostaghimi					316.5	324.82	Strong phyllic overprint				s							
RVD17-13	N. Mostaghimi					321.29	321.62	Aplite dyke; 30 deg TCA; with small zones of granophyric texture within the dyke			Phyllic 1								
RVD17-13	N. Mostaghimi					322.48	322.5	Strong cpy-mo-po associated with qtz-veins (stockwork)			Potassic	s		15	5	1			
RVD17-13	N. Mostaghimi					324.82	325.68	Trace potassic - phyllic	Phyllic 1	tr	Potassic	tr							
RVD17-13	N. Mostaghimi					325.68	329.85	Qtz-stockwork with mo-cpy mineralization			Potassic	s	3	0.8	2	0.4			
RVD17-13	N. Mostaghimi					329.85	330.48	Trace potassic - phyllic	Phyllic 1	tr	Potassic	tr							
RVD17-13	N. Mostaghimi					330.48	332.22	Moderate to strong phyllic (ser alteration)			Phyllic 1	m							
RVD17-13	N. Mostaghimi					332.22	335	Weak phyllic alteration			Phyllic 1	w							
RVD17-13	N. Mostaghimi					335	337.24	Weak-trace potassic; occurs as pervasive sec. kspar; bt-stringers; diffuse bt (after chl?)			Potassic	w							
RVD17-13	N. Mostaghimi					334.8	337.24	Zone of high density of mafic enclaves; 2 per 10 cm; each is >5 cm large											
RVD17-13	N. Mostaghimi					337.24	338.32	Fractured zone of rock											
RVD17-13	N. Mostaghimi					337.39	337.41	Fault with cb-infill; 30 deg. TCA											
RVD17-13	N. Mostaghimi	338.7	452.6	GRD	Granodiorite cross cut by ~10 cm wide aplite dykes. Granodiorite is overprinted by small intermittent zones of potassic alteration and small weak-moderate phyllic alteration. Phyllic alteration is associated with qtz-po veins with ser halos. Mineralization is very low grade, however mineralization does occur within zones of hydrothermal alteration, associated with qtz-veins. Fault zone with strong phyllic alteration zone occurs near EOH associated with weak-moderate stockwork qtz-veins with cpy-mo mineralization (low). Mineralization: py: 2-3%; cpy: 0.3-0.5%; po: 1-1.5%; mo: 0.6-0.9%					Phyllic 1	tr	Potassic	tr	2	0.4	1.3	0.8			
RVD17-13	N. Mostaghimi					338.72	338.9	Aplite dyke at 45 deg. TCA											
RVD17-13	N. Mostaghimi					338.9	342.9	Trace phyllic alt			Phyllic 1	tr							

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RVD17-13	N. Mostaghimi					340.24	340.31	Aplite dyke at 30 deg. TCA											
RVD17-13	N. Mostaghimi					342.9	343.82	Weak phyllic alteration; sheeted qtz-veinlets; zone of slightly increased mineralization; very low-grade			Phyllic 1	w							
RVD17-13	N. Mostaghimi					346.6	350.2	Qtz-po-cpy with ser halo; 50 deg. TCA											
RVD17-13	N. Mostaghimi					351.04	351.17	Aplite dyke at 35 deg. TCA											
RVD17-13	N. Mostaghimi					355.64	355.68	Aplite dyke at 50 deg TCA											
RVD17-13	N. Mostaghimi					356.49	356.61	Aplite dyke at 40 deg. TCA											
RVD17-13	N. Mostaghimi					357.12	357.2	Aplite dyke at 45 deg. TCA											
RVD17-13	N. Mostaghimi					368.41	368.83	High density of mafic enclaves											
RVD17-13	N. Mostaghimi					369.3	369.38	Aplite dyke with pegmatitic texture; 65 deg. TCA											
RVD17-13	N. Mostaghimi					369.3	370.79	Weak ser alteration			Phyllic 1	w							
RVD17-13	N. Mostaghimi					371.64	372.06	Moderate potassic alteration defined by kspar,diffuse bt, cpy-po also occur			Potassic	m							
RVD17-13	N. Mostaghimi					377.07	378.09	Moderate phyllic alteration			Phyllic 1	m							
RVD17-13	N. Mostaghimi					379.61	383.95	Bt(after chl?)-stockwork veinlets are moderate in intensity			Potassic	m							
RVD17-13	N. Mostaghimi					382.29	383.95	Mod-strong phyllic overprint of potassic alteration	Phyllic 1	m	Potassic	w							
RVD17-13	N. Mostaghimi					383.95	384.08	Qtz vein at 45 deg TCA											
RVD17-13	N. Mostaghimi					390.5	393.37	Strong phyllic overprint and moderate to strong cb alteration associated with fractured rock	Carbonates		Phyllic 1	s							
RVD17-13	N. Mostaghimi					391.26	391.27	Fracture infill of cb											
RVD17-13	N. Mostaghimi					396.53	396.59	Aplite dyke; 50 deg. TCA											
RVD17-13	N. Mostaghimi					404.18	404.28	Qtz-vein with ser halo; 60 deg. TCA											
RVD17-13	N. Mostaghimi					405.44	405.46	Aplite dyke; 45 deg. TCA											
RVD17-13	N. Mostaghimi					406.91	406.94	Aplite dyke; 40 deg. TCA											

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RVD17-13	N. Mostaghimi					406.27	406.41	Aplite dyke; 35 deg. TCA											
RVD17-13	N. Mostaghimi					413.75	413.93	Aplite dyke; 55 deg. TCA											
RVD17-13	N. Mostaghimi					414.56	414.69	Aplite dyke; 60 deg. TCA											
RVD17-13	N. Mostaghimi					415.33	415.6	Aplite dyke; 50 deg. TCA											
RVD17-13	N. Mostaghimi					417.47	417.63	Aplite dyke; 40 deg. TCA											
RVD17-13	N. Mostaghimi					392	452.63	Fresh rock with trace potassic and intermittent weak to moderate zones of phyllic alteration	Phyllic 1	tr	Potassic	tr							
RVD17-13	N. Mostaghimi					424.66	432	Strong phyllic overprint; moderate to strong cb alteration	Carbonatem		Phyllic 1	s							
RVD17-13	N. Mostaghimi					425.17	428.95	Fault zone; 30 deg. TCA; contains healed-gouge, gouge, and brecciated zone with clasts of qtz-cb and matrix of chalcedony											
RVD17-13	N. Mostaghimi					425.4	425.54	Fault; 60 deg. TCA; gouge											
RVD17-13	N. Mostaghimi					425.7	425.83	BRX zone; 60 deg. TCA											
RVD17-13	N. Mostaghimi					425.83	427.34	Gouge zone; 30 deg. TCA											
RVD17-13	N. Mostaghimi					427.34	427.72	Brecciated zone; BRX; 30 deg. TCA											
RVD17-13	N. Mostaghimi					427.72	428.95	Healed-gouge											
RVD17-13	N. Mostaghimi					430.94	430.95	Fault; gouge; 40 deg. TCA											
RVD17-14	L. Bickerton	0	33	OVB															
RVD17-14	L. Bickerton	33	54.5	GRD	Lithology: light to dark grey, medium-grained, equigranular to fsp-megacrystic biotite-hornblende granodiorite with variable alteration. Rock is approx. 55% plag, 20% qtz, 15% Ksp (including euhedral zoned megacrysts, 2-4cm), and ~10% mafics (biotite>hornblende). Locally, this unit has mafic enclaves (rounded, < or =12cm) that are biotite rich (assimilated YTT?). Rock is weakly to non-magnetic apart from where moderate propylitic alteration occurs (secondary mag+/-pyrrhotite?). Alteration: moderate propylitic alteration with albite+/-epi pervasively replacing plag throughout the rock, particularily in haloes of veins described below, and chl+/-mag replacing mafics (bio and hbl). A sub-interval at 41.4-43.14m has strong propylitic alteration with pervasive chl+/-epi stockwork veins and replacement (could be after bio?). Another pair of sub-intervals at 46.2-47.24m and 49.55 – 51.7m have an increased amount of iron staining in the granodiorite. Could be pervasive limonite or Fe-Carb(?) with accessory titanite. Mineralization: Uncommonly there is disseminated py and po, related to prop. Alt 1. chl-epi+/-pyr. Stringer to ~2-3cm branching veinset, locally forming stockwork at ~41.3-43m. Haloes w/ alb replacing fsps. 15/m, 10-30tca. 2. qtz+/-pyr, cpy, mo. Planar, ~0.1-1cm, 20tca, 2/m 3. ser+/-Fe-Carb. Stringer, ~25-30tca, 2/m. Sulfides: Overall, interval contains 0.1% py, 0.01%cpy, 0.01%mo, 0.05%po	42.96	43.14	appears to be a feldspar-phyric porphyry (could be mafic enclave?) crosscutting parallel and next to a thin (<10cm) aplitic dyke. Plag +/- ksp phenocrysts in an intermediate fine-grained chl-bio groundmass. Phenos are lath shaped (<1cm) and make up ~5% of unit.	Propylitic m				0.1	0	0.1	0			

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RVD17-14	L. Bickerton					41.4	43.14	strong propylitic alteration with pervasive chl+/-epi stockwork veins and replacement (after bio?)	Propylitic	s			0.2	0.1	0.2	0			
RVD17-14	L. Bickerton					46.2	47.24	increased amount of iron staining in the granodiorite. Could be pervasive limonite or Fe-Carb(?) with accessory titanite.	Iron	s	propylitic	w	0.1		0.1				
RVD17-14	L. Bickerton					49.55	51.7	increased amount of iron staining in the granodiorite. Could be pervasive limonite or Fe-Carb(?) with accessory titanite.	Iron	s	propylitic	w	0.1		0.1				
RVD17-14	L. Bickerton	54.5	70.1	GRD	Lithology: similar to above interval, light to dark grey, fine- to medium-grained, equigranular biotite-hornblende granodiorite. In comparison to above unit, less alteration and appears to be finer grained with less quartz content. Rock is weakly to non-magnetic. Alteration: weak to moderate propylitic alteration with albite+/- calcite replacing fsp throughout the rock, particularily in haloes of chl veins. chl is dominant alteration mineral of mafics (bio and hbl), with lesser pyr, po, and locally this is seen to be a peach-pink clay(?) mineral - leucoxene?. Mineralization: Uncommonly there is disseminated py and po, related to propylitic alteration 1. chl+/-qtz, pyr, epi, po. Stringer to ~1cm, sometimes branching. Haloes w/ alb+/-cal (frep). 11/m, 10-40tca. 2. qtz-pyr-po+/-cpy stringers, irregular to planar, 15-40tca, 10/m 3. qtz+/- cpy, mo, po w/ SiO2 flood halo. open spaced planar to anastamosed stringers, ~5-3cm, 70tca, 2/m 4. Fe-Carb. Stringer, ~25-30tca, 4/m. Late calcite fill in the veins above a part of this event? Sulfides: Overall, interval contains 0.3% py, 0.1%cpy, 0.03%mo, 0.5%po	65.66	66.1	fault gouge (predominantly) with some blocks of heavily altered/veins GRD. Similar veins to set 3 + arseopyrite?	Propylitic	m			0.3	0.1	0.5	0			
RVD17-14	L. Bickerton	70.1	78	GRD	Lithology: same lithology as above, core now reduced to NTW (light grey medium grained bio-hbl granodiorite) with a large mafic enclave @ 73.4-73.6m and different alteration near the contact below (from faulting or a contact alteration?). Alteration: 70.1-73.15m has propylitic alteration typical of above interval, 73.15-75.36m appears to be some secondary biotite as well as stockwork propylitic veins (chlorite retrograde?). 75.36-78m feldspars completely altered to clays and qtz +/- Fe-Carb (phyllic? contact effect?) Mineralization: Chalcopyrite content has a relative increase in this interval, entirely within veins - could be associated with the appearance of secondary biotite? higher T/K-alt'n? 1. chl+/-qtz, pyr, epi, po. Stringer to ~1cm, locally stockwork. Haloes w/ alb+/-cal (frep). 11/m, 10-40tca. 2. qtz-pyr-po+/-cpy stringers, irregular to planar, 15-40tca, 10/m 3. qtz-cpy-po w/ bio(->chl) selvage. open spaced planar, ~2cm, 65tca, 1/m, e.g. @70.95m 4. Fe-Carb-cal. stringer, ~15-30tca, 4/m. Late calcite fill in the veins above a part of this event? Sulfides: Overall, interval contains 0.5% py, 0.2%cpy, 0.01%mo, 0.3%po	73.4	73.6	mafic enclave, chl and biotite rich with titantite + phenocrysts(?) of plag feldspar	Phyllic 1	m	propylitic	m	0.5	0.2	0.3	0			
RVD17-14	L. Bickerton					73.15	75.36	appears to be some secondary biotite as well as stockwork propylitic veins (chlorite retrograde?).											
RVD17-14	L. Bickerton					75.36	78	feldspars completely altered to clays and qtz +/- Fe-Carb (phyllic? contact effect?)											
RVD17-14	L. Bickerton	78	89.44	QFP	Lithology: Light grey, crowded quartz-feldspar porphyry. Phenocrysts are dominantly feldspar laths with lesser quartz and sulfides disseminated throughout interval (pyr+/-non-magnetic po?). These make up approx. 35-40% of the unit, where groundmass is composed of vfg to aphyric light grey intermediate material. Phenocrysts range in size from 1-4mm and locally, feldpars reach 1-2cm (KSP?). Most feldspar has been altered to clays. Alteration: Most fsp phenocrysts have turned to finge grained sericite and clays,and the intermediate groundmass doesn't appear to take on alteration (SiO2 rich?) likely a phyllic assemblage with disseminated pyrite through the interval. Mineralization: Increased amount of veining in this interval likely associated with the alteration assemblage, as propylitic veins disappear. Pyrite+/-lesser cpy is disseminated throughout the porphyry. 1. qtz-cpy-po+/-mo. wormy to planar, 0.2-1cm, 25tca, 8/m, local SiO2 halo, sulfides clotty within vein. 2. qtz-ser+/-pyr. stringer to planar 0.2cm, 30-40tca, 12/m 3. CO3, vuggy, re-exposing other veins, 0.2-1cm, planar, 60-70tca, 2/m Sulfides: Overall, interval contains 0.8% py, 0.3%cpy, 0.05%mo, 0.2%po				Phyllic 1	w			0.8	0.3	0.2	0.1			

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RVD17-14	L. Bickerton	89.44	104.6	GRD	Lithology: light to dark grey, medium-grained, equigranular granodiorite with stronger alteration than the GRD in above intervals. Although rock is heavily altered, it still is clear to the unit is predominantly feldspar (+some zoned megacrysts) and associated qtz, where presrved primary mafics are difficult to find as most have been replaced by chlorite, clays/sericite, sulfides and lesser leucoxene. Alteration: As noted above, this interval of GRD shows variable alteration from a moderate propylitic that appears to overprint a potassice vein event. These are then overprinted by a strong phyllic assemblage (associated with QFP?). Mineralization: Disseminated to patchy py+/-cpy occurs in relation to phyllic alteration(?) and veins: 1. biotite +/- py, cpy. stringer to branching, 5/m, 50-60tca. 2. qtz +/- cpy, mo, po+/-cal w/ SiO2 flood halo. open spaced planar, ~1-3cm, 65tca, 0.5/m 3. qtz-ser+/-pyr. stringer to planar 0.2cm, 30-40tca, 12/m 4. ser+/-Fe-Carb. Stringer, ~25-30tca, 2/m. Sulfides: Overall, interval contains 0.5% py, 0.2%cpy, 0.02%mo, 0.05%po				Phyllic	1	s	propylitic	m	0.5	0.2	0.1	0		
RVD17-14	L. Bickerton	104.6	105	QFP	Lithology: Light grey quartz-feldspar porphyry finger. Phenocrysts are dominantly rounded quartz and euhedral to subheadral feldspar laths with lesser sulfides (py). These make up approx. 10-15% of the unit, although primary textures in the thin dyke are obscured by a chill margin on both contacts. Groundmass is composed of vfg to aphyric light grey intermediate material. Phenocrysts range in size from 1-4mm. Most feldspar altered to clays. Alteration: Most fsp phenocrysts have turned to finge grained sericite and clays,and the intermediate groundmass doesn't appear to take on alteration (SiO2 rich?) likely a phyllic assemblage similar to the affected granite adjacent to dyke. Mineralization: The porphyry itself is not well mineralized apart from some disseminated pyr but adjacent to the dyke sees an increase in qtz-mo-cpy+/-po veining. Sulfides: 0.1% py				Phyllic	1	m			0.1					
RVD17-14	L. Bickerton	105	118	GRD	Lithology: similar to GRD found above QFP dyke; light to dark grey, fine- to medium-grained, equigranular biotite-hornblende granodiorite. In comparison to the GRD above, slightly less phyllic alteration, locally primary biotite is visible and propylitic appears more pervasive than phyllic channels. Rock is weakly to non-magnetic apart from po mineralization Alteration: weak to moderate phyllic alteration overprints a predominant propylitic alteration with albite+/- calcite replacing fsp and chl replaces mafics (bio and hbl), with lesser pyr, po. Most feldspar is replaced by clays and fine grained sericite, particularily where phyllic alteration channels occur (~20cm - 1m intervals throughout, associated with veins and microfractures). Mineralization: Disseminated py and po, related to propylitic alteration (?). 1. qtz +/- cpy, mo, po+/-cal open spaced planar, ~1-3cm, 45-65tca, 1/m 2. qtz-ser+/-pyr. stringer to planar 0.2cm, 20-40tca, 12/m 3. cal-Carb(Fe)-ser+/-py, mo. Stringer to 1cm and vuggy, ~15-30tca, 5/m. Sulfides: Overall, interval contains 0.3% py, 0.03%cpy, 0.02%mo, 0.3%po				Phyllic	1	m	propylitic	m	0.3	0	0.3	0		
RVD17-14	L. Bickerton	118	142.5	GRD	Lithology: similar to above interval; light to dark grey, fine- to medium-grained, equigranular biotite-hornblende granodiorite. In comparison to the GRD above, strongly altered (SCC phyllic), potentially overprinting a higher temperature assemblage. Vein density increases and vein character changes to a dominant cpy-bearing assemblage and, locally @129-132m, arsenopyrite, bismuthinite, +/-stibnite(?), and liberated gold. At 129m, veins of pink/whiteCO3-qtz-py-aspy(+/-stibnite, bismuthintie, VG) appear 3 times over the next 2 m. Below (@131-136m) is an interval of increased vein density containing mineralization of cpy-py-aspy-stib?-bism?+/-sph with haloes containing xtals replaced by brown sericite (from secondary biotite). Alteration: Throughout this interval, strong phyllic SCC alteration has replaced mostly all feldspar with fine-grained sericite and clays. Where visible, mafics appear to have been replaced by either secondary biotite or by sulfides (po>pyr). Phyllic alteration appears to overprint a moderate potassic assemblage. Mineralization: Disseminated and patchy py+cpy (w/ lesser po), related to potassic alteration (?). 1. biotite +/- py, cpy. 2-5mm, branching, 2/m, 35tca. 2. qtz-cpy+/-mo, po. planar, ~0.5-1cm, 70tca, 1/m 3a. cpy-pyr-sph-stib(?Bismuthite?)+/-VG, CaCO3, qtz 3b. cal-pyr-aspy-stib(+Bismuthite?)+/-VG. planar, open-space filling, 0.2-3cm, 60tca, 2/m (e.g., 129-132m) 4. ser-chl+/-Fe-Carb. Stringer, ~25-30tca, 5/m. Sulfides: Overall, interval contains 1.5% py, 1%cpy, 0.05%mo, 0.2%po, 0.5% aspy, + Bi, Sb, Au !	129	132	At 129m, veins of CaCO3-pink carb-py-aspy(+/-qtz, anh stibnite, bismuthintie, VG). This veinset appears 4-5 times over the next 5-6 m	Phyllic	1	s	Potassic	m	1.5	1	0.2	0.1	asp	0.5
RVD17-14	L. Bickerton					131	136	interval of increased vein density containing mineralization of cpy-py-aspy-stib?-bism?+/-sph											
RVD17-14	L. Bickerton					131.45	131.55	VG in vein assemblage similar to #3b											
RVD17-14	L. Bickerton					133.9	134	VG in vein assemblage similar to #3a											
RVD17-14	L. Bickerton	142.5	144.6	GRD	Lithology: same lithology as above, but interval is extensively brecciated tectonically. Anastamosing matrix of vfg clay and fault gouge with syn-kinetic(?) precipitated cement of calcite(locally vuggy). Fragments of very altered GRD +/- mineralized vein fragments (qtz-pyr-cpy+/-mo,aspy?). Alteration: Fragments of host rock appear to be strongly altered phyllically and the fault breccia itself has undergone carbonate fluid flooding. Mineralization: Most mineralization occurs within fragments of the breccia. Where qtz-cpy-pyr+/-mo veins have been broken up and entrained along the fault zone. Sulfides: 0.2% py, 0.03%cpy, 0.02%mo				Carbonatem			Phyllic	1	s	0.2	0		0		

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RVD17-14	L. Bickerton	144.6	149.7	GRD	Lithology: light to dark grey, fine- to medium-grained, equigranular biotite-hornblende granodiorite.Primary mineralogy and textures difficult to determine due to strong phyllic (sericite-chlorite-clay, SCC) alteration. Alteration: moderate to strong SCC alteration overprints the interval and has transformed most fsp to clays or light grey-green sericite. The few mafic sites that are visible appear to have gone to chlorite, sericite, or sulfides (pyr>po, cpy). Late carbonate alteration is also present associated with veins throughout. Mineralization: Disseminated py related to phyllic alteration is the dominant mineralization present apart from stringer veins associated whith the larger channels for hydrothermal fluids above and below this interval. 1. qtz-pyr-cpy +/- mo. planar, ~0.1-0.5cm, 35tca, 2/m 2. ser-chl +/- pyr, qtz. stringer to planar 0.2cm, 20-40tca, 20/m 3. cal-Carb(Fe)-ser+/-py, mo. Stringer to 1cm and locally vuggy, ~15-30tca, 1/m. Sulfides: 0.3% py, 0.02%cpy, 0.01%mo				Carbonatew		Phyllic 1	s	0.3	0		0			
RVD17-14	L. Bickerton	149.7	152.9	GRD	Lithology: same lithology as above, but this interval contains a near-core-axis-parallel brecciating vein (3-4cm width) making the interval appear like a hydrothermal breccia. The primary cement to brecciating vein1 is dark grey qtz, but another brecciating veinset of primarily carbonate cement occurs at a parallel angle, the zone is likely a brittle fault zone that has been active syn- and post-min. Alteration: Host rock appears to be altered in a similar fashion to the above unit, strong phyllic - although perhaps weakening in strength due to some primary mafic sites (biotite) being preserved despite most having been replaced by chl, sulfides, and green ser. Mineralization: Most mineralization occurs within veining (including vein fragments within brecciating vein). 1. qtz-cpy-mo-py. brecciating, ~1-3cm, 10tca, 3/m 2. ser-chl +/- pyr, qtz. stringer to planar 0.2-1cm, 35tca, 5/m 3. cal-carb(Fe)+/-py,mo,ser. brecciating to planar, 1-3cm, ~10-30tca, 1/m. Sulfides: 0.6% py, 0.1%cpy, 0.05%mo				Carbonatew		Phyllic 1	m	0.6	0.1		0.1			
RVD17-14	L. Bickerton	152.9	193.2	GRD	Lithology: dark grey, medium-grained, equigranular biotite-hornblende granodiorite with local mafic enclaves and euhedral Kspar megacrysts (1-3cm). Lithology remains consistent through this interval apart from a small finger of QFP @ ~154m, with somewhat variable alteration (moderate potassic with ser-chl phyllic overprint). Alteration: Veining and local patches indicate a moderate potassic alteration through parts of this interval and an overall overprinting by patchy ser-chl-clay(SCC) phyllic alteration. Potassic is recognized through biotite-rich veinlets (e.g., 158-163m? could be stockwork chl...), mafic site replacement, and clots (e.g., 174-174.5m). Ksp also occurs, both as clotty sections (e.g., 177-178.31) and as haloes to mag veins (e.g., 174.86-175). The phyllic patches that overprint this alteration are represented by sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites (e.g., 152.89-155m, 164.7-166m, 167-168m, 171.2-172m, 180.34-181m, 189-190.4m). Mineralization: Disseminated cpy < po+pyr, related to potassic and phyllic, respectively, occur throughout the interval but most mineralization is found in veins: 1.biotite(?) veinlets. 0.1-3cm 4/m. 1.magnetite +/-bio w/ Ksp halo. planar, 1-2cm, 60tca, 0.1/m 2.qtz-cpy-pyr-po+/-mo. Irregular to planar, 0.1-1cm, 15-45tca, 4/m 3?.CaCO3-pyr-stib(?)/bismuthite(?)+/-aspy, qtz. planar, 0.2-3cm, 50-70tca, 0.5/m (e.g. @ 172.1m) 4.chl +/-po stringers. irregular to stockwork appearace. 10-15/m. 4.qtz-ser-chl-pyr. stringers, 1-2mm, 20-30tca, 10/m 5.dolomite +/- qtz, carb, mo(?) Sulfides: 0.8% py, 0.5%cpy, 0.5%po, 0.04%mo, 0.05%aspy, +tr. Bi, Sb	152.89	155	phyllic patch: sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites	Phyllic 1	m	Potassic	m	0.8	0.5	0.5	0.1	asp	0.02
RVD17-14	L. Bickerton					153.55	153.85	small finger of quartz-feldspar porphyry (QFP), similar to that described earlier in the hole.											
RVD17-14	L. Bickerton					158	163	stockwork chl veins											
RVD17-14	L. Bickerton					164.7	166	phyllic patch: sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites											
RVD17-14	L. Bickerton					167	168	phyllic patch: sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites											
RVD17-14	L. Bickerton					167.24	167.3	moly rich veins (qtz-carb)											
RVD17-14	L. Bickerton					169	169.2	cpy vein											

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RVD17-14	L. Bickerton					171.2	172	phyllic patch: sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites											
RVD17-14	L. Bickerton					172.1	172.2	mineralized vein of CaCO3-pyr-stib(?)/bism(?)+/-aspy											
RVD17-14	L. Bickerton					174.86	175	magnetite vein with Ksp halo											
RVD17-14	L. Bickerton					177	178.31	clotty Ksp alteration											
RVD17-14	L. Bickerton					180.34	181	phyllic patch: sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites											
RVD17-14	L. Bickerton					187.6	187.7	cpy clotty vein											
RVD17-14	L. Bickerton					189	190.4	phyllic patch: sericite/clay replacement of feldspars and chlorite-pyrite replacement of mafic sites											
RVD17-14	L. Bickerton	193.2	207.8	GRD	Lithology: light grey, medium-grained, equigranular (to local qtz-glomerophyric) biotite granodiorite with local mafic enclaves(3-5cm). Primary mineralogy difficult to determine due to extensive alteration through interval. Possible finger of QFP (or extensively veined aplite?) @196.25-196.72m. Alteration: Throughout the unit is a pervasively strong sericite-chlorite-clay (phyllic SCC?) alteration assemblage. Feldspars and mafic sites have been replaced by sericite-chlorite-clay of a variety of colours (possibly overprinting a patchy potassic assemblage? brown clay locally, dark green ser elsewhere). Mineralization: Disseminated and mafic site-replacement py is present but mineralization is dominantly associated with veining: 1.qtz-pyr-cpy+/-chl(after bio?), aspy. planar to brecciating, 0.1-2cm, 10-30tca, 4/m [Kpot?] 2. qtz-anh(?pinkish Fe-carb?)-cpy-pyr. planar, open-space fill, 0.5-3cm, 40-60tca, 3/m [pot?]. Looks similar to Au-bearing vein set described in intervals above (e.g., at ~205m) 3. pyr-ser-chl+/-qtz, cal. stringers to 0.1mm, 20tca, often re-exposes previous veinset, 8/m [phyllic] 4. carb+/-ser stringers. planar, 20-30tca, 3/m [carbonate] Sulfides: 0.5% py, 0.3%cpy, 0.01%mo, 0.1%aspy	196.25	196.72	either a vfg heavily veined aplite dyke or heavily altered and veined QFP dyke with diffuse margins.	Phyllic 1	s	Potassic	w	0.5	0.3		0	asp	0.1
RVD17-14	L. Bickerton	207.8	214.7	TUF	Lithology: light beige-grey, polymictic, lithic-rich tuff-breccia (diatreme/pyroclastic dyke). Contact with above unit appears as discrete, 5-10cm wide, fault gouge; likely due to the explosive nature of the diatreme intrusive. Fragments within the diatreme make up approx 30-35% of the unit and are rounded to sub-angular, ranging in size from 2mm to 4-5cm. Compositionally, fragments include m.g. granodiorite (40% of fragments), f.g. qtz-fsp porphyry (QFP, ~25%), vfg to fg crystal-tuff brecca/diatreme material (lapilli? ~30%), and rounded clots/fragments of massive sulfide (pyr>>cpy, 5%). The groundmass/matrix of the breccia is a weakly ser altered, vfg intermediate pyroclastic material and sparse phenocrysts of euhedral fsp (now replaced by ser/clay, 2-3mm, 20% of grndmss). Alteration: Weak phyllic alteration (QSP) occurs throughout the interval; feldspars have been replaced by sericite-clay, pyrite appears to be disseminated, and the groundmass remains relatively un altered apart from weak green-grey ser. Massive sulfide occurs through this interval associted with veins and shear fault fill (w/clay, qtz, pyr, graph?). Mineralization: As noted above, massive sulfide mineralization is associated with low-angle veins, but the interval also contains disseminated to patchy cpy and pyr, as well as breccia fragments of pyr+/-cpy: 1. pyr-cpy+/-qtz, aspy. planar to brecciating (sulfide mostly massive, locally forming clots with good crystal habit), 0.5-5cm, 10-25tca, 5/m 3. ser-qtz+/-pyr. stringers, 40tca, 3/m Sulfides: 8% py, 0.5%cpy, 0.01%mo, 0.2%aspy				Phyllic 1	w			8	0.5		0	asp	0.2

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-14	L. Bickerton	214.7	290.3	TUF	Lithology: pale to green-grey, lithic-bearing crystal tuff-breccia (diatreme/pyroclastic dyke). Intermediate tuff matrix with ~10% euhedral, 1-3mm feldspar phenocrysts and ~20--25% fragments (similar to those above +/- YTT wallrock) make up a majority of this interval. There is, however, an intermingling with parts of the diatreme that have an increased amount of lithics/fragments. These intervals locally appear to be interfingered in a cryptic manner (e.g., 237.5-240m transition), but also occur as discrete 15-20 cm pieces elsewhere (cannibalized diatreme?, e.g., 241.6-241.8m). There is also a later appearance of nearly aphyric tuff diatreme/dykes within this interval that are <60cm (e.g., 249.34-249.94m); these likely intrude the tuff breccia before it is completely solid/cooled as the contacts are undulose and diffuse. Alteration: Weak phyllic alteration (ser-chl-qtz-py) occurs throughout the interval; feldspars have been replaced by sericite-clay, pyrite appears to be disseminated, and the groundmass reamins relatively un altered apart from weak green-grey ser. Faults occur at various intervals that are mostly supported by clay-rich gouge. Mineralization: Overall, interval is weakly mineralized, with pyr>>cpy occuring as disseminations and patches (py clots disseminated in certain intervals, e.g., 269.3-272.9m) and sulfides as part of entrained fragments. Similar to the diatreme elsewhere, this interval also contains disseminated blue-purple oxide (Mn? pyrolusite?). Veins are sparsely populated in this interval, but are associated with the weak alteration: 1. qtz-ser+/-pyr. stringers, 15-40tca, 0.5/m Sulfides: 0.1% py, 0.01%cpy.	220	229	igneous fabric at approx 60 tca, fragments and phenocrysts in matrix aligned parallel	Phyllic 1	w			0.1	0				
RVD17-14	L. Bickerton					237.5	240	gradual transition from lithic fragment-bearing crystal tuff breccia to a lithic-fragment rich tuff breccia											
RVD17-14	L. Bickerton					241.6	241.8	Fragment(?) of a lithic-rich tuff breccia within the crystal tuff breccia.											
RVD17-14	L. Bickerton					249.34	249.94	vfg to fg aphanitic(?) tuff breccia with very few fragments. Contact with surrounding diatreme is diffuse and undulose											
RVD17-14	L. Bickerton					253.35	253.55	patch of disseminated pyrite clots (2-3mm each)											
RVD17-14	L. Bickerton					269.3	269.36	clots of coarse cubic pyrite (1-2cm) + rounded sulfide fragment (2-3cm)											
RVD17-14	L. Bickerton					269.3	272.9	increase in disseminated pyr clots (interval ~1% py)											
RVD17-14	L. Bickerton	290.3	293.4	tuf	Lithology: Interval is a ~3m return to polymictic, lithic tuff-breccia (diatreme); likely a mega-clast/fragment within the finer grained breccia body that is composed of crystal tuff breccia intermingled with lithic-rich crystal tuff. Fragments are rounded to sub-angular, ranging in size from 5mm to 5-8cm. Compositionally, fragments include m.g. sub-rounded granodiorite (65% of fragments), rounded crowded qtz-fsp porphyry (QFP, ~25%), rounded metamorphic gneiss/YTT host rock (~10%), and accessory aphanitic intermediate (diatreme?) lapilli +/- rounded sulfide fragments. The groundmass/matrix of the breccia is a weakly ser altered, vfg intermediate pyroclastic. Alteration: Weak phyllic alteration (QSP) occurs throughout the interval; feldspars among matrix have been replaced by sericite-clay, and pyrite clots are disseminated through the interval. Groundmass has weak pervasive green-grey ser and fragments also appear to have rim of ser-clay Mineralization: Sulfide mineralization is associated with the fragments within the breccia and less so disseminated among the breccia matrix (pyr>>cpy). : Sulfides: 0.5% py, 0.05%cpy				Phyllic 1	w			0.5	0.1				
RVD17-14	L. Bickerton	293.4	317	tuf	Lithology: pale to green-grey, lithic-bearing crystal tuff-breccia (diatreme/pyroclastic dyke). Intermediate tuff matrix with ~20-25% euhedral, 1-3mm feldspar and rounded 1-2mm qtz phenocrysts. Fragments make up ~10-20% this interval and are of similar composition to the crytal tuff breccia described above. Alteration: Weak phyllic alteration (ser-chl-qtz-py) occurs throughout the interval. Mineralization: Overall, interval is weakly mineralized, with pyr>>cpy occuring as disseminations (py clots disseminated) and sulfides within entrained fragments. Interval contains disseminated blue-purple oxide (Mn? pyrolusite?). Veins are sparsely populated in this interval, but are associated with the weak alteration: 1. qtz-ser+/-pyr. stringers, 20tca, 1/m Sulfides: 0.1% py, 0.01%cpy.				Phyllic 1	w			0.1	0				
RVD17-14	L. Bickerton	317	341.4	TUF	Lithology: green-grey, lithic-rich crystal tuff-breccia (diatreme/pyroclastic dyke). Intermediate tuff matrix with ~30-45% rounded to sub-angular, 1-6cm fragments. Fragments are dominantly rounded qtz-feldspar porphyry fragments (~70% of fragments), as well as fg to mg granodiorite (~10%), and sub angular fragments of crystal-tuff diatreme (~20%). Phenocrysts among the matrix in the diatreme include feldspar which have been dominantly altered to clay +/-ser. Locally in this interval (e.g., 329.7-333m, 333.6-333.9m, 334.4-334.6m) tuff breccia has hydrothermal component to matrix/cement, where sulfides have precipitated between fragments and rim larger fragments (cpy>pyr). Alteration: Weak phyllic alteration (ser-chl-qtz-py) occurs throughout the interval. Mineralization: Overall, interval is mineralized by patchy sulfide content, either as clotty pyrite associated to alteration, or sulfide cement among the tuff breccia in certain intervals (cpy>pyr). Interval contains disseminated blue-purple oxide (Mn? pyrolusite?), but the sulfide cement patches also have a dark blue sulfide associated with mineralization (trace moly?). Sulfides: 0.5% py, 0.22%cpy, 0.02%Mo.	317	320	ser-chl alteration expressed along irrgeular/undulose 1-3cm pathways with diffuse margins that are approx 10-15tca. Remainder of rock remains weakly mineralized.	Phyllic 1	w			0.5	0.2		0		

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RVD17-14	L. Bickerton					329.7	333	hydrothermal cement present (cpy>pyr) among patchy breccia.											
RVD17-14	L. Bickerton					333.6	333.9	hydrothermal cement present (cpy>pyr) among patchy breccia.											
RVD17-14	L. Bickerton					334.4	334.6	hydrothermal cement present (cpy>pyr) among patchy breccia.											
RVD17-14	L. Bickerton					334.5	341.38	increase in size of fragments and composition is dominantly sparsely crowded intermediate qtz-eye porphyry.											
RVD17-15	L. Bickerton	0	26.43	OVB															
RVD17-15	L. Bickerton	26.43	28.6	GRD	Lithology: light grey, medium-grained, equigranular biotite+/-hornblende granodiorite, heavily weathered and oxidized in this interval. Rock is approx. 65% fsp, 20% qtz, and 15% mafics (biotite>hbl). Interval is non-magnetic, but this could be a resulkt of oxidation. Alteration: moderate propylitic alteration with albite+/-epi replacing the feldspar crystals and chlorite replacing most mafics. Difficult to determine alteration through the heavy weathering and oxidation. Mineralization: Limonite common along fractures that were likely qsp veins, pyr also occurs in association with propylitic veins and alteration. 1. qtz-chl+/-pyr. ~1-2cm planar. 2/m, 40tca. 2. ser-chl-pyr. stringers, re-exose previous veinset, 40-50tca, 5/m Sulfides: 0.1% py, 0.05% po				phyllic	1	w	propylitic	m	0.1		0.1				
RVD17-15	L. Bickerton	28.6	32.2	BRX	Lithology: broken zone with angulatr 2-10cm fragments composed dominantly of medium-grained, equigranular biotite+/-hornblende granodiorite (as above and below). Zone also contains rounded fragments [among flt gouge] of: phyllically altered lithic-rich crystal tuff-breccia (diatreme, present at depth but not sourced locally in this case), biotite-diorite/monzonite, and heavily silica altered porphyry/bulk qtz?. Alteration: moderate propylitic alteration in the GRD clasts with albite+/-epi replacing the feldspar crystals and chlorite replacing most mafics. Heavy weathering and oxidation. Mineralization: Limonite common, pyr also occurs in clasts along veins of phyllic assemblages and disseminated in relation to propylitic alteration. 1. qtz-chl+/-pyr. ~1-2cm planar. 2/m, 40tca. 2. ser-chl-pyr. stringers, re-exose previous veinset, 40-50tca, 5/m Sulfides: 0.1% py, 0.05% po				phyllic	1	w	propylitic	m	0.1		0.1				
RVD17-15	L. Bickerton	32.2	81.24	GRD	Lithology: light to dark grey, medium-grained, equigranular to fsp-megacrystic biotite+/-hornblende granodiorite. Rock is approx. 50% plag, 20% qtz, 20% Ksp (including euhedral zoned megacrysts, 2-4cm), and ~10% mafics (biotite>hornblende). Locally, this unit has mafic enclaves (rounded, < or =10cm, biotite rich). Rock is weakly to non-magnetic (apart from where moderate propylitic alteration occurs, i.e., secondary mag+/-pyrrhotite). At 66-67.05m, grain size and biotite content in GRD reduces. Alteration: moderate propylitic alteration with albite and epi +/- cal pervasively replacing fsp throughout the rock, particularily in haloes of chl veins, described below, and chl, po+/-mag replacing mafics (bio and hbl). A sub-interval at 42.7-53.7m has strong propylitic alteration with pervasive chl+/-epi stockwork veins and replacement. At 68.28-68.68, 69.17-69.97 there is moderate phyllic (qtz-sericite-pyrite+/-clay) alteration associated with veins/fractures. 79.16-81.24m contact metamorphism of granodiorite(?). Two intervals (53.5-55.8m, 57.93-58.67m) have increased iron staining, likely related to faults, and contain disseminated pyr +/- asp Mineralization: Disseminated/mRep sulfides (po>py) occur in association with propylitic alteration. Remaining mineralization is related to veining. 1. chl, qtz+/-epi, po, cal, pyr. stringer to ~2-3cm branching veinset, locally stockwork. Haloes w/ alb-epi replacing fsps. 10/m, 10-30tca. 2. qtz-pyr +/- cpy, aspy(?), bismuthite(?), planar with diffuse margins. 45tca, 0.5-1cm, ~10/m @ 69.17-69.67 3. qtz-ser+/-pyr. Planar, ~0.1-1cm, 40tca, 2/m. 3. Dolomite(?)/pink carb. irregular, ~30tca, 2/m @ 69.17-69.67. Sulfides: Overall, interval contains 0.2% py, 0.02%cpy, 0.5%po, 0.01%aspy, tr. Bi?	42.7	53.7	strong propylitic alteration with pervasive chl+/-epi stockwork veins and replacement	phyllic	1	w	propylitic	m	0.2	0	0.5		asp	0.01
RVD17-15	L. Bickerton					53.5	55.8	increased iron staining, likely related to faults, and contain disseminated pyr +/- asp											
RVD17-15	L. Bickerton					57.93	58.67	increased iron staining, likely related to faults, and contain disseminated pyr +/- asp											
RVD17-15	L. Bickerton					66	67.05	grain size and biotite content in GRD reduces											

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RVD17-15	L. Bickerton					68.28	68.68	moderate phyllic (qtz-sericite-pyrite+/-clay) alteration associated with veins/fractures											
RVD17-15	L. Bickerton					69.17	69.97	moderate phyllic (qtz-sericite-pyrite+/-clay). Veins of qtz-pyr+/-cpy, aspy(?), bismuthite(?) and later irregular dolomite(?)/pink carb.											
RVD17-15	L. Bickerton	81.24	93.08	QFP	Lithology: Light grey, moderately crowded quartz-feldspar porphyry. Phenocrysts are dominantly feldspar laths with lesser quartz and sulfides disseminated throughout interval (pyr+/-non-magnetic po?). These make up approx. 35-40% of the unit, where groundmass is composed of vfg to aphyric light grey intermediate material. Phenocrysts range in size from 1-4mm and locally, feldpars reach 1-2cm (Ksp?). QFP near contact has slightly increased SiO2 in groundmass (chill?) and contacts are ~45tca. Locally (e.g., 83.9m) the porphyry appears hydrtohermally brecciated by dark grey qtz but clasts are rounded and irregular and cement has diffuse boundaries with surrounding QFP - syn-crystallization brecciation? Alteration: Most fsp phenocrysts have turned to fine-grained sericite and clays,and the intermediate groundmass has patches of increased SiO2 content (silica alteration? also has po+/-pyr, cpy disseminated in these patches, e.g., 91.63-93.08m). Mineralization: Most mineralization occurs as disseminations within the porphyry (po>cpy>pyr>mo?). and some minor veining: 1. qtz-cpy-po+/-mo. planar to stringer. 0.2-1cm, 25tca, 5/m, local SiO2 halo, sulfides clotty in vein, mo is vfg. 2. qtz-ser+/-pyr. stringer to planar 0.2cm, 30-40tca, 3/m 3. CaCO3, vuggy, re-exposing other veins, 0.2-1cm, planar, 60-70tca, 2/m Sulfides: 0.5% py, 0.2%cpy, 0.02%mo, 0.5%po	91.63	93.08	silica alteration? also has po+/-mo, pyr, cpy disseminated	phyllic 1	w	silica	m	0.5	0.2	0.5	0		
RVD17-15	L. Bickerton	93.08	98.98	GRD	Lithology: light grey, medium-grained, equigranular to Kfsp-megacrystic biotite+/-hornblende granodiorite. Similar to unit found above QFP, with increased alteration and sulfide content (associated with proximity to the QFP?). Primary mineralogy is difficult to determine. Alteration: moderate to strong phyllic alteration appears to overprint a weak to moderate silica/potassic alteration assemblage. Most of the interval is a comination of sericite-chlorite-clay (SCC), apart from patches of qtz-Ksp(?) flooded zones (e.g., 93.8-94.9m) that are associated with inner haloes to qtz-sulfide veining (the outer haloes of which have remnant secondary biotite and po+/-cpy, pyr). Mineralization: Disseminated/mRep sulfides (po>pyr>cpy; dark brown sulfide, altered py? non-magnetic po? marcasite?). Remaining mineralization is related to veining: 1. qtz-pyr+/-cpy, mo w/ qtz-ksp->bio halo. planar, 45tca, 0.1-2cm, ~8/m 3. qtz-ser+/-pyr. Planar, ~0.1-1cm, 40tca, 2/m. 3. CaCO3. irregular, thin <3mm, re-exposing of previous veins to ~20tca, 4/m. Sulfides: 2% py, 0.15%cpy, 0.5%po, 0.01%mo 0.01%aspy	93.8	94.9	potassic zone: veins of qtz-cpy-mo+/-pyr with halo os qtz-ksp(?) and outer halo of secondary biotite.	phyllic 1	m	potassic	m	2	0.2	0.5	0	asp	0.01
RVD17-15	L. Bickerton	98.98	136.4	GRD	Lithology: light to dark grey, medium-grained, equigranular to fsp-megacrystic biotite+/-hornblende granodiorite. Rock is variably altered and faulted in this interval, but patches of primary textures show approx. 65% fsp (including euhedral zoned 'megacrysts', 1-3cm), 25% qtz, , and ~10% mafics (biotite>hornblende, now altered to chl, ser, biotite). Locally, there is mafic enclaves (rounded, ~12cm, biotite rich. e.g., 132.6-132.7m). Rock is generally non-magnetic (apart from patchy secondary pyrrhotite with bio altn). Alteration: Interval has abundant sericite-chlorite-clay phyllic alteration (SCC) which occurs in a somewhat patchy fashion related to veins. SCC is exressed locally as white clay-ser dominantly replacing feldspars throughout (e.g., 109-114.5m) or as as green-blue to white ser+/-chl&clay replacement of fsp and mafics, with qtz being preseved (e.g., 125.8-131m). This assemblage overprints a weak to moderate potassic assemblage that is visible away from/in between major phyllic veins (early biotite veinlets and mReps, e.g., 103-104.6m, 135.2-136m), and is overprinted by a later weak carbonate assemblage that has been introduced with later faulting (CO3 more concentrated near gouge planes and along late fractures through the rock). Mineralization: Disseminated/mRep sulfides (po>cpy=py) occur in association with earlier potassic alteration and less altered pyr occurs as disseminations related to phyllic assemblage. Remaining mineralization in veins: 1. biotite stringers+/-po-pyr-cpy, sometimes in halo; <3-5mm planar, 30tca, 2/m 1. qtz-pyr-cpy +/- cal, mo, aspy(?) w/ ksphalo?, planar. 0.2-4cm, 30tca, ~4/m (e.g., 111.84m) 2. qtz-carb(ank? sometimes pinkish) +/- pyr, sph(?) w/ halo of dark green ser (overprint?). Planar to bx, ~1-4cm, 10-35tca, 5/m. Character is variable, sometimes brecciating, locally UST textured with dark qtz fill (@116.3m). Similar looking veinset to those carrying VG in previous hole. 3. chl-ser+/-pyr, qtz w/ clay altn of felsic sites in halo. planar, 2-3mm, ~25tca, 5/m. 4. cal stringers. irregular to planar, 40tca, 3/m. Sulfides: 0.8% py, 0.2%cpy, 0.5%po, 0.01% mo, 0.01%aspy.	103	104.6	early secondary biotite in veinlets and mafic site replacement	Phyllic 1	s	potassic	m	0.8	0.2	0.5	0	asp	0.01
RVD17-15	L. Bickerton					109	114.5	white clay-ser dominantly replacing feldspars throughout											
RVD17-15	L. Bickerton					111.84	111.85	qtz-pyr-cpy +/- cal, mo, aspy(?) w/ ksphalo?, planar. 0.2-4cm, 30tca											
RVD17-15	L. Bickerton					116.3	116.4	UST texture in qtz-carb(ank?dol? pinkish) +/-pyr, sph w/ halo of dark green ser (overprint?). Planar to bx, ~1-4cm, 10-35tca											

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RVD17-15	L. Bickerton					125.8	131	green-blue to white ser+/-chl&clay replacement of fsp and mafics, with qtz being preseved											
RVD17-15	L. Bickerton					132.6	132.7	mafic enclave; rounded, ~12cm, biotite rich											
RVD17-15	L. Bickerton	136.4	138	QFP	Lithology: Light grey, moderately crowded quartz-feldspar porphyry, similar to QFP described above. Phenocrysts are dominantly euhedral to subhedral, randomly oriented feldspar with lesser anhedral quartz and disseminated sulfides (pyr+/-po, marcasite?). These make up approx. 40-50% of the unit, where groundmass is composed of vfg to aphyric light grey intermediate intrusive. Phenocrysts range in size from 1-5mm. Contacts are ~55tca above and 75 below. Alteration: A weak phyllic overprint in this unit has replaced most feldspars wtih fine grained sericite-clay. Mineralization: Although this interval has disseminated sulfides, these are dominantly pyrite (+/- po, sph?) and the ore mineralization is represented by veining: 1. qtz-mo-cpy+/-py. planar, 0.1-2cm, 40tca, 2/m. 1. pyr+/-aspy, cpy, stringer to planar, 0.1-1cm, 70tca, 1/m 2. ser +/- chl, stringers, 60tca, 10/m Sulfides: 1% py, 0.1%cpy, 0.05%mo, 0.05%po, 0.05%asp				phyllic	1	w		1	0.1	0.1	0.1		asp	0.05
RVD17-15	L. Bickerton	138	164.4	GRD	Lithology: light grey, medium-grained, equigranular to Kfsp-megacrystic biotite+/-hornblende granodiorite. Similar to unit found above QFP with increased phyllic alteration, particularily in 4-5m proximity to the qfp intrusion. Xtal content similar to previous description, ~65% fsp (plag>ksp, Ksp megacrysts), 25%qtz, 10% mafics (bio>hbl) and accessory sphene, sulfides. Alteration: Moderate to strong phyllic alteration, replacing most feldspars - especially in proximity to QFP and the phyllic veins - with ser and clay. Where phyllic patches weaken, relatively unaltered GRD is visible (152.3 - 153.4m) or GRD that is moderately to strongly propylitically altered (albite rep of fsp and chl veinlets, e.g., 156.4 - 157.3m). This propylitic interval also appears to be overprinting some potassic veining and alteration (qtz vein with diffuse biotite halo @156.4m, 158.42m). Mineralization: Disseminated/mRep sulfides (po>pyr>cpy; dark brown sulfide, altered py? non-magnetic po? marcasite?). Remaining mineralization is related to veining: 1. qtz-pyr w/ bio halo. Planar with diffuse selvage, ~0.5cm, 25tca, 0.5/m. 2. qtz-pyr-mo+/-cpy. planar, 45tca, 0.1-2cm, ~3/m 3. chl +/- po, pyr. stringer to stockwork, @156.3-157.3 ~25/m. 3. qtz-cal-Fecarb-pyr+/-aspy, stibnite(?bismuthite? boxy/platy soft sulfide with irradescent tarnish). irregular to planar, 0.1-4cm, 30tca, locally 4/m (e.g., 157.4 - 161m). 4. qtz-ser+/-pyr. Planar, ~0.1-1cm, 40tca, 2/m. 5. CaCO3. irregular, thin <3mm, re-exposing of previous veins to ~20tca, 4/m. Sulfides: 1% py, 0.1%cpy, 0.05%po, 0.03%mo 0.05%aspy, tr. Bi, Sb, Au??	152.3	153.4	relatively unaltered GRD	phyllic	1	m	propylitic	m	1	0.1	0.1	0		asp	0.05
RVD17-15	L. Bickerton					156.4	157.3	moderately to strongly propylitically altered GRD											
RVD17-15	L. Bickerton					156.4	156.5	qtz vein with diffuse biotite halo											
RVD17-15	L. Bickerton					158.42	158.43	qtz vein with diffuse biotite halo											
RVD17-15	L. Bickerton					157.4	161	concentration of qtz-cal-Fecarb-pyr+/-aspy, stibnite(?bismuthite? boxy/platy soft sulfide with irradescent tarnish). irregular to planar, 0.1-4cm, 30tca. Similar vein assemblage to host VG in last hole											
RVD17-15	L. Bickerton	164.4	169.3	PPF	Lithology: Interval of pervasively altered (SiO2?), light to dark grey feldspar porphyry. Phenocrysts are dominantly euhedral to subheadral feldspar laths with lesser sulfides (altered py?). Primary textures are barely visible through much of this interval, but where seen, it looks like a sparsely crowded (overall ~10-15% phenocrysts) version of the QFP observed higher up in the hole with less if any qtz eyes. Groundmass is composed of vfg to aphyric light grey intermediate material. Alteration: Fsp phenocrysts, where observed, have turned to fine grained sericite and clays, and the intermediate groundmass appears to have undergone pervasive chl alteration (as well as disseminated pyrite? Part of moderate SCC assemblage?). Mineralization: Interval has disseminated pyrite and minor veining: 1. qtz-chl-pyr. Planar whispy to brecciating, 70tca, 0.1-1cm, 3/m 2. qtz-carb-pyr-cpy+/-mo(?), planar to brecciating, re-exposing previous veins. 0.1-3cm, 40tca, 2/m. Sulfides: 0.8% py, 0.1%cpy, 0.01%mo				phyllic	1	m			0.8	0.1		0			

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
RVD17-15	L. Bickerton	169.3	189.9	GRD	Lithology: light grey, medium-grained, equigranular to Kfsp-megacrystic biotite+/-hornblende granodiorite. Similar to unit found above QFP with slightly increased green sericite content and carbonate related to shear plane veins. Alteration: Moderate to strong phyllic alteration, replacing most feldspars with gree ser +/- white clay, this overprintes what appears to be a weak to moderate potassic assemblage, as away from SCC zones the GRD is flooded by SiO2 in the felsic sites and has biotite alteration of mafic sites. Overall, there is also a weak carbonate overprint affecting some porous sites in the interval. Mineralization: Disseminated/mRep sulfides (pyr>cpy>po + dark brown sulfide, altered py? non-magnetic po? marcasite?). Remaining mineralization is related to veining: 1. qtz-pyr-mo+/-cpy. planar, often truncated, 45tca, 0.1-2cm, ~3/m 2. chl +/- po, pyr. stringer to stockwork, @156.3-157.3 ~25/m. 3. qtz-Fecarb-cpy-pyr+/-aspy. irregular to planar, 0.1-4cm, 30tca, locally 4/m (e.g., 157.4 - 161m). 4. qtz-ser+/-pyr. Planar, ~0.1-1cm, 40tca, 2/m. 5. CaCO3. irregular, thin <3mm, re-exposing of previous veins to ~20tca, 4/m. Sulfides: 1% py, 0.1%cpy, 0.02%po, 0.02%mo 0.01%aspy				Phyllic 1	s	potassic	m	1	0.1	0	0	asp	0.01
RVD17-15	L. Bickerton	189.9	192.6	PPF	Lithology: Interval of pervasively altered, light to dark grey feldspar porphyry. Phenocrysts are dominantly euhedral to anheadral feldspar laths with lesser sulfides (py?). Top contact is ~65tca with a 60cm chill margin of primarily ser alteration of groundmass and phenocrysts, bottom contact is faulted. Textures through the rock are barely visible but for the most part the interval is less crowded than QFP dykes (~15-25% phenocrysts). Groundmass is composed of vfg to aphyric dark grey-green intermediate material. Alteration: Fsp phenocrysts, where observed, have turned to fine-grained sericite, and the intermediate groundmass appears to have undergone minor chl + pyr alteration (weak phyllic assemblage?). Mineralization: Interval has disseminated pyrite and minor veining: 1. qtz-pyr+/-chl, cal. Planar whispy to brecciating, 55tca, 0.1-1cm, 3/m 2. ser-chl-pyr, planar, re-exposing previous veins. 0.1-3cm, 40tca, 5/m. Sulfides: 1% py, 0.01%cpy				Phyllic 1	w	propylitic	w	1	0				
RVD17-15	L. Bickerton	192.6	207.7	GRD	Lithology: light grey, medium-grained, equigranular to Ksp-megacrystic (2-4cm) biotite granodiorite. Rock is dominantly plagioclase (~60%), qtz (25%), Ksp (10%), and mafics (biotite>>hbl, 5%) with accessory sulfides and sphene (altered to leucoxene?). Unit has patchy alteration. Rock is non magnetic (mafic sites mostly replaced...) apart from secondary veining and alteration. Alteration: Moderate to strong phyllic alteration appears through much of the top of this interval (i.e., 192.63-203.9m) as well as patches associated with veins (205.1-205.3m, 205.74-205.9m, 206.15-207.3m), replacing most feldspars with fine-grained ser +/- clay,and the mafic sites with ser-chl+/-sulfides. These assemblages appear to overprint a weak to moderate potassic assemblage, especially towards end of interval; magnetite veins (e.g., 204.12-204.52m) and alteration in combination with Ksp+qtz flooding (e.g., 207.4-207.5), patchy biotite (replaced by chlorite? e.g., 205.44m). Increase in potassic related to porphyry below? Late carbonate overprint locally, associated with fracture fill. Mineralization: Disseminated+/-mRep sulfides (pyr) associated with phyllic alteration where present, in potassic intervals, disseminated sulfide content decreases but contains trace cpy, mo(w/qtz?). Remaining mineralization is related to veining: 1. mag +/-bio?. planar to stockwork, 60tca, 0.1-2cm, 5/m. 2. qtz-pyr+/-cpy, mo. planar, 40tca, 1-5mm, ~4/m 2. cal-carb-pyr +/- cpy, qtz. planar stringer to anastamosing, 35tca, 1-10mm, 5/m. 4. chl-ser+/-pyr. Planar, re-exposing above veinset, ~0.1-0.2cm, 40tca, 10/m. 5. CaCO3. irregular, thin <3mm, ~30tca, 2/m. Sulfides: 0.5% py, 0.03%cpy, 0.02%mo	192.63	203.9	Moderate to strong phyllic alteration	Phyllic 1	m	potassic	m	0.5	0		0		
RVD17-15	L. Bickerton					204.12	204.52	magnetite veins											
RVD17-15	L. Bickerton					205.1	205.3	patch of moderate phyllic overprint associated with veining.											
RVD17-15	L. Bickerton					205.44	205.5	patchy biotite (replaced by chlorite?)											
RVD17-15	L. Bickerton					205.74	205.9	patch of moderate phyllic overprint associated with veining.											
RVD17-15	L. Bickerton					206.15	207.3	patch of moderate phyllic overprint associated with veining.											
RVD17-15	L. Bickerton					207.4	207.5	Ksp alteration + qtz flooding											

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RVD17-15	L. Bickerton	207.7	225.5	QFP	Lithology: Light green-grey to auburn, crowded quartz-feldspar porphyry. Phenos make up approx. 40-55% of the unit, and are dominantly euhedral to rounded feldspar laths (6/10) with anhedral quartz (3.5/10) and lesser biotite with disseminated sulfides (0.5/10) throughout interval (pyr-mo+/-cpy). where groundmass is composed of vfg to aphyric dark grey to Fe-stained intermediate material. Phenocrysts range in size from 0.5-2mm and, locally, there are xenocrysts(?) of Ksp (1-2cm) and xenoliths of GRD (undulose boundaries, potasically altered). Contacts of QFP with GRD are wavy and shallow tca (10-15 degrees). Phenocrysts easier to determine in phyllic patches where ser replaces fsp. Alteration: There is SCC phyllic alteration (ser-chl-clay+/-pyr) overprinting this interval locally, particularily near contacts (e.g., 207.7-211m, 224-225.5m) and in proximity to phyllic veins/fractures (e.g., 215.66-215.86m, 216.25-216.6m, 219.6-220.1m, 222.6-223.35m). Prior to this overprint, the interval appears to have been subjected to moderate to strong potassic alteration with pervasive Ksp and lesser SiO2 flooding, accompanying minor ksp-mag+/-pyr-cpy-mo veins. Mineralization: Disseminations within the porphyry (pyr>mo>cpy) and veining: 1. mo+/-qtz-cpy stringers +/- ksp halo. planar, 1-2mm, 60tca, 3/m. 1. magnetite w/ ksp halo. thin planar, 2-5mm, 50tca, 0.5/m 2. qtz-cal-ser-pyr. stringer to planar 0.5mm, 30tca, 5/m 3. CaCO3, planar to re-exposing other veins, 0.2-1cm, planar, 60tca, 2-3/m Despite potassic alteration there is not abundant Cu mineralization, just diss. and veined moly - Temp too high? Sulfides: 0.5% py, 0.02%cpy, 0.1%mo	207.7	211	SCC phyllic alteration (ser chl-clay+/-pyr) overprint	phyllic 1	w	potassic	s	0.5	0		0.1			
RVD17-15	L. Bickerton					224	225.5	SCC phyllic alteration (ser chl-clay+/-pyr) overprint											
RVD17-15	L. Bickerton					215.66	215.86	ser-chl-clay+/-pyr											
RVD17-15	L. Bickerton					216.25	216.6	ser-chl-clay+/-pyr											
RVD17-15	L. Bickerton					219.6	220.1	ser-chl-clay+/-pyr											
RVD17-15	L. Bickerton					222.6	223.35	ser-chl-clay+/-pyr											
RVD17-15	L. Bickerton	225.5	228.1	GRD	Lithology: Strongly altered, medium- to coarse-grained, equigranular biotite granodiorite, as described above the QFP. Above contact is wavy and shallow angle (~10-15tca) and the bottom contact appears to be sheared at ~30tca. At ~226.2-226.7m is a small dyke of weakly altered qfp material that contains minor xenoliths of GRD. Alteration: Pervasive sericite-chlorite alteration throughout this interval in the GRD, replacing all feldspar with green to buff-white ser-clay and mafics to pale green ser-chlorite. Late CaCO3 veining appears to overprint the assemblage with a very weak carbonate alteration. Mineralization: Disseminated pyrite is present but most mineralization is in relation to veining: 1. qtz +/- pyr, cpy, mo. planar to undulose, 1-5mm, 4/m, 60-70tca. 2. ser-qtz-chl+/-pyr w/ser-clay halo. planar to whispy and re-exposing of older veins, 1-3mm, 3/m, 30tca. 2. carbonate(Fe?)+/-pyr, aspy, stib(?acicular dark grey/silver sulfide?), 1-2cm, 0.5/m, 80tca. similar veinset to those which host VG in last hole, missing clotty pyr/aspy... Sulfides: 0.05% py, 0.03%cpy, 0.02%mo, 0.02%asp	226.24	226.66	short intercept of QFP material, similar to above lithology.	carbonatew		phyllic 1	s	0.1	0		0	asp	0.02	
RVD17-15	L. Bickerton	228.1	230.1	QFP	Lithology: Crowded quartz-feldspar porphyry, similar to the QFP described above. Contact of QFP with GRD above is faulted (sheared, ~30tca), and is undulose with a 1-2" chill margin below (~70-80tca). Phenocrysts similar to unit above with euhedral biotite and minor sulfide xtals crystalized with fsp and qtz. Alteration: .Weak to moderate potassic alteration is overprinted by a weak phyllic assemblage. Most phenocrysts are intact, but groundmass has increased SiO2 flooding (particularily in hydrothermal bx zone, 228.13-228.83m) and ksp occurs locally replacing some phenocrysts. Mineralization: Disseminations within the porphyry (pyr>po?>cpy) and minor veining: 1. qtz-chl-pyr. stringer to planar 0.5mm, 30tca, 5/m Overprinting this unit @ 228.13-228.83m is a hydrothermal breccia that is originally cemented by quartz, pyrite, anhydrite (+/-cpy, aspy?) and subsequently re-brecciated/open-space filled by calcite-FeCarb. Locally this is dominantly a sulfide breccia. Sulfides: 3%py, 0.1%cpy, 0.02%asp	228.13	228.83	Overprinting this unit @ 228.13-228.83m is a hydrothermal breccia that is originally cemented by quartz, pyrite, anhydrite (+/-cpy, aspy?) and subsequently re-brecciated/open-space filled by calcite-FeCarb. Locally this is dominantly a sulfide (pyr) breccia.	Propylitic w		potassic	m	3	0.1			asp	0.02	

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RVD17-15	L. Bickerton	230.1	245.2	GRD	Lithology: variably altered, medium-grained, equigranular biotite granodiorite,similar to interval 192.63-207.7m. Alteration: There is a late SCC phyllic alteration (ser-chl-clay+/-pyr) overprinting this interval locally (e.g., 233.8-235.5m, 242.4-EOH). Prior to this overprint, the interval appears to have been subjected to moderate to strong potassic alteration with pervasive Ksp and lesser SiO2 flooding, accompanying minor ksp-mag+/-pyr-cpy-mo veins, followed by a sodic-calcic (or strong propylitic?) assemblage of albite(?), actinolite, calcite+/-Fe-Carb that occurs with chalcopyrite (e.g., 232m). Near end of hole, fluid exsolution and UST textures are abundant, with wormy quartz and pegmatitic concnetrations of upward terminating crystals and chalcedonic qtz (near top of granite? porphyry? hot zone....) Mineralization: Disseminations within the porphyry (pyr>cpy>mo) are fine-grained but pervasive, and veining: 1. mo+/-qtz-cpy stringers +/- ksp halo. planar, 1-2mm, 60tca, 3/m. 1. magnetite w/ ksp halo. thin planar, 2-5mm, 50tca, 0.5/m 2. actinoite-calcite-cpy w/ albite in halo(?) advanced propylitic or sodic calcic? diffuse, 3-4cm, 70tca, 1/m. 3. qtz-cal-ser-pyr. stringer to planar 0.5mm, 30tca, 5/m 4. CaCO3, planar to re-exposing other veins, 0.2-1cm, planar, 60tca, 2-3/m Interval 243.85-EOH has coarse wormy quartz with chalcedonic to brecciating qtz-carbonate fill + pyrite +/- cpy, aspy, stib (? fine acicular dark grey-silver sulfide) Sulfides: 0.5% py, 0.3%cpy, 0.01%mo, 0.02%asp, tr. Sb?	243.85	EOH	243.85-EOH has coarse wormy quartz with chalcedonic to brecciating qtz-carbonate fill + pyrite +/- cpy, aspy, stib (? fine acicular dark grey-silver sulfide)	Propylitic	m	potassic	s	0.5	0.3		0		asp	0.02

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N17-01	N. Mostaghimi	0	3.05		Missing casing.														
N17-01	N. Mostaghimi	3.05	24.38	SCH	Overburden. Strongly weathered and fractured rock. Much of the interval is rubble (pieces <4 cm large). The main lithology is a banded, dark grey coloured gneissic schist with a strong tectonic fabric with concordant qtz-veins/bands. The gneissic-schist contains thin (<1 mm wide) folia of dark-coloured, chl after mafic minerals and bt (>65%) that aggregate into bands from several centimetres to 10s of centimetres wide that flank more felsic-folia and qtz-bands. Qtz-lenses are common as well. Three felsic (dyke?) units occur within this interval. The contacts between these felsic units and the gneissic schist are not well preserved or identifiable.													
N17-01	N. Mostaghimi					3.05	24.38	Strongly fractured rock and rubble											
N17-01	N. Mostaghimi					3.05	13.72	Tectonic foliation is 40-50 deg. TCA											
N17-01	N. Mostaghimi					13.72	14.85	Banded and strongly foliated felsic-unit. Granitoid?											
N17-01	N. Mostaghimi					14.85	20.19	Tectonic foliation is 40-50 deg. TCA											
N17-01	N. Mostaghimi					20.19	22.86	Banded and strongly foliated felsic-unit. Granitoid?											
N17-01	N. Mostaghimi					23.73	25	Banded and strongly foliated felsic-unit. Granitoid?											
N17-01	N. Mostaghimi					22.86	23.73	Tectonic foliation is 40-50 deg. TCA											
N17-01	N. Mostaghimi	24.38	39	SCH	The gneissic schist varies in concentrations of mafic minerals from 40% to 65-75%. The gneissic schist is dark-grey to cream-white and light-grey coloured based on the concentrations of mafic and felsic minerals. Clear, translucent qtz-veins are concordant with the strongly foliated rock. Py stringers and veinlets cross cut the main lithology. Py veinlets are not common. Py mineralization is <1% of the rock. Vfg sulphide-folia also occur parallel to the tectonic fabric. Milky-white qtz-veins with cb cross cut the fabric and warp the tectonic fabric in the gneissic schist.								0.9	0.1	0.1				
N17-01	N. Mostaghimi					23.48		Tectonic foliation is 40-50 deg. TCA											
N17-01	N. Mostaghimi					28.5	28.8	Rubble											
N17-01	N. Mostaghimi					29.5	29.67	Fractured rock											
N17-01	N. Mostaghimi					30.48	33.15	Fractured rock											
N17-01	N. Mostaghimi					28.44	33.15	More felsic-rich shistose-gneiss (40% mafics).											
N17-01	N. Mostaghimi					34.69	38.1	Fractured rock to rubble											
N17-01	N. Mostaghimi					38.9	39	Rubble											

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N17-01	N. Mostaghimi	39	87.91	SCH	Gneissic-schist contains mostly dark coloured chl that is strongly foliated and defines a tectonic fabric and is brecciated and destructed by the intrusion of felsic dykes - likely a contact zone with 20-30% dyke intrusions. Bull quartz veins are concordant to the main fabric and typically occur as folia, boudins or lenses. The gneissic schist contains small zones of increased qtz-augens (25-35%) and bt or chl +/-feldspars. These zones are suspected to be pre-tectonic dioritic intrusions. The YTT gneissic schist is cross cut by <30 cm wide fg-vfg leucogranite (microgranite - MGR) dykes/dykelets sometimes with plag phenocrysts (10-25%). These dykes are typically concordant but may have some contacts that cut the main fabric - however this may be limited to this brecciated zone. This unit normally contains chl wisps and elongate to undeformed plag grains that align with the main tectonic fabric. The fg-vfg leucogranite with plag phenocrysts and the gneissic shist are cross cut by a medium-grained granite. The medium-grained leucogranite does not appear deformed and occurs as 20-40 cm dykes. Aplite dykes also occur and cross cut the gneissic schist but are not common. All medium-grained leucogranite and fg-vfg leucogranite +/- plag phenocrysts are hydrothermally altered by silica-sericite. Some chl-ep alteration also occurs near the bottom of this interval. Silica-sericite alteration is strongly pervasive and occurs as veins and veinlets. This zone contains an increase in vein density (3-7 per 10 cm) and as a result, elevated mineralization. Chl/bt veinlets with cpy-py cut the rock at 45-30 deg. TCA which are cross cut by qtz+/-cpy+/-py+/-po+/-ser halo veins at 90 deg. TCA; qtz-+/-asp+/-cpy+/-cb infill veins at 25-30 deg. TCA are not common and cut the chl/bt-cpy-py veins. Asp-py veins at 90 deg. TCA are not common but also occur. Brittle fractures occur along bt/chl-cpy-py veinlets - qtz+/-cpy+/-po+/-py+/- ser halo are not fractured. Mineralization is predominantly within veins however, within altered zones, dissemination is common and varies in intensity (up to 5%). Mineralization: py: 3-4%; cpy: 0.8-1.1%; po: 0.1-0.3; mo: tr; asp: tr				Phyllic 1	m	silica	m	3.5	1	0.2	0	asp	0.001
N17-01	N. Mostaghimi					39	39.2	Fault with gouge at 70 deg. TCA. Strong lim alt											
N17-01	N. Mostaghimi					42.4	42.86	Rubble											
N17-01	N. Mostaghimi					42.84	42.86	Fault with healed-gouge at 75 deg. TCA											
N17-01	N. Mostaghimi					46.05	48.4	Fractured rock and some rubble											
N17-01	N. Mostaghimi			MGR		48.5	48.9	microgranite; foliated											
N17-01	N. Mostaghimi			MGR		51.26	51.7	microgranite; foliated; porphyritic											
N17-01	N. Mostaghimi			GRA		56.75	57.45	Leucogranite											
N17-01	N. Mostaghimi			GRA		57.91	59.44	Leucogranite											
N17-01	N. Mostaghimi					62.48	62.49	White qtz-cpy vein at 90 folds? And is cut by clear qtz-cpy-py veins at 90 and 45 deg. TCA											
N17-01	N. Mostaghimi			MGR		64.7	66.24	Microgranite; interfingers SCH; GRA intrudes MGR with relatively sharp boundary											
N17-01	N. Mostaghimi					70.42	71.11	Secondary bt alteration? Associated with qtz-augen rich mylonite?			Potassic	m							
N17-01	N. Mostaghimi			GRA		71.22	71.63	Leucogranite; 65 deg TCA											
N17-01	N. Mostaghimi					73.29	73.39	Aplite dyke cuts the rock at 70 deg TCA											
N17-01	N. Mostaghimi					57.91	76.2		Silica	s	Phyllic 1	m							
N17-01	N. Mostaghimi					76.7	80.12		Silica	s	Phyllic 1	m							
N17-01	N. Mostaghimi					83.08	83.3	Chl-ep veins and pervasive ep			Propylitic	m							

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N17-01	N. Mostaghimi					83.08	87	Increase in mineralization					6	1.4	0.5			asp	0.25
N17-01	N. Mostaghimi			MGR		84.27	85.57	Microgranite			Phyllic	1 s							
N17-01	N. Mostaghimi	87.91	137.1	SCH	>70% gneissic schist (SCH) is cross cut by microgranite and leucogranite with weak to trace silica and phyllic alteration overprint. Intermittent intervals of chl-ep-py alteration (propylitic) defined by chl-ep veins and pervasive ep and chl alteration of mafics(?) is common. No faults occur within this zone. Mineralization is low-grade and predominantly py+/-po+/-cpy. Mineralization includes: py: 2-4%; cpy: 0.3-0.6; po: tr; asp: 0.2.					Propylitic	w	3	0.5	0.3				
N17-01	N. Mostaghimi					88.73	88.76	Chl-ep veins and pervasive ep			Propylitic	m							
N17-01	N. Mostaghimi			GRA		93.36	93.94	Leucogranite cuts the 60 deg. TCA tectonic foliation in SCH at 80 deg. TCA											
N17-01	N. Mostaghimi			MGR		96	96.4	Foliated MGR with plag phenocrysts											
N17-01	N. Mostaghimi			MGR		97.57	97.87	MGR cuts the SCH at 70 and 45 deg. TCA; SCH contains a tectonic fabric of 45 deg. TCA											
N17-01	N. Mostaghimi					97.22	97.47	Chl-ep veins and pervasive ep			Propylitic	m							
N17-01	N. Mostaghimi					100.05	100.39	Increase in py mineralization asociated with chl-ep alteration					7	0.2	0.3				
N17-01	N. Mostaghimi			MGR		100.39	100.65	Foliated MGR with foliation oblique to tectonic fabric in SCH at 50 deg. TCA cuts the SCH at 50 deg. TCA.											
N17-01	N. Mostaghimi			MGR		101.6	101.8	Foliated MGR											
N17-01	N. Mostaghimi					105	105.5	Foliation in MGR at 70 deg. TCA; MGR contact at 80 deg TCA; Tectonic fol at 60 deg. TCA											
N17-01	N. Mostaghimi					109.13	110.13	Blue colour chl? Associated with SCH											
N17-01	N. Mostaghimi					111.85	112.55	Chl-ep alteration associated with veins and pervasive chl and ep			Propylitic	m							
N17-01	N. Mostaghimi			GRA		112.19	111.86	GRA contact with SCH at 30 deg. TCA and undulates											
N17-01	N. Mostaghimi					113.53	113.54	Chalcedony vein that brecciates the GRA is 2 mm wide with sharp margins and cuts the rock at 0 deg. TCA											
N17-01	N. Mostaghimi					113.15	113.17	Kspar halo associated with sulph-veinlets											
N17-01	N. Mostaghimi					115.16	115.72	0-5 deg. TCA SCH and is broken into the intruding GRA											
N17-01	N. Mostaghimi					112	126	Tectonic foliation in SCH is 30 deg. TCA											
N17-01	N. Mostaghimi					120.12	121.52	Increase in cpy associated with veinlets											

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N17-01	N. Mostaghimi			GRA		120.27	120.6	GRA dyke at 30 deg. TCA											
N17-01	N. Mostaghimi					121.32	121.52	Qtz-cpy-py vein is 5-10 deg. TCA						3					
N17-01	N. Mostaghimi					123	123.75	Sheeted sulph-stringers at 45 deg. TCA at 1 cm intervals.											
N17-01	N. Mostaghimi			MGR		123.28	123.75	MGR cuts the SCH at 30 deg. TCA											
N17-01	N. Mostaghimi					123.75	124	BRX MGR in SCH											
N17-01	N. Mostaghimi					119.35	137.09	Moderate ser alteration and silica alteration	Phyllic 1	m	silica	m							
N17-01	N. Mostaghimi					126	126.59	Tectonic foliation in SCH is 20 deg. TCA											
N17-01	N. Mostaghimi					126.59	137.09	QSP alteration is strong and pervasive, also associated with veins			Phyllic 1	s							
N17-01	N. Mostaghimi					127	127.05	GRA cuts the SCH at 70 deg. TCA and is cross cut by another white-coloured leucogranite dyke with >70% feldspars and qtz-grains (???) that are med-grained at 50 deg. TCA											
N17-01	N. Mostaghimi					128.95	129	Qtz-cpy-py vein is 5-10 deg. TCA						3					
N17-01	N. Mostaghimi					126.95	127.2	Tectonic fabric in SCH is 45 deg. TCA											
N17-01	N. Mostaghimi					127.2	137.09	0-20 deg. TCA orientation for tectonic fabric in SCH											
N17-01	N. Mostaghimi					130.17	130.2	Qtz-asp-py vein with cb infill is 30 deg. TCA										asp	5
N17-01	N. Mostaghimi					131.33	133.17	Increase in cpy+py stringers					5	0.6					
N17-01	N. Mostaghimi					134.45	137.09	Increase in cpy associated with veinlets						0.6				asp	0.3
N17-01	N. Mostaghimi	137.1	219.5	SCH	Strongly faulted zone with some brecciated zones and intercalated units. MGR and GRA intrusions are very common as well as several QFP dykes. MGR varies from strongly to weakly foliated. GRA cross cuts the MGR with varying orientation. The alteration comprises silica and sericite at strong to intense intensities; pervasive alteration and veins overprint all lithologies. Late cb-infill is common and moderate throughout the interval. Cb alteration is stronger in intensity near the bottom of this interval. A forest green to turquoise coloured ser is associated with zones of elevated cpy mineralization. Mineralization is directly associated with the alteration however, higher-grade mineralization is associated with altered MGR. Veins are common and include sulph (py+/-cpy) stringers that may be sheeted and/or stockwork. These veinlets are cross cut by 1 mm wide py-cpy veins and 2-3 mm and 5 mm wide qtz-cpy-py viens. Some qtz-cpy-py veinlets that are 1-2 mm wide may contain ser halos. Qtz-py-cpy-asp veins are common and typically infilled by cb +/- chalcedony. Chalcedony typically brecciates the rock. Mineralization includes: py: 6-8%; cpy: 0.8-1%; po: tr; asp: 0.3-0.6%; mo: tr			Phyllic 1	s	silica	s	7	0.9			asp	0.45
N17-01	N. Mostaghimi					137.09	137.7	Fault with cataclasite/gouge at 30 deg. TCA											
N17-01	N. Mostaghimi					138.85	141.73	Strongly fractured rock (3 5 per 10 cm)											
N17-01	N. Mostaghimi					139.5	143.4	Tectonic fabric in SCH is 60 deg. TCA											

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N17-01	N. Mostaghimi					143	143.1	Qtz-cb-asp-py-cpy vein with BRX at 35 deg. TCA										asp	2
N17-01	N. Mostaghimi					143.4	143.41	Fault with cb-infill at 20 deg. TCA cuts the SCH with a foliation of 5-10 deg. TCA											
N17-01	N. Mostaghimi					147	148.13	BRX											
N17-01	N. Mostaghimi					150.25	150.26	Fault at 40 deg. TCA with cb-infill cuts the SCH											
N17-01	N. Mostaghimi			GRA		150.37	150.4	GRA cuts the SCH at 40 deg. TCA; SCH has a tectonic foliation of 40 deg. TCA											
N17-01	N. Mostaghimi			MGR		150.77	150.8	MGR cuts the SCH at 70 deg. TCA											
N17-01	N. Mostaghimi					150.84	150.85	Fault cuts the SCH at 40 deg. TCA and contains py and asp with gouge.											
N17-01	N. Mostaghimi			GRA		151	157.04	Consistent asp mineralization associated with qtz-py-cpy veins at 30 to 45 deg. TCA. GRA dykes are common in this interval										asp	0.75
N17-01	N. Mostaghimi					151	154.55	Good cpy mineralzation						1.3					
N17-01	N. Mostaghimi					157.13	162.16	Low-grade mineralization					4	0.3					0.35
N17-01	N. Mostaghimi					162.16	187	Intense silica and sericite alteration. High density of sulph (py+/-cpy) stockwork stringers.	Phyllic 1	i	Silica	i							
N17-01	N. Mostaghimi					163.5	163.52	Fault at 30 deg. TCA with cb-infill seperates SCH above and GRA below											
N17-01	N. Mostaghimi			GRA		163.5	165.1	GRA dyke at 30 deg. TCA at upper contact and 50 deg. TCA at lower contact											
N17-01	N. Mostaghimi					163.84	163.86	Fault with gouge at 60 deg. TCA and hem-staining within 5 cm from fault towards the bottom of the drill core											
N17-01	N. Mostaghimi			MGR		164.88	164.94	Med-grained granite contains a sharp contact with the foliated microgranite. The foliation in the MGR is at 20 deg. TCA.											
N17-01	N. Mostaghimi					165.46	165.47	Fault at 70 deg. TCA and 30 deg. TCA both with cb-infill											
N17-01	N. Mostaghimi					166	183.23	Well mineralized with asp and cpy, py. Strong cb infill	Carbonates										

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N17-01	N. Mostaghimi					166.55	170.54	Asp mineralization is strong but mostly follows a single qtz-py-cpy vein that is parallel to the drill hole. Cb alteration is strong and a forest green to turquoise ser may be associated with mal? That typically occurs within faults and fracture fills.					6	1				asp	5
N17-01	N. Mostaghimi					170.54	170.75	Fault with gouge material is parallel to the drill core											
N17-01	N. Mostaghimi					171.85	173.1	Tectonic foliation within the SCH is 50 deg. TCA											
N17-01	N. Mostaghimi					175.16	187	BRX zone with increased qtz-veins											
N17-01	N. Mostaghimi					175.9	176.28	Fracture and fault infill at 15 and 40 deg. TCA with forest green ser/cb alteration.											
N17-01	N. Mostaghimi					178.31	178.85	Cataclasite with chalcedony groundmass and py, cpy rounded clasts and SCH clasts											
N17-01	N. Mostaghimi					179.15	179.17	Qtz-vein cross cuts everything else at 30 deg. TCA											
N17-01	N. Mostaghimi					175.16	175.18	Qtz-vein cross cuts everything else at 30 deg. TCA											
N17-01	N. Mostaghimi					187	187.05	Cataclasite with py and cpy clasts adjacent to a qtz-vein that cuts everything else at 30 deg. TCA. Asp occurs in proximity											
N17-01	N. Mostaghimi			QFP		183.23	187.31	QFP (?)is intensely silicified and sericitized. Strongly fractured											
N17-01	N. Mostaghimi					188.11	188.12	Fault with gouge at 30 deg. TCA; asp associated with vein adjacent to fault											
N17-01	N. Mostaghimi			GRA		190.07	190.35	Strongly altered leucogranite											
N17-01	N. Mostaghimi					191.3	192	Fault with mostly gouge at 40 deg. TCA											
N17-01	N. Mostaghimi				.	192.2	192.23	Strong cpy-py associated with qtz vein at 35 deg. TCA											
N17-01	N. Mostaghimi					192.76	193.2	Fault with gouge material at 30 deg. TCA											
N17-01	N. Mostaghimi					194.17	195.37	Brecciated zone											
N17-01	N. Mostaghimi					196	196.03	Cataclasite with chalcedony groundmass and SCH clasts; 30 deg. TCA											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-01	N. Mostaghimi					183.23	219.46	Mineralization decreases					1	0.2	0.1	0			
N17-01	N. Mostaghimi					197	199.1	Feldspar augen schist is strongly foliated and intensely silicified and sericitized; 50 deg. TCA											
N17-01	N. Mostaghimi			QFP		199.1	199.38	Tonalite or alkali feldspar granite with <1% mafics and >75% white feldspars cuts the SCH at 40-45 deg. TCA. Not foliated. Qtz groundmass is vfg and clasts are not identifiable. Feldspar grains are 1-2 mm wide											
N17-01	N. Mostaghimi					199.38		Strong cb alteration overprint											
N17-01	N. Mostaghimi					201.89	201.9	Qtz-py-cpy-asp vein at 20 deg. TCA											
N17-01	N. Mostaghimi					204.97	204.98	Fault at 65 deg. TCA with gouge											
N17-01	N. Mostaghimi			MGR		205	205.18	Microgranite is foliated adjacent to leucogranite seperated by fracture											
N17-01	N. Mostaghimi					209.1	209.11	Fault at 60 deg. TCA with gouge											
N17-01	N. Mostaghimi					211.52	211.53	Fault at 30 deg. TCA with cb-infill adjacent to a qtz-vein											
N17-01	N. Mostaghimi					217.33	217.34	Fault at 40 deg. TCA with cb-infill of a chalcedony vein with cataclasite											
N17-01	N. Mostaghimi					218	219.46	Fault with cataclasite; upper contact at 80 deg. TCA; lower contact contains gouge at 30 deg. TCA											
N17-01	N. Mostaghimi					219.23	219.46	Gouge and cb-infill											
N17-01	N. Mostaghimi	219.5	257.7	SCH	Gneissic schist cross cut by various intrusives. All lithologic units are weakly to moderately hydrothermally altered. Silica and phyllic alteration are the most common hydrothermal alteration types. No major structures intersect this zone. The foliation in the microgranite is parallel to flanking gneissic schist. Vein density is <1-2/10 cm and comprises qtz-sulph+/-mo veinlets with ser-haloes and py+/-po-stringers with cb-infill. A rare asp-py vein cross cuts the gneissic schist at 90 deg. TCA. Mo and po mineralization intersect the drill hole for the first time and are both associated with veins; po mineralzation occurs disseminated within gneissic schist as well. Mineralization: py: 1-3%; cpy: 0.15%; po: 0.25%; mo: tr; asp: 0.1%				Phyllic 1	m	Silica	m	2	0.2	0.3	0	asp	0.1
N17-01	N. Mostaghimi					219.46	222.7	Intense sulph-stringer stockwork; most of the mineralization is oxidized											
N17-01	N. Mostaghimi			QFP		222.7	223.92	Hematized zone is associated with a QFP dyke											
N17-01	N. Mostaghimi			QFP		222.7	223.92	QFP dyke is hematized and strongly silicified. Mineralization cross cuts the dyke. The upper contact with SCH is at 70 deg. TCA; lower contact with MGR at 60 deg. TCA											

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N17-01	N. Mostaghimi			MGR		224.63	225.67	Microgranite is strongly foliated and contains cpy mineralization											
N17-01	N. Mostaghimi					233.17	257.65	Weak, intermittent sericitization and silicification of rock	Phyllic 1	w	Silica	w							
N17-01	N. Mostaghimi					233.17	257.65	Weak carbonate overprint associated with veinlets and pervasive in proximity to fractures and phyllic alteration			Carbonate	w							
N17-01	N. Mostaghimi			MGR		239.27	240	Microgranite is strongly to moderate-strongly foliated											
N17-01	N. Mostaghimi			QFP		246	246.01	QFP dykelet at 40 deg. TCA is 1.5 cm wide and cross cut by qtz-cpy-po wispy veinlet with cb-infill at 30 deg. TCA											
N17-01	N. Mostaghimi					248.1	248.11	Asp-veinlet with py and cb-infill cuts the rock at 50 deg. TCA										asp	15
N17-01	N. Mostaghimi			MGR		250.05	250.91	Microgranite is strongly carbonatized and sericitized with intense qtz-stockwork that is mostly barren.											
N17-01	N. Mostaghimi			GRA		254.51		Leucogranite											
N17-01	N. Mostaghimi					253.83	253.9	Chl-ep-py alteration is weak and pervasive			Propylitic	w							
N17-01	N. Mostaghimi			MGR		235.78	235.79	Microgranite with a strong foliation that is pervasive into the adjacent SCH											
N17-01	N. Mostaghimi					246.5	257.65	Increase in po as disseminations and within stringers							2.3				
N17-01	N. Mostaghimi					256.75	256.96	Strongly foliated microgranite brecciated; 70 deg. TCA											
N17-01	N. Mostaghimi					256.17	256.38	Strongly foliated microgranite brecciated; 20 and 60 deg. TCA											
N17-01	N. Mostaghimi			GRA		256.57	256.6	Leucogranitic dykes with granophyric to myrmakitic textures											
N17-01	N. Mostaghimi	257.7	283.5	SCH	Fractured and brecciated zone of gneissic schist with a high density of intercalated intrusive units. This zone contains a moderate to strong alteration overprint. Moderate silica and sericite alteration intensity with small intermittent zones of strong intensities. The hydrothemal alteration is generally associated with veins but may occur pervasively. Carbonate alteration is common throughout the interval with stronger intensities within sporadic intervals. A moderate to strong propylitically altered zone comprises pervasive chl-ep-py alteration. Wtihin the propylitic alteration zone that is near EOH, mo, kspar, and mt mineralization occurs disseminated, and possibly as replacement of other minerals. Several breccia zones associated with pervasive sericitic alteration and leucogranitic intrusions that contain gneissic schist xenoliths. Small faults are common throughout this interval. Mineralization is generally stronger in intensity in zones that contain leucogranite and brecciated gneissic schist. Cpy mineralization is associated with po within po stringers and qtz+/-po+/-py+/-cpy veins; also associated with py in qtz-py-cpy veins. Mineralization of py and cpy in this zone within veins occurs as replacement - forming around proximal grains. Py mineralization increases near the EOH in association with chl-ep-py alteration. Po mineralization is strongly associated with the gneissic schist, especially within the brecciated zones. Po occurs as dissemination within gneissic schist but also commonly occurs as stringers.			Phyllic 1	s	Silica	s	5	0.9	3	0.1			

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N17-01	N. Mostaghimi			GRA		257.65	263.47	Leucogranite dyke intrusions are common and brecciate the gneissic schist sometimes containing the schist - xenolith. The gneissic schist in this zone contains high concentrations of disseminated po. This zone contains moderate sericite alteration associated to the mineralization. Po stringers are common. Cpy mineralization occurs but is not common	Phyllic 1	m	Silica	m	3	0.8	4.5	0			
N17-01	N. Mostaghimi					266.7	277.22	Increase in cpy mineralization						1	3				
N17-01	N. Mostaghimi			BRX		266.7	269.76	Brecciated zone similar to 257.65 - 263.47 m with granite intrusions and an increase in sericite alteration.											
N17-01	N. Mostaghimi					270.16	270.28	Strongly foliated microgranite without phenocrysts; fabric is parallel to the flanking SCH at 30 deg. TCA											
N17-01	N. Mostaghimi			MGR		270.53	270.57	Porphyritic microgranite is strongly foliated with a fabric oriented at 45 deg. TCA and the fabric is parallel to the tectonic fabric of the flanking SCH											
N17-01	N. Mostaghimi					270.94	271.2	Fault with open-space filling veins including cp											
N17-01	N. Mostaghimi					271.2	275	Breccia zone comprising mostly of microgranite dykes and gneissic schist											
N17-01	N. Mostaghimi					271.9	281	Moderate to strong propylitic alteration comprises of pervasive chl after bt and ep after feldspars											
N17-01	N. Mostaghimi					272.4	283.46	Moderate to strong carbonate alteration overprint comprises pervasive alteration and associated with veinlets.											
N17-01	N. Mostaghimi			MGR		276.55	276.8	Porphyritic microgranite intrusion contains moderate to strong foliation											
N17-01	N. Mostaghimi					277.22	281	Decrease in cpy and po mineralization						0.2	0.5				
N17-01	N. Mostaghimi			GRA		278.14	278.17	Leucocgranite with possible ab alteration of feldspars											
N17-01	N. Mostaghimi					278.84	281	Strong chl-ep-py (propylitic) alteration.			Propylitic	s							

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N17-01	N. Mostaghimi					281	283.46	Strong carbonate alteration overprints strong qtz veins and silica alteration	Carbonates		Silica	s							
N17-01	N. Mostaghimi					279.6	281	Kspar alteration also occurs in the groundmass of SCH (dissemination). Mt occurs within qtz-rich zone (possibly part of a leucocratic dyke).	Potassic	w	Propylitic	s							
N17-01	N. Mostaghimi					280.42	280.5	Diss. Mo and mt occur as concentrations in circular shapes associated with a qtz-rich vein or intrusive. Suspected that mo and mt replace another mineral. The combination of mt, mo and kspar alteration infer the presence of potassic alteration.											
N17-01	N. Mostaghimi					281	281.03	Fault contains gouge and occurs at 60 deg. TCA											
N17-01	N. Mostaghimi					282.63	282.93	Fault contains open-space veins and cataclasite; upper contact at 40 deg. TCA; lower contact at 60 deg. TCA											
N17-01	N. Mostaghimi			GRA		282.93	283.21	Leucogranite is strongly altered by carbonate and sericite											
N17-01	N. Mostaghimi					283.21	283.4	Cataclastic fault zone at 40 deg. TCA. Lower contact contains a 3 cm wide chalcedony breccia											
N17-02	L. Bickerton	0	3.25	OVB															
N17-02	L. Bickerton	3.25	10.37	Metamorphic	Lithology: Heavily weathered and somewhat fractured YTT host rock - banded gneiss. Interval is moderate oxidized, but fresh surfaces show interbanded felsic (dominantly qtz) and mafic (biotite rich) layers with metamorphic foliation at ~55tca. Banded gniessic layers are ~1-3cm in thickness and biotite-rich layers locally appear schistose. Alteration: Most of interval is altered by qtz+sericite+FeOx, both pervasively and associated with veining Mineralization: Most sulfides have been altered to oxides or weathered away, but minor veins that cross-cut foliation are present that appear to have been qtz-ser-pyr stringers (~1-3mm, 25tca, 5/m). Sulfides: 0.05% py					Iron	m	Phyllic 1	w	0.1				lim	5
N17-02	L. Bickerton	10.37	16.05	QFP	Lithology: Light grey, crowded (30-40% phenos) quartz-feldspar porphyry (QFP). Interval is moderately weathered and altered but primary textures are visible locally. Interval has patchy alteration that gives certain spots the appearance of xenoliths, where most feldspar are replaced by ser+FeOx. Primary mineralogy show feldspars as the dominant phenocryst content (~80% of phenos, euhedral to subhedral, sometimes glomerophyric, 0.5-3mm) and lesser rounded quartz eyes (~20% of phenos, 0.5-4mm). Accessory hematite (specular? secondary?) occur disseminated through the interval. The lower contact is a discrete 40tca intrusive conatact, the above contact shows brecciation and fault gouge between the QFP and the hostrock. Alteration: Most of interval is altered by qtz+sericite and an overprinting FeOx event. Feldspar phenocrysts are either replaced by sericite or a combonation of ser-FeOx. Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. Hematite+/- pyrolusite occurs disseminated through qfp, and 1-2cm veins with specular hematite fill (? +/- arseno??) and SiO2 flooded halos (3-4cm) occur at 70tca, 3/m, through this interval. Sulfides: 0.05% py + 2-3% hem					Iron	m	Phyllic 1	w	0.1				Hem	2.5

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N17-02	L. Bickerton	16.05	20.35	Metamorphic	Lithology: Dark grey to pale white banded gneiss to biotite schist (YTT metamorphic host rock). Mafic-felsic bands are finely interlayed in this interval (1-3mm, foliation ~55tca) and intermittently there is 3 to 10 cm bulk qtz veins parallel to foliation/cut by later fractures (i.e. these are early hydrothermal veins, associated with the YTT metamorphism? earlier intrusive that qfps?). There is also, locally, fine-grained heavily altered leucogranitic phases with irregularly follow foliation in the gneiss (e.g., 16.9-17m) - could be a pre- to syn-metamorphic intrusive? "microgranite"?... There is also local channels of hornfelsed YTT (e.g., 19.2-19.4m) that maintain overal foliation trend. Alteration: Most of interval is altered by qtz+/-sericite, particularily along folaition boundaries and contacts between more resistive and less resistive rock (e.g., biotite schist and bulk qtz veins) and an overprinting FeOx event. Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. and locally there is specular hemaitite(?) associated with the quartz veining. Sulfides: 0.01% py + 0.5%hem				Iron	m	Phyllic 1	w	0					hem	0.5
N17-02	L. Bickerton	20.35	21.3	LEU	Lithology: Similar to the sub-unit described above, light buff grey-yellow fine-grained leucogranite. Interval is moderately weathered/Fe-ox altered, but primary textures appear like the rock is dominantly equigranular anhedral quartz (~60%) and euhedral feldspar (~40%, mostly altered to vfg sericite+/-clay) with a slight magmatic fabric/imposed foliation(? approx 60tca). At this intersection, unit appears to have an irregular hydrothermal/aplitic component and is YTT xenolith-bearing. Alteration: Most of interval is altered by sericite and has patchy qtz (alteration or magmatic-hydrothermal fluid exsolution?) Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. Interval features a prominant qtz vein @ 20.8m with Fe-Ox (likely weathered from a sulfide) and a SiO2 flooded halo (could have been a phyllic qsp vein? Sulfides: 0.01% py + 0.5%hem				Iron	w	Phyllic 1	m	0					hem	0.5
N17-02	L. Bickerton	21.3	33.47	Metamorphic	Lithology: Dark grey to pale green banded gneiss to biotite-muscovite schist (YTT metamorphic host rock). Mafic-felsic bands are finely interlayed in this interval (1-3mm, foliation ~70tca) with intermittent bulk qtz veins exposing foliation. Sub intervals of strongly to intensely quartz-sericite altered fine grained leucogranite (microgranite?) occur through this unit (e.g., 23.3-24.14, 29.9-31m). Core reduced from HTW to NTW @ 30.48m. Alteration: Most of interval is overprinted by a Iron oxide alteration, that exposes fractures and along foliation planes. There appears to be a prior qtz+/-sericite alteration locally, particularily near veins and pervasively through sub-intervals of microgranite, where most all primary textures are overprinted by ser-qtz (e.g., 23.3-24.14m, 29.9-31m). Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. There is specular hemaitite(?) associated with quartz veining. Sub-intervals of altered microgranite appear to have hosted dense veining/stockwork of qtz-sulfide(?now hem+FeOx) with qtz-rich haloes. Sulfides: 0.01% py + 2%hem	23.3	24.14	Sub interval of strongly to intensely quartz-sericite altered fine grained leucogranite (microgranite?)	Iron	m	Phyllic 1	m	0					hem	2
N17-02	L. Bickerton					29.9	31	Sub interval of strongly to intensely quartz-sericite altered fine grained leucogranite (microgranite?)											
N17-02	L. Bickerton	33.47	34.9	LEU	Lithology: Similar to the unit described above- light grey, fine-grained leucogranite. Equigranular anhedral quartz (~55-60%) and euhedral feldspar (~40-45%, mostly altered to vfg sericite+/-clay) with accessory disseminated sulfides (alteration? now hematite...). Near lower contact, MGR beings to obtain flow-banded texture parallel to contact (or imposed foliation?, approx 70tca). Top contact is characterized by increased hydrothermal quartz and breccia nature to low angle contact (faulted? ~15tca). Alteration: Most of interval is altered by sericite and has patchy qtz (alteration or magmatic-hydrothermal fluid exsolution?). Mineralization: Unit is extenively veined by qtz-sulfide (now FeOx/specular hematite), planar, 65tca, 10/m, from stringer to 1cm. This veinset is overprinted by irregular to open space filling of bulk qtz associated with breccia faulting in the above contact. Sulfides: 0.05% py + 1% hem				Iron	m	Phyllic 1	m	0.1					hem	1
N17-02	L. Bickerton	34.9	46.12	Metamorphic	Lithology: Light green-grey to dark grey biotite-muscovite schist (YTT metamorphic host rock). Foliation is finely interlayed (1-3mm, foliation ~80tca) with intermittent qtz veins and SiO2 breccia exposing foliation (e.g., 38.2-38.3m, 39.1-39.62m). Sub intervals of fine grained leucogranite (microgranite?) dykes with a subvolcanic flow banding are present at 41-41.16m, 41.32-41.44m (flow banding may be confused with S1? dyke crosscuts sub-parallel to YTT foliation, so flow banding may be an igneous fabric...) Alteration: Most of interval is overprinted by a Iron oxide alteration, that exposes fractures and along foliation planes. There appears to be a prior qtz+/-sericite alteration locally, and is expressed more strongly near veins and sub-intervals of microgranite. Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. There is specular hemaitite(?) associated with quartz veining (2/m, 70tca, 1-5mm). Breccia occurs through sub-intervals in this section (e.g., 39-39.62m) where the cement has been replaced by FeOx and open space (possibly related to SiO2-sulfide breccia prior to Fe alteration? Sulfides: 0.01% py + 3%hem	38.2	38.3	SiO2 breccia exposing foliation												
N17-02	L. Bickerton					39.1	39.62	SiO2 breccia exposing foliation with FeOx (once sulfides?)											
N17-02	L. Bickerton					41	41.16	fine grained leucogranite (microgranite?) dykes with a subvolcanic flow banding											
N17-02	L. Bickerton					41.32	41.44	fine grained leucogranite (microgranite?) dykes with a subvolcanic flow banding											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-02	L. Bickerton	46.12	50.7	QFP	Lithology: Light grey, weakly crowded (25-30% phenos) quartz-feldspar porphyry (QFP). Similar to unit near top of hole, feldspars are the dominant phenocryst (~85%, plag>ksp - mostly replaced by ser, euhedral to subhedral, 0.5-3mm) and lesser rounded quartz eyes (~15% of phenos, 0.5-5mm). Accessory sulfides (?) weathered out leaving a pocked appearance to qfp. Groundmass is made up of aphyric SiO2-rich intermediate grey intrusive. Alteration: Most of interval is altered by qtz+/-sericite and overprinting FeOx. Feldspar phenocrysts are replaced by sericite. Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. Interval is moderately veined by: 1. FeOx stringers (previously sulfides?, planar to brecciating, 12/m, 40-60tca, 0.1-1cm) Sulfides: 0.05% py + 0.5% hem				Iron	m	Phyllic 1	m	0.1					hem	0.5
N17-02	L. Bickerton	50.7	54.54	Metamorphic	Lithology: Dark grey biotite-schist (YTT metamorphic host rock, similar to unit described above). Foliation is finely interlayed (1-4mm, foliation ~60-70tca) with less common intermittent qtz veins and minor SiO2 brecciating veins, somewhat exposing foliation. Alteration: Most of interval is overprinted by a weak to moderate iron oxide alteration. Tyically replaces/weathers any sulfides present and affects previous sericite alteration found along foliation planes and fractures. Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces appear to have pitch limonite. Hemaitite(?) associated with brecciating quartz and stringer qtz-veining (3/m, 60tca, 1-5mm). Sulfides: 0.01% py + 2%hem				Iron	m	Phyllic 1	w	0					hem	2
N17-02	L. Bickerton	54.54	56.06	QFP	Lithology: Similar to unit above last interval, light grey, moderately crowded (30-40% phenos) quartz-feldspar porphyry (QFP). Dominant phenocryst is fsp (~85%- mostly replaced by ser, euhedral to subhedral, 0.5-3mm) and lesser rounded quartz eyes (~15% of phenos, 0.5-5mm). Accessory sulfides (?) weathered out leaving a pocked appearance to qfp. Groundmass is made up of aphyric SiO2-rich intermediate grey intrusive. Alteration: Most of interval is altered by qtz+/-sericite and overprinting FeOx. Feldspar phenocrysts are replaced by sericite. Mineralization: Any sulfides appear to have been altered to oxides or weathered away, some fracture surfaces and breccia (e.g., 55.3-55.45m) fill appear to be coated with pitch limonite. Interval is moderately veined by: 1. FeOx stringers (previously sulfides?, planar to brecciating, 12/m, 40-60tca, 0.1-1cm) Sulfides: 0.05% py + 0.5% hem	55.3	55.45	qtz-sulfide breccia that has been overprinted by iron alteration, leaving a vuggy FeOx breccia.	Iron	m	Phyllic 1	w	0.1					hem	0.5
N17-02	L. Bickerton	56.06	71.8	Metamorphic	Lithology: Light grey to buff coloured muscovite-biotite-schist (YTT metamorphic host rock). Foliation is very finely layered (1-3mm, foliation ~65tca) with intermittent qtz veins, somewhat exposing foliation. Alteration: Most of interval is overprinted by a weak iron oxide alteration that replaces most sulfides. This event was preceded(?) by a moderate to strong phyllic (qtz-ser) alteration, replacing both schistose layers and fsp augen with fine grained yellow-buff sericite (e.g., 59.7-66m). These intervals of strong phyllic may or may not be related to thick qtz veins within (e.g., 60.36-60.52m). Mineralization: Any sulfides appear to have been oxidized or weathered away, some fracture surfaces as well as vein fill appear to have pitch limonite. Hemaitite(?) is associated with stringer qtz-veining (3/m, 60tca, 1-5mm) as well as appearing in thicker patches/veins where it occurs as a deep red FeOx with limonite (e.g., 59-59.1m). Sulfides: 0.01% py + 3%hem	59	59.1	Hemaitite(?) is associated with stringer qtz-veining (3/m, 60tca, 1-5mm) as well as appearing in thicker patches/veins where it occurs as a deep red FeOx with limonite	Iron	m	Phyllic 1	s	0					hem	3
N17-02	L. Bickerton					59.7	66	moderate to strong phyllic (qtz-ser) alteration, replacing both schistose layers and fsp augen with fine grained yellow-buff sericite											
N17-02	L. Bickerton					60.36	60.52	thick qtz vein											
N17-02	L. Bickerton	71.8	87.97	QFP	Lithology: Similar to QFP units described previously; light grey, moderately crowded (35% phenos) quartz-feldspar porphyry (QFP). Dominant phenocryst is fsp (~80%- mostly replaced by ser, euhedral to subhedral, 0.5-3mm), lesser subrounded quartz (~15% of phenos, 0.5-5mm), and round sulfide clots (~5%, 2-5mm, typically weathered away in this interval, leaving pocky appearance to rock). Groundmass is made up of aphyric SiO2-rich intermediate grey intrusive. Oxidation of bedrock apppears to be deacreasing, as sulfides are now visible in veins and as disseminated clots. Alteration: Most of interval has a moderate qtz+/-sericite alteration, particularily in haloes to qsp veins. This assemblage is overprinted by a weak Iron alteration, weakening from that felt in above intervals. Mineralization: Sulfides are more preserved in this interval, with an increase in veining in the qfp body. Disseminated pyr clots also occur in the porphyry, making up a small part of the phenocryst content (secondary?). 1. Qtz-aspy+/- pyr, brn (?tetrahedrite-stib? deep purple-blue sulfide), planar to wavy, 21/m to 3/m, 30tca, 2-5mm). slight SiO2 halo, highest density between 71.9-76.2m. Oxidation still occurs along some fractures and in groundmass between veins, with pitch limonite coating some fractures. Sulfides: 0.3% py, 0.02% brn, 0.4% aspy, + CuOx	71.9	76.2	densely veined area with aspy (Qtz-aspy+/- pyr, brn (?tetrahedrite-stib? deep purple-blue sulfide), planar to wavy, 21/m, 30tca, 2-5mm)	Iron	w	Phyllic 1	m	0.3	0.1				asp	0.4

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N17-02	L. Bickerton	87.97	89.67	HBX	Lithology: Fragment-supported hydrothermal breccia with fragments of both heavily altered YTT gneiss/schist (unit below) and of QFP (unit above). Fragments are angular to subrounded and have a heterogeneous size distribution (3mm to >26cm), and are mostly composed of YTT altered gneiss/schist (~55%) more so than leucogranite and microgranite. Cement varies from amorphous to chalcedonic SiO2 (35-45% of cement) to dominantly sericite (55-65% of cement; phyllic breccia?). These cements crosscut and grade into one another, and throughout the interval sericite has commonly been overprinted by FeOx or dissolved, leaving localized vuggy appearance to the breccia. Brecciation also occurs synchronously/just after qtz-pyrite-arsenopyrite veining. Alteration: The interval has been subjected to brecciation by fluids which precipitated a phyllic alteration assemblage (qtz-ser+/-sulfides) and heavily altered the surrounding units and fragments contained within to replace most feldspars/micas with sericite and/or SiO2 flooding. Some gneissic fragments are recognized through presence of relic foliation, but have been entirely replaced by quartz. A later iron overprint is present, similar to many intervals above, where FeOx appears to replace some disseminated and clotty sulfide, as well as stain most sericite to orange-brown. Breccia appears vuggy in places where Iron alteration has replaced/dissolved some prexisting sulfide(?). Mineralization: Sulfide content in this interval is primarily associated with early qtz-asp+/-pyr, bismuthinite(?) veins (planar to brecciating-entering cement, 0.2-0.5cm, 8/m, 15-30tca). This vein assemblage also precipitates as irregular patches in breccia cement (incipient breccia consisted of qtz-asp veining?). Sulfides: 0.2% py, 0.03% cpy, 1% aspy, tr. Bi				Iron	m	Phyllic 1	s	0.2	0			asp	1
N17-02	L. Bickerton	89.67	92.52	Metamorphic	Lithology: Light grey silica altered YTT metamorphic rock (foliated gneiss?). Relic foliation is visible but most of unit is replaced by qtz and sericite. Alteration: Weak iron overprint stains sericite but is not as prominant due to extensive silica flooding. Phyllic alteration is pervasive in this unit, related to breccias above and below? Mineralization: Sulfide content in this interval is primarily associated with early qtz-asp+/-pyr veins (planar, 0.5-1cm, 3/m, 15-30tca). Sulfides: 0.05% py, 0.8% asp				iron	w	Phyllic 1	s	0.1				asp	0.8
N17-02	L. Bickerton	92.52	100.3	HBX	Lithology: Similar description to breccia unit above, but more extensive: Fragment-supported hydrothermal breccia. Fragments are angular to subrounded and have a heterogeneous size distribution (3mm to >26cm), and are mostly composed of YTT altered gneiss/schist (~55%) more so than leucogranite and microgranite. Cement varies from amorphous to chalcedonic SiO2 (35-45% of cement) to dominantly sericite (55-65% of cement; phyllic breccia?). These cements crosscut and grade into one another, and throughout the interval sericite has commonly been overprinted by FeOx or dissolved, leaving localized vuggy appearance to the breccia. Brecciation also occurs synchronously/just after qtz-pyrite-arsenopyrite veining. Interval between ~94-96m appears less brecciated and may be host rock YTT with a local intrusive, vfg to fg qtz-fsp dominant leucogranite (micorgranite, MGR) found between 95.2-95.6m. Alteration: The interval has been subjected to brecciation by fluids which precipitated a phyllic alteration assemblage (qtz-ser+/-sulfides) and heavily altered the surrounding units and fragments contained within to replace most feldspars/micas with sericite and/or SiO2 flooding. Some gneissic fragments are recognized through presence of relic foliation, but have been entirely replaced by quartz. A later iron overprint is present, similar to many intervals above, where FeOx appears to replace some disseminated and clotty sulfide, as well as stain most sericite to orange-brown. Breccia appears vuggy in places where Iron alteration has replaced/dissolved some prexisting sulfide(?). Mineralization: Sulfide content in this interval is primarily associated with early qtz-asp+/-pyr, bismuthinite(?) veins (planar to brecciating-entering cement, 0.2-0.5cm, 8/m, 15-30tca). This vein assemblage also precipitates as irregular patches in breccia cement (incipient breccia consisted of qtz-asp veining?). Sulfides: 0.2% py, 0.08% cpy, 5% aspy, tr. Bi, brn	94	96	interval is less brecciated and may be host YTT (or 2m sized fragment?)										
N17-02	L. Bickerton					95.2	95.6	"Microgranite" intrusive, white coloured fine grained leucogranite											
N17-02	L. Bickerton	100.3	120.3	Metamorphic	Lithology: Light grey to dark grey qtz-biotite-muscovite-schist to augen-gneiss (103.7-112m), YTT metamorphic host rock. Foliation is very finely layered (1-3mm, ~55tca) with intermittent qtz+/-sulfide veins, somewhat exposing foliation. These are not to be confused with post-metamorphism hydrothermal veins which contain mineralization similar to that seen in the breccias above and cross-cut the foliation obliquely. Sub-intervals within this intersection contain small dykes (10-120 cm) of fine-fine grained flow-banded (foliated?) leucogranite (microgranite, e.g., 108.3-111.4m, 114.3-114.55m). these are subsequently intruded by thin dyklets of QFP (e.g., 108.38m) . There is also small dykes of a more fine- to medium-grained leucogranite that is fsp-muscovite rich (mostly altered to ser in this interval, e.g., 119.1-119.25m). Alteration: Interval is overprinted by a weak iron oxide alteration but predominantly is affected by qtz-ser alteration of the host trock and intrusives.The moderate to strong phyllic (qtz-ser) alteration, replaces more schistose foliation layers and any fsp augen and pervasively replaces intrusive dykes with fine grained yellow-buff sericite. Mineralization: Sulfide content in this interval is primarily associated with qtz-asp+/-cpy, pyr, marcasite veins (planar, 0.5-1cm, 3/m, 15-30tca). These occur synchronously(?) with qtz-pyr veins with thin sericite haloes and sericite dominant stringers, both of which are approx 4-5/m, at low angles tca (10-15). Within the dykes, sulfide mineralization increases with patches of pyr-cpy-aspy occuring at vein and fracture intersections. Sulfides: 0.3% py, 0.03%cpy, 0.5%asp	103.7	112	qtz and fsp-augen bearing schist/gneiss	iron	w	Phyllic 1	m	0.3	0			asp	0.5
N17-02	L. Bickerton					108.3	111.4	"Microgranite" intrusive: buff-coloured, fine-grained to very fine-grained, flow-banded/foliated leucogranite. Mineralized more so than surrounding host-rock.											
N17-02	L. Bickerton					108.37	108.38	thin QFP finger intrudes by exposing flowbands in microgranite											

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N17-02	L. Bickerton					114.3	114.55	"Microgranite" intrusive: buff-coloured, fine-grained to very fine-grained, flow-banded/foliated leucogranite. Mineralized more so than surrounding host-rock.											
N17-02	L. Bickerton					119.1	119.25	small dykes of a more fine- to medium-grained leucogranite that is fsp-muscovite rich, mostly altered to ser in this interval, e.g., 119.1-119.25m											
N17-02	L. Bickerton	120.3	125.9	LEU	Lithology: Light grey, heavily altered (+faulted), fine-grained leucogranite. Interval is very sericitized and contacts are present between leucogranite and another unit - mottled metamorphic rock (?microgranite? e.g., 124.28-124.58m). Equigranular anhedral quartz (~55-60%) and feldspar (~40-45%, altered to vfg sericite+/-clay) with accessory disseminated sulfides (pyr->marcasite). Alteration:Intrerval is strongly altered by sericite+quartz, destroying most primary texture in the leucogranite and host-rock (interval likely contains fragments/intersects/xenoliths of YTT). Mineralization:Interval has minor disseminated/patchy sulfides (pyr>cpy) related to the intrusion (or alteration?) and the remainder of mineralization is associatied with veining - which is denser within the leucogranite body. Some asp bearing veins have a dipyrimidal steel blue-grey coloured min - tetrahedrite? 1. qtz-pyr-cpy+/-ser, aspy (planar to irregular, 35tca, 10/m, 0.1-0.5cm) 2. qtz-ser+/- pyr (stringers, 10-15tca, 6/m) Sulfides: 0.5% py, 0.1%cpy, 0.06% asp, trace Sb	124.28	124.58	sub-interval of heavily altered/mottled YTT(?)	Phyllic 1	i			0.5	0.1			asp	0.06
N17-02	L. Bickerton	125.9	135.2	QFP	Lithology: Light grey, moderately crowded (35% phenos) quartz-feldspar porphyry (QFP). Dominant phenocryst is fsp (~80%, euhedral to subhedral, heterogeneous size distribution: 2mm-2cm), lesser subrounded quartz (~15% of phenos, 0.5-5mm), and disseminated sulfides (~5%, 2-5mm, pyr>>cpy). Groundmass is made up of aphyric SiO2-rich intermediate grey intrusive. Alteration and faulting make above contact difficult to decipher, but bottom contact is intrusive with YTT at approx. 20tca. Silica-sulfide breccias occur at 130.6-131.4m, 132.06-132.6m, 133-133.9m. These breccia are predominantly cement-supported with angular fragments of qfp>>microgranite (2mm-5cm) +/- small 1-2mm fragments(?) of anhydrite. The cement is composed of amorphous to chalcedonic SiO2 (~90%) and sulfide (~10%, pyr>>cpy=asp). Alteration:Entire interval is moderately silica +/- sericite (replacing most feldspar phenocrysts) altered, possibly related to silica-sulfide breccias and veins. Mineralization: Sulfides occur in this interval as disseminations, in veins, and as cement fill within the breccias (pyr/marcasite>>cpy... or is it non-magnetic po?). The best mineralization is likely found in qtz-cpy veins and cpy+/-asp with the massive pyr in breccia cement. 1. Qtz-pyr-cpy +/- aspy. planar, 6/m, 40tca, 0.5-1cm). SiO2 can be chalcedonic, amorphous and dark grey within vein and connects into cement of breccias. Sulfides: 2% py/marcasite, 0.2% cpy, 0.5% aspy	130.6	131.4	Silica-sulfide breccia	Phyllic 1	w	silica	s	2	0.2			asp	0.5
N17-02	L. Bickerton					132.06	132.6	Silica-sulfide breccia											
N17-02	L. Bickerton					133	133.9	Silica-sulfide breccia											
N17-02	L. Bickerton	135.2	153.5	Metamorphic	Lithology: Light grey to buff yellow (alteration?) qtz-biotite-muscovite-schist to augen-gneiss (YTT metamorphic host rock). Interval is phyllically altered . Foliation is very finely layered (1-3mm, ~55tca) with intermittent qtz+/-sulfide veins, somewhat exposing foliation. A dyke of microgranite with igneous fabric parallel to the contacts (sub-parallel to foliation) is intersected between 138.7-139.6m. The bottom contact is gradational to a intermingled and brecciated interval of meatmorphic and intrusive rock with subsequent hydrothermal activity. Alteration: Interval is overprinted by a dominantly light buff-coloured ser-qtz alteration (moderate phyllic) with minor FeOx overprint along some fracture surfaces and within fault gouge. Mineralization: Sulfide content in this interval is primarily restricted to veining +/- some disseminated pyr, although sulfides become pathcy at vein-vein and vein-fracture intercepts. 1. qtz-pyr-cpy-aspy +/- sph. planar to irregular and whispy discontinuous throughout , 1-2cm, 10/m, 60tca. 2. ser-qtz+/-pyr vein re-exposeing previous veinset, stringer to 1cm brecciating, 4-5/m, 15-30tca. Sulfides: 0.5% py, 0.1%cpy, 0.8%asp, tr. brn/cc?	138.67	139.62	microgranite	iron	w	Phyllic 1	m	0.5	0.1			asp	0.8
N17-02	L. Bickerton					151.86	151.87	~1cm vein of qtz-aspy-cpy-sph											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-02	L. Bickerton	153.5	171.9	Metamorphic	Lithology: Mixed interval of Light grey to buff yellow (alteration?) qtz-biotite-muscovite-schist/gneiss (YTT metamorphic host rock) and multiple felsic dykes; both fine- to medium grained leucogranite to very fine grained to microcrystalline granite (microgranite - see sub-intervals). The mottled character to the interval is partly due to extensive hydrothermal brecciation. Breccia is mostly fragment supported (~ crackle-breccia, although cement increases in sub-intervals labelled "HBX"). Cement is dominantly composed of silica +/- ser and sulfide (pyr), and is liekly related to alteration/mineralization and is similar to breccia described above.. Alteration: Interval is dominantly phyllically altered with a silica-sericite-sulfide fluid, most YTT gneiss/schist is altered to a buff yellow to brown that is similar in appearance to the microgranite dykes. Schistose intervals appear more crenulated and/or are broken up by silica infill. Leucogranites and microgranite altered heavily to sericite + qtz and are typically more veined/mineralized than YTT. Mineralization: Sulfide content in this interval most commonly occurs in veining. 1. dark grey qtz-cpy-brn +/- native Cu, CuOx. irregular to stringer, exposing and crosscutting foliation in YTT geniss. 0.1-1cm, 70tca, 4/m. 1. qtz-pyr-cpy+/- asp, CuOx, sph, stringer to 1cm and brecciating, 3/m, 40tca. Sulfides: 1% py, 0.2%cpy, 0.08%brn, 0.05%asp, tr. Cu, CuOx, sph	155.26	155.76	LEU: fine to medium grained leucogranite dyke	Phyllic 1	w	silica	m	1	0.2			bor	0.08
N17-02	L. Bickerton					155.76	158.1	HBX: silica-sulifde-sericite breccia- fragment suppoted											
N17-02	L. Bickerton					157.38	157.58	MGR: fine-grained microgranite											
N17-02	L. Bickerton					158.1	158.35	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					159.9	160	Native Cu with silica and bornite in brecciating vein											
N17-02	L. Bickerton					161.8	162	Native Cu with silica and bornite in brecciating vein											
N17-02	L. Bickerton	171.9	173.1	LEU	Lithology: Light buff coloured fine to medium-grained leucogranite. Interval is very sericitized and contains xenoliths(?) of YTT metamorphic. Equigranular anhedral quartz (~55-60%) and feldspar (~40-45%, altered to vfg sericite+/-clay) with accessory disseminated sulfides (pyr). Alteration:Intrerval is strongly altered by sericite+quartz, replacing most feldspar in the leucogranite. Mineralization:Interval has minor disseminated/patchy sulfides (pyr>cpy) related to the intrusion (or alteration?) and the remainder of mineralization is associatied with veining - which is denser within the leucogranite body when veins intersect fractures (sulfides become patchy. 1. qtz-pyr-cpy+/-ser, aspy (planar to discontinuous, 55tca, 8/m, 0.1-1cm) 2. qtz-ser+/- pyr (stringers to re-exposing veins, 10-15tca, 6/m) Sulfides: 1.2% py, 0.08%cpy, 0.02% asp				Phyllic 1	m			1.2	0.1			asp	0.02
N17-02	L. Bickerton	173.1	177.6	Metamorphic	Lithology: Light grey to dark grey silica-sericite altered qtz-biotite-muscovite-schist (gneiss? YTT metamorphic host rock). Sub-interval within this intersection contains small dyke (176.2-176.5m) of fine grained qtz-fsp leucogranite (microgranite). Most of the unit has silica replacement but foliation is still visible (approx 35 tca). Copper bearing veins cross-cut foliation and increase in density in the microgranite sub-interval. Alteration: Interval is overprinted by a weak iron oxide alteration but predominantly is affected by qtz-ser alteration of the host trock and intrusives.The moderate to strong phyllic (qtz-ser) alteration, replaces more schistose foliation layers and any fsp augen and pervasively replaces intrusive dykes with fine grained yellow-buff sericite. Mineralization: Interval has rare patchy sulfides related to intersectiong veins and fracutres, and the remainder of mineralization is associatied with veining - which is denser within the leucogranite: 1. qtz-pyr-cpy+/- CuOx w/ SiO2 halo (planar to discontinuous, 55tca, 8/m, 0.1-1cm) 2. qtz-ser+/- pyr (stringers to re-exposing veins, 10-15tca, 6/m) Sulfides: 1% py, 0.5%cpy, 0.01%asp	176.15	176.45	MGR(?): fine grained qtz-feldspar leucratic intrusive/dyke, Could be microgranite? Less altered and finer-grained leucogranite?	Phyllic 1	m			1	0.5			asp	0.01
N17-02	L. Bickerton	177.6	179.1	MGR	Lithology: Light buff coloured felsic intrusive - Microgranite. Very fine- to fine-grained qtz-feldspar leucogranite, minor chill margin ~10-15cm from contact and slight appearance of an igneous fabric (flow banding? foliation?). Alteration: Interval is overprinted by a weak to moderate phyllic alteration, replacing most feldspar with sericite and leaving the rock with a yellow buff colour. Silica brecciation that affected earlier units appears to have veined this interval. Mineralization: Interval is densely veined (~20/m): 1. qtz-cpy+/- born, CuOx w/ SiO2 halo (planar to discontinuous, 55tca, 8/m, 0.1-1cm) 2. qtz-pyr-cpy (planar with clotty sulfides, 40tca, 15/m) 3. qtz-ser+/-pyr (irregular to whispy and re-exposing, 25tca, 10/m) Sulfides: 0.5% py, 0.06%cpy, 0.1% brn				Phyllic 1	m			0.5	0.1			bor	0.1

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-02	L. Bickerton	179.1	217.3	Metamorphic	Lithology: Light grey to dark grey silica-to-sericite altered qtz-biotite-muscovite-schist (gneiss? YTT metamorphic host rock). Interval is intercalated with thin dykes (<1m) of two lithologies, in order of abundance: fine- to medium grained buff coloured qtz-feldspar-muscovite(?) leucogranite (LEU), fine to very-fine grained and flow-banded white to buff coloured qtz-fsp leucogranite (MGR; see sub-interval depths). Localized bands of the gneiss have undergone significantly more silica replacement and contains higher density of veining, but overall foliation is still visible (approx 30-50 tca). Alteration: Qtz+/-ser alteration of the host trock and intrusives throughout is weak to moderate and stronger near faulted intervals. The moderate to strong phyllic (qtz-ser) alteration, replaces more schistose foliation layers and can pervasively replace feldspar within the dykes with fine grained yellow-buff to green sericite. Some intervals of the gneiss have undergone extensive silica flooding, leaving light to dark grey quartz-rich bands (although foliation appears to be preserved when observed cloasely) that favor qtz-sulfide veining and sulfide disseminatation. Mineralization: Interval has mineralization associatied with veining - denser within the leucogranite and silica altered layers of gneiss: 1. qtz-pyr-cpy+/-aspy, bismuthite?? (stringers to thicker and planar, 0.1-1.2cm, 10-40tca, 5/m) 2. qtz-cpy-brn+/- CuOx (?could CuOx be coating pyr to appear like brn?) w/ SiO2 halo (planar to discontinuous, 65tca, 2/m, 0.1-2cm) 3. qtz-ser-pyr (irregular stringer and exposing selvages to previous veins, 0.1-0.3cm, 8/m). Sulfides: 1% py, 0.2%cpy, 0.12% bor, 0.08%asp, tr. CuOx, Bi	180.47	181	MGR: microgranite dyke	Phyllic	1	m		1	0.2				bor	0.12
N17-02	L. Bickerton					181.23	181.49	MGR: microgranite dyke											
N17-02	L. Bickerton					182.31	182.37	MGR: microgranite dyke											
N17-02	L. Bickerton					183.2	183.6	MGR(?): microgranite dyke											
N17-02	L. Bickerton					183.7	184	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					187.43	188.65	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					190.03	190.46	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					192.7	193.55	LEU w/ xenoliths											
N17-02	L. Bickerton					195.35	195.49	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					199.28	199.64	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					200.64	200.96	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					201.4	201.5	CuOx with bornite in vein (calcanthanite?)											
N17-02	L. Bickerton					203.07	203.17	CuOx with bornite in vein (calcanthanite?)											
N17-02	L. Bickerton					202	203	LEU: fine to medium grained leucogranite dyke											
N17-02	L. Bickerton					209.35	209.48	heavy SiO2 flooding in gneiss											
N17-02	L. Bickerton					214.85	215	1cm vein of qtz-bornite-cpy											
N17-02	L. Bickerton					215.3	217	heavy SiO2 flooding in gneiss +/- qtz-sulfide veins - appears like a dyke??											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-02	L. Bickerton	217.3	220.1	LEU	Lithology: Light buff coloured fine to medium-grained leucogranite. Equigranular anhedral quartz (~55-60%) and feldspar (~40-45%, typically altered to vfg sericite+/-clay) with accessory disseminated sulfides (pyr, two generations?-brassy and darker, fine-grained brown pyr). Locally this interval appears to host xenoliths of the YTT metamorphic rock, e.g. @ 219m, and minor hydrothermal breccia (dominantly silica infill). Alteration:Intrerval is moderately altered by sericite+quartz, replacing most feldspar in the leucogranite, but primary textures remain. Locally, this alteration is increased to strong (e.g., 218-220m). Mineralization:Interval has minor disseminated/patchy sulfides (pyr>cpy) related to the intrusion and the remainder of mineralization is associatied with veining: 1. qtz-pyr-cpy +/- asp, marcasite(?) (planar, 60tca, 4/m, 0.3-1cm) 2. qtz-ser+/- pyr (stringers to re-exposing veins, 20tca, 6/m) Sulfides: 0.5% py, 0.1%cpy, 0.01% asp	218.3	218.45	aplite dyke within leucogranite	Phyllic 1	m			0.5	0.1				asp	0.01
N17-02	L. Bickerton					219	219.2	YTT xenolith in LEU? Minor HBX below											
N17-02	L. Bickerton					218	220	phyllic alteration increases, ser replaces feldspars and qtz content increases.											
N17-02	L. Bickerton	220.1	224.3	Metamorphic	Lithology: Short interval of metamorphic rock (YTT host-rock) between leucogranite intrusives. Quartz-biotite schist to gneiss with a foliation at approx. 60tca. Quartz segregations aligned parallel to foliation may be discontinuous gneissic bands or syn- to pre-kinematic hydrothermal qtz. Interval is somehwat faulted and weakly to moderately altered (qtz-ser). sericite stringers are near parallel to core axis and oblique to foliation. Alteration: Qtz+/-ser alteration of the host trock and intrusives throughout is weak to moderate and somehwat stronger (ser) near faulted intervals. The phyllic (qtz-ser) alteration, replaces more schistose foliation layers with fine grained yellow-buff sericite. Mineralization: Interval has mineralization associatied with veining: 1. qtz-pyr (irregular stringer, sulfides become patchy when crossing qtz bands, 0.1-0.2cm, 10/m). 2. ser-pyr+/- qtz (stringers, 0.1cm, 15-20tca). Sulfides: 0.5% py, 0.02%cpy				Phyllic 1	m			0.5	0					
N17-02	L. Bickerton	224.3	228.1	LEU	Lithology: Similar to leucogranite above; light buff coloured fine to medium-grained leucogranite. Equigranular anhedral quartz (~55-60%) and feldspar (~40-45%, typically altered to vfg sericite and clay) with accessory disseminated sulfides (pyr). interval has higher vein density and is more impacted by qtz-sericite alteration than surrounding YTT. Alteration:Intrerval is moderately to strongly altered by sericite+quartz, particularily in proximity to apparent faults (gouge appearance in discrete intervals within the LEU. Some veining have SiO2 rich haloes and grey silica appears patchy to be flooding the leucogranite along with sericite (+rimming previous whiter qtz grains) Mineralization:Interval has minor disseminated sulfides (pyr>>cpy) related to the intrusion and the remainder of mineralization is associatied with veining: 1. qtz-pyr-cpy with thin SiO2 halo (planar, 50tca, 10/m, 0.2-1cm) 2. qtz-ser+/- pyr (stringers to re-exposing veins, 10-15tca, 4/m) Sulfides: 0.8% py, 0.1%cpy, 0.03% asp				Phyllic 1	m			0.8	0.1				asp	0.03
N17-02	L. Bickerton	228.1	240.1	Metamorphic	Lithology: Light grey to dark grey silica-to-sericite altered qtz-biotite-muscovite-schist (gneiss? YTT metamorphic host rock, foliation at ~50tca). Interval is intercalated with thin dykes (<or=1m) of two lithologies, in order of abundance: fine- to medium grained buff coloured qtz-feldspar-muscovite(?) leucogranite (LEU), fine to very-fine grained and flow-banded white to buff coloured qtz-fsp leucogranite (MGR; see sub-interval depths). Localized bands of the gneiss have undergone significantly more silica replacement and contains higher density of veining, but overall foliation is still visible (approx 30-50 tca). At interval 234-235.7m, within the microgranite dyke is a crackle-type breccia/stockwork of biotite-silica/qtz-sulfide that gives the rock a darker and more mottle appearance (potassic?); this interval also contains low angle veins that carry significant cpy+/-asp mineralization. Alteration: Qtz+/-ser alteration of the host trock and intrusives throughout is weak to moderate. The moderate phyllic (qtz-ser) alteration pervasively replaces feldspar within the dykes with fine grained yellow-buff to green sericite and off-white clays. Microgranite dykes appear to have undergone more silica alteration and, locally, brecciation by silica and biotite-sulfides (these dykes see moderate potassic/silic alteration?). Mineralization: Interval has mineralization associatied disseminated sulfides (pyr>>cpy) and more so with veining - denser within the leucogranite dykes and within the microgranite: 1. qtz-cpy-pyr+/-anh, aspy, bismuthite? (planar, 0.3-2cm, 10-30tca, 2/m) 2. qtz-cpy-pyr (stringers, more prominant in granite dykes, 0.1-0,3cm, 8/m, 60-70tca) 3. qtz-ser+/-pyr (irregular stringer and exposing selvages to previous veins, 0.1-0.3cm, 5/m). Sulfides: 2% py, 0.8%cpy, 0.08%asp, tr. Bi	232.38	232.9	MGR: microgranite dyke	Phyllic 1	m	silica	m	2	0.8				asp	0.08
N17-02	L. Bickerton					232.7	233.17	MGR: microgranite dyke											
N17-02	L. Bickerton					233.3	235.7	MGR: microgranite dyke											
N17-02	L. Bickerton					234	235.7	crackle-type breccia with biotite-silica-sulfide cement											
N17-02	L. Bickerton					235	235.3	1-2cm thick vein of cpy, pyr, aspy(?), sph											
N17-02	L. Bickerton					236	237	LEU: leucogranite dyke											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-02	L. Bickerton	240.1	241.9	LEU	Lithology: Short interval similar to leucogranite above; light buff coloured fine to medium-grained leucogranite. Equigranular anhedral quartz (~50%) and feldspar (~50%, typically altered to vfg sericite and clay) with accessory disseminated sulfides (pyr). interval has higher vein density and locally has 3-5cm subrounded bulk quartz incorporated into intrusion (xenoliths from qtz bands in YTT?). Alteration:Intrerval is moderately to strongly altered by sericite+quartz, particularily in proximity to apparent faults (gouge appearance in discrete intervals within the LEU. Some veining have SiO2 rich haloes and grey silica appears patchy to be flooding the leucogranite along with sericite (+rimming previous whiter qtz grains) Mineralization:Interval has minor disseminated sulfides (pyr>>cpy) related to the intrusion and the remainder of mineralization is associatied with veining: 1. qtz-pyr-cpy with thin SiO2 halo (planar, 50tca, 10/m, 0.2-1cm) 2. qtz-ser+/- pyr (stringers to re-exposing veins, 10-15tca, 4/m) Sulfides: 0.5% py, 0.06%cpy				Phyllic 1	m			0.5	0.1					
N17-02	L. Bickerton	241.9	246.6	QFP	Lithology: Light to dark grey, weakly crowded (25-30% phenos) quartz-feldspar porphyry (QFP). Interval is extensively silica altered but, where visible, primary textures show feldspars are the dominant phenocryst (~80%, plag>ksp - mostly replaced by ser, euhedral to subhedral, 0.5-3mm) and there are lesser rounded quartz eyes that are sporadically spotted through the alteration (~15% of phenos, 0.5-5mm). Sulfides (?alteration?) make up approx 5% of the interval and are homogeneously distributed through the unit. Groundmass is made up of light to dark grey aphyric SiO2-rich intermediate grey intrusive. Close to contacts, flow of the qfp and turbulence around phenocrysts is visible as well as stoping of surrounding YTT and leucogranite (QFP a later dyke). Alteration: Interval is heavily and pervasively silica +/-sulfide altered, masking most primary textures. Locally, in proximity to certain fractures and veins, sericite+/-qtz, pyr alteration affects the qfp- making the rock softer and buff to yellow in colour. Mineralization: Disseminated through the interval is clots of pyrite, liekly a primary feature intensified by qsp and silica-sulfide alteration. Sulfides also occur as veins: 1?. qtz-cpy-pyr+/- asp (planar to brecciating, 0.5cm, 55tca, 2/m) 1?. qtz-pyr-bor +/-asp? (planar, 1cm, 35tca, 0.5/m) 2. pyr-cpy w/ pyr in halos (stringers, irregular to discontinuous, 0.1-0.3cm, 15-20tca, 8/m) 2. ser-qtz-pyr w/ ser halo (irregular to re-exposing of previous veins, 0.1-1cm, 15tca, 10/m) Sulfides: 1% py, 0.05% cpy, 0.02% asp, 0.1% bor?	244.5	244.6	Vein of qtz-pyr-bor+/-asp? (planar, 1cm, 35tca)	Phyllic 1	w	silica	s	1	0.1			bor	0.1
N17-02	L. Bickerton	246.6	260.6	Metamorphic	Lithology: Light grey to dark grey silica-to-sericite altered qtz-biotite-muscovite-schist (gneiss? YTT metamorphic host rock, foliation at ~10-20tca). Interval is intercalated with thin dykes of fine- to medium grained buff coloured qtz-feldspar-muscovite(?) leucogranite (LEU), and a pre- to syn-metamorphic medium-grained white coloured leucogranite (gneissic layer?) that occurs locally. Some intervals of gneiss have undergone significant silica alteration, giving the appearance of a separate fine grained intrusive, but relic foliation is present. Alteration: Qtz+/-ser alteration of the host trock and intrusives throughout is weak to moderate. The moderate phyllic (qtz-ser) alteration pervasively replaces feldspar within the dykes with fine grained yellow-buff to green sericite and off-white clays. Heavy silica alteration in the gneiss replaces most textures and mineralogy, leaving a medium-grey qtz-rich interval between 252.6-253m and 254.6-258.4m Mineralization: Interval has mineralization associatied disseminated sulfides (pyr>>cpy) and more so with veining - denser within the leucogranite dykes and in the silica altered gneiss: 2. qtz-cpy-pyr (stringers, 0.1-0,1cm, 10/m, 20-40tca) 3. qtz-ser+/-pyr (irregular stringer and exposing selvages to previous veins, 0.1-0.3cm, 5/m). Sulfides: 1.5% py, 0.3%cpy	247	247.4	LEU: medium grained leucogranite dyke(?). Equigranular, cross-cuts foliation.	Phyllic 1	m	silica	m	1.5	0.3				
N17-02	L. Bickerton					250.85	252.6	LEU: medium grained leucogranite dyke(?). Equigranular, cross-cuts foliation.											
N17-02	L. Bickerton					252.6	253	Heavy silica alteration in the gneiss											
N17-02	L. Bickerton					254.6	258.4	Heavy silica alteration in the gneiss											
N17-02	L. Bickerton					256.6	257	light grey to off-white fsp-porphyry(?) with penetrativ fabric parallel to contacts (igneous? Tectonic?)											
N17-02	L. Bickerton					259	259.15	light grey to off-white fsp-porphyry(?) with penetrativ fabric parallel to contacts (igneous? Tectonic?)											
N17-02	L. Bickerton					260.16	260.38	LEU: medium grained leucogranite dyke(?). Equigranular, cross-cuts foliation.											
N17-03	L. Bickerton	0	7.72	OVB	no core recovered														

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N17-03	L. Bickerton	7.72	50.78	Metamorphic	Lithology: Dark grey to pale grey qtz-biotite gneissic schist (YTT metamorphic host rock, foliation at ~80tca). Interval is intercalated with thin to meter scale leucoratic dykes of 1) dominant dyke occurance of fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) with a fabric (imposed foliation? magmatic fabric?), and 2) medium grained buff coloured qtz-feldspar-muscovite(?) leucogranite (LEU). Some gneissic layers, particularly within the contact aureoloes of dykes, have undergone significant silica alteration. Locally (see sub-ints), this unit is brecciated by a cement-supported hydrothermal breccia intersect; the cement is composed of silica+/-sulfide(?typically oxidized to FeOx/specular-hem +/- pyrolusite) and fragments (1mm-10cm, rounded) composed of YTT metamorphic +/- quartz-feldspar porphyry. Alteration: Interval is pervasively weakly to moderately altered by sericite and quartz with a weak iron oxidation overprint. Mineralization: Interval has mineralization associatied minor sulfides within breccia cement (pyr>>cpy) and dominantly within veining, much of which has been replaced by FeOxides: 1. qtz-pyr-aspy +/- cpy (planar diffuse, 1-4cm, 0.5/m, 55tca) 2. qtz-ser+/-pyr (irregular stringer and exposing selvages to previous veins, 0.1-0.3cm, 10/m). Sulfides: 0.5% py, 0.02%cpy, 0.05%asp, 3% hem	17.7	18	medium grained buff coloured qtz-feldspar-muscovite(?) leucogranite (LEU)	iron	m	phyllic 1	m	0.5	0			asp	0.05
N17-03	L. Bickerton					23.16	23.61	Interval of cement-supported hydrothermal breccia. Cement is composed of silica+/-sulfide(?typically oxidized to FeOx/specular-hem) and fragments (1mm-10cm, rounded) are composed of YTT metamorphic (+/- quartz-feldspar porphyry).											
N17-03	L. Bickerton					24.18	24.98	Interval of cement-supported hydrothermal breccia. Cement is composed of silica+/-sulfide(?typically oxidized to FeOx/specular-hem) and fragments (1mm-10cm, rounded) are composed of YTT metamorphic (+/- quartz-feldspar porphyry).											
N17-03	L. Bickerton					25.35	25.62	fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) with a fabric (imposed foliation?)											
N17-03	L. Bickerton					26	27	Interval of cement-supported hydrothermal breccia. Cement is composed of silica+/-sulfide(?typically oxidized to FeOx/specular-hem) and fragments (1mm-10cm, rounded) are composed of YTT metamorphic.											
N17-03	L. Bickerton					38.5	38.96	fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) with a fabric (imposed foliation?)											
N17-03	L. Bickerton					42.16	42.78	fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) with a fabric (imposed foliation?)											
N17-03	L. Bickerton					45.15	45.16	Vein of qtz-pyr-aspy +/- cpy (planar diffuse, 1cm, 0.5/m, 55tca)- coarse aspy											

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N17-03	L. Bickerton					47.24	47.44	fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) with a fabric (imposed foliation?)											
N17-03	L. Bickerton					48.37	48.67	Veins of qtz-pyr-aspy +/- cpy (planar diffuse, 1-4cm, 0.5/m, 55tca)- coarse aspy											
N17-03	L. Bickerton					48.69	49.7	fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) with a fabric (imposed foliation?)											
N17-03	L. Bickerton	50.78	58.02	HBX	Lithology: Heavily brecciated/totally replaced YTT metamorphic rock +/- microgranite. Breccia is composed dominantly of magnetite and pyrite +/- hematite, arsenopyrite +/- chlorite, most of which are replacing the host rock, although thick sulfide veins are also present cutting the interval at low angles to core axis. Center of interval (i.e., 53.1-54.66m) is YTT that doesn't have extensive replacement but is heavily oxidized and vuggy (dissolved sulfides from veining? fault zone?). Alteration: Interval is pervasively replaced by hydrothermal breccia mineralization, predominantly magnetite and hematite (+/- chlorite?). Alteration/mineralization is texture destructive and original host rock composition is difficult to determine. Mineralization: Interval has extensive sulfide mineralization associatied with replacement and brecciation of the host-rock (mostly pyr>asp,cpy + Fe Oxides like mag and hem). Veining through this interval is low angle and erratic/acting as breccia cement: 1. qtz-pyr-aspy +/- cpy (planar to irregular and diffuse, 1-4cm, 20/m, 10-15tca) 2. qtz-pyr-cpy +hem(?) (irregular stringer to branching, 0.1-1cm, 40/m). 3. ser-FeOx (stringer, 0.1-0.01cm, 10-12tca, 30/m) Sulfides: 5% py, 0.2%cpy, 1%asp, 10% hem, 30%mag	53.1	54.66	Oxidized interval where primary lithology is visible (YTT)	Iron	i			5	0.2			asp	1
N17-03	L. Bickerton	58.02	80.78	Metamorphic	Lithology: Intercalated interval of YTT metamorphic (qtz-biotite gneissic schist) and cross-cutting dykes of porphyritic microgranite (MGR). Dark grey to brown qtz-biotite gneissic schist (foliation at ~70tca) sporadically has qtz-rich discontinuous bands parallel to foliation planes. Dykes are of variable thickness (see sub-intervals) and are fine- to very fine-grained qtz-feldspar leucratic microgranite (MGR) that appear felspar-porphyritic and do not have the typical fabric seen in previous holes. Could this be a sub-lithology of microgranite? Well mineralized/veined, missing quartz eyes to be termed a QFP... Locally, the coarser grained qtz-fsp-musc leucogranite can be seenn and it appears like the microgranite cross-cuts the leucogranite, although the contacts are diffuse and gradational - feldspar "phenocrysts" may actually be dispersered xenocrysts from the coarser leucogranite. Alteration: Interval is pervasively moderately altered by quartz +/- sericite and has a weak iron oxidation overprint. Mineralization: Interval has mineralization associatied dominantly with veining, which increases in density within the MGR dykes as discontinuous to patchy sulfide stringers: 1. qtz-cpy-bor-aspy w/ SiO2 halo (angular to vuggy, 0.5-3cm, 0.5/m - more common in MGR, 20tca) 1. qtz-pyr-cpy +/- CuOx(?), FeOx with minor SiO2 halo (planar to planar-diffuse, 0.1-2cm, 15/m, 35tca) 2. qtz-pyr (irregular stringer, 0.1-0.3cm, 5/m). Sulfides: 0.8% py, 0.3%cpy, 0.05% bor, 0.1%asp, +2%hem	61	61.6	fsp-porphyritic to fine-grained qtz-feldspar leucratic microgranite (MGR?) *lacking fabric	iron	m	phyllic 1	w	0.8	0.3			asp	0.1
N17-03	L. Bickerton					62.6	63.4	fsp-porphyritic to fine-grained qtz-feldspar leucratic microgranite (MGR?) *lacking fabric											
N17-03	L. Bickerton					64.96	65.66	fsp-porphyritic to fine-grained qtz-feldspar leucratic microgranite (MGR?) *lacking fabric											
N17-03	L. Bickerton					66.2	66.26	Vein of qtz-pyr-cpy +/- asp?, ~1cm thick and planar											
N17-03	L. Bickerton					67.6	72.4	fsp-porphyritic to fine-grained qtz-feldspar leucratic microgranite (MGR?) *lacking fabric											
N17-03	L. Bickerton					72.4	74.3	YTT metamorphic (qtz-biotite gneissic schist)											
N17-03	L. Bickerton					74.3	75.9	fsp-porphyritic to fine-grained qtz-feldspar leucratic microgranite (MGR?) *lacking fabric- this interval has											
N17-03	L. Bickerton					75.9	76.4	YTT metamorphic (qtz-biotite gneissic schist)											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-03	L. Bickerton					76.4	78.46	medium grained buff coloured qtz-feldspar-muscovite(?) leucogranite (LEU)											
N17-03	L. Bickerton					78.46	80.78	YTT metamorphic (qtz-biotite gneissic schist)											
N17-03	L. Bickerton	80.78	85.91	QFP	Lithology: Light grey quartz-feldspar porphyry (QFP), pervasively altered, masking phenocryst content. Locally there is patches where phenocryst content is visible, and they make up approx 15% of the unit (sparsely crowded). Of the phenocrysts, 1-3mm euhedral to subhedral feldspar is the dominant crystal (~80%), with 1-2mm rounded quartz eyes making up ~15% (difficult to determine content due to silicified rock), and sulfides are homogeneously disseminated throughout (~5%, 1-2mm, secondary sulfides?-locally patchy). Groundmass to the phenocrysts is composed of grey intermediate aphyric to very fine-grained intrusive. Alteration: Most of the interval is silicified and sericitized (QSP phyllic?) and pyrite occurs throughout, locally swathes are more sericitized than others, giving porphyry a dull green-grey appearance. Overprinting this alteration is a weak late iron alteration, oxidizing sulfides (pyr-->hem, Cpy-->CuOx). Mineralization: Interval hosts pervasive disseminated sulfide mineralization (pyr>>cpy) and stringer to discontinuous veining of moderate density: 1. qtz-pyr-cpy +/- aspy, CuOx, FeOx (stringer to discontinuous and ladder-style, 0.1-1cm, 30/m, 20tca) 2. qtz-ser-pyr+/- FeOx (stringer, 0.1-0.3cm, 10/m, 15-25tca). Sulfides: 1% py, 0.1%cpy, 0.01%asp, +1%hem				iron	w	phyllic 1	m	1	0.1			asp	0.01
N17-03	L. Bickerton	85.91	96.17	Metamorphic	Lithology: Interval of YTT metamorphic (qtz-biotite gneissic schist) and cross-cutting dykes of medium- to fine-grained/recrystallized and altered leucogranite (LEU?). Dark grey to brown qtz-biotite gneissic schist (foliation at ~60tca) sporadically has qtz-rich discontinuous bands parallel to foliation planes. Dykes are typically thin in the interval (<50cm) and show cryptic fluid-exsolution textures. E.g., 93.1-93.4 appears to be a medium-grained qtz-feldspar leucogranite that grades into a fine to very fine-grained microgranite (MGR)- however, closer inspection shows remnant feldspar "xenocrysts"/"phenocrysts" and an intergrowth of qtz and feldspar that becomes aligned to foliation/contact (similar to line-rock?); elsewhere, e.g. @ 95.46m, this foliated microgranite grades into a qtz-sulfide pocket... Could these dykes +/- the "foliated" microgranites be a recrystallization/late alteration texture of late-phase magma, related to the leucogranite? Alteration: Interval is moderately altered by chlorite +/-magnetite and epidote (somewhat pervasive and related to veins) and locally has pockets of phyllic (qtz-sericite) alteration overprinting this - particularily in proximinty to and within the felsic dykes. Mineralization: Interval has mineralization associatied dominantly with veining: 1. qtz-cpy-mo+/-mrcs w/ thin SiO2 halo (wavy to vuggy, 1cm, 0.5/m - appears to exsolve from and cross-cut the "MGR", 70tca) 2. qtz-pyr-aspy +/- cpy (planar to planar diffuse, 0.5-3cm, 3/m, 30tca) 3. chl-epi+/-mag, qtz (stringer- breaks out into diffuse, 0.1-4cm, 0.5/m, 40tca) 3. qtz-ser+/-pyr (irregular stringer, 0.1-0.3cm, 2/m). Sulfides: 0.5% py, 0.2%cpy, 0.1%asp, 0.01% mo	93.1	93.43	Appears to be a medium-grained qtz-feldspar leucogranite that grades into a fine to very fine-grained microgranite (MGR)- however, closer inspection shows remnant feldspar "xenocrysts"/"phenocrysts" and an intergrowth of qtz and feldspar that becomes aligned to foliation/contact	phyllic 1	w	propylitic	m	0.5	0.2	0		asp	0.1
N17-03	L. Bickerton					95.1	95.57	Dyke similar to the the late-phase qtz-fsp intergrown "MGR" described above; locally SiO2 & sulfide saturates enough to precipitate qtz-mo-cpy-marcacite pocket at edge of dyke (95.46m)											
N17-03	L. Bickerton	96.17	101	QFP	Lithology: Light grey to buff-yellow quartz-feldspar porphyry (QFP), a moderate pervasive alteration of the fsp-rich unit makes groundmass and phenos together appear similar to the altered leucogranite described above. Phenocrysts make up approx 15% of the unit (sparsely crowded). Of the phenocrysts, 1-3mm subhedral feldspar is the dominant crystal (~80%), with 1-2mm rounded quartz eyes making up ~20%, and accessory sulfides are disseminated throughout (1-2mm, mostly pyr). Groundmass to the phenocrysts is composed of buff-yellow to light grey intermediate very-fine grained feldspar>>qtz. Locally, e.g., 97.5-98m, the porphyry is brecciated by fluid precipitating qtz-sericite+/-pyrite; fragmentsare angular and variable in size (5mm to 5cm). Alteration: Interval is pervasively sericitized, locally qtz-ser brecciated, and pyrite occurs in veins + as discontinuous patches throughout (QSP phyllic?). Mineralization: Interval hosts disseminated to patchy sulfide mineralization (pyr, marcasite) and stringer to discontinuous veining of moderate density hosting trace cpy: 1. qtz-pyr-ser (breccia cement to stringer veins, 0.1-4cm, 20/m, 20tca) 2. qtz-pyr-marcasite +/- aspy (stringer to planar, 0.1-0.5cm, 5/m, 15-25tca). Sulfides: 2% py, 0.01%cpy, 0.02%asp	100.5	101	Fault Zone with clay alteration, makes lithological ID difficult.	phyllic 1	m			2	0			asp	0.02
N17-03	L. Bickerton	101	107.9	LEU	Lithology: Interval of medium- to fine-grained(/recrystallized and altered?) leucogranite (LEU?...). Xenoliths of YTT metamorphic (qtz-biotite gneissic schist) occur locally (see sub-ints). Through top of interval (i.e., between 102.5-105.5m), unit appears SiO2 flooded (recrystallized with buff yellow-grey qtz +/-fsp?) with relict sub- to anhedral 2-3mm feldspar crystals sparsely throughout. Locally a medium/coarse network of crystals replaced by qtz is visible but boundaries are diffusely washed by alteration(?). Through bottom of interval, leucogranite is of similar character near contacts but gradationally returns to regular equigranular texture with qtz-fsp+/-mica-sulfide. Alteration: Interval is moderately to strongly replaced/altered by late stage fluids from the leucogranite (silica alteration?) this mostly affects the LEU, giving the interval a microgranitic appearance. Overprinting these rocks is a moderate phyllic (QSP) alteration, veins of pyrite-qtz-sericite occur throughout the interval and locally brecciate the leucogranite. Mineralization: Interval has mineralization associatied with disseminated and patchy pyr+marcasite, but is dominantly associated with veining: 1. qtz-pyr-aspy +/- cpy (planar to planar diffuse, 0.5-3cm, 5/m, 60tca) 2. qtz-ser+/-pyr (stringer to discontinuous, 0.1-0.3cm, 2/m, 20-30tca). Sulfides: 2% py, 0.03%cpy, 0.1%asp	101	102.6	YTT metamorphic rock (xenolith? Between dykes?)	phyllic 1	m	silica	m	2	0			asp	0.1

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-03	L. Bickerton					106	106.4	YTT metamorphic rock (xenolith? Between dykes?)											
N17-03	L. Bickerton	107.9	146	Metamorphic	Lithology: Interval of YTT metamorphic (qtz-biotite gneissic schist) and lesser cross-cutting dykes of medium- to fine-grained/recrystallized and altered leucogranite (LEU?). Dark grey to brown qtz-biotite schist (foliation at ~40tca), and most of this interval has garnet pophyroblasts (garnet schist). This unit sporadically has sericite-muscovite-clay rich bands and qtz-rich discontinuous bands parallel to foliation. Dykes are typically thin (<30cm) medium-grained qtz-feldspar leucogranite, and locally are more aplitic or qtz-recrystallized giving a very fine-grained appearance (MGR? see sub-ints), and have wider (0.5-1m) alteration haloes in the metamorphic host rock with silica flooding of gneissic/schist. Alteration: Interval is moderately altered by chlorite +/- epidote, magnetite (somewhat pervasive and locally related to veins) and thin intervals of phyllic (qtz-sericite) alteration overprinting certain bands in the metamorphic rock and in relation to dykes. Mineralization: Interval has mineralization associatied dominantly with veining throughout the interval and less so with patches and disseminations within the felsic intrusives and altered metamorphic rock: 1. qtz-pyr-marcasite+/- aspy, cpy with SiO2 in halo (planar to brecciating/ladder veins, 0.5-5cm, 4/m, 20tca) 2. chl-qtz-pyr +/- epi (stringer, 0.1-1cm, 1/m, 45tca) 3. qtz-ser+/-pyr (irregular stringer and re-exposing, 0.1-1cm, 10/m). Sulfides: 0.8% py, 0.08%cpy, 0.1%asp	115	117	Dark grey interlayered qtz-biotite-muscovite + garnet pophyroblastic schist (foliation at ~40tca)	phyllic 1	w	propylitic	m	0.8	0.1			asp	0.1
N17-03	L. Bickerton					118.37	118.69	Aplitic dyke(?qtz-recrystallized leucogranite?)											
N17-03	L. Bickerton					126	135	Dark grey interlayered qtz-biotite-muscovite + garnet pophyroblastic schist (foliation at ~40tca)											
N17-03	L. Bickerton					129.44	129.94	Thick lode quartz vein with minor pyrite											
N17-03	L. Bickerton					132.6	132.78	Thin QFP dyke - similar to interval below											
N17-03	L. Bickerton					137.86	137.98	Thin medium-grained qtz-feldspar leucogranite											
N17-03	L. Bickerton					138.23	138.59	Thin medium-grained qtz-feldspar leucogranite											
N17-03	L. Bickerton	146	149.2	LEU	Lithology: Interval of fine- to medium-grained leucogranite (LEU). Unit intrudes YTT metamorphic rock at above contact (60tca) and is intruded by a quartz-feldspar porphyry at below contact (30tca). Leucogranite is pale grey to buff yellow and feldspar crystals are pervasively replaced by sericite-clays. Sub-intervals include sections of YTT host rock (see sub-intervals) that are brecciated (could be altered xenoliths) by phyllic fluids and re-intruded by the LEU. Alteration: Interval has a moderate phyllic (QSP) alteration, veins of pyrite-qtz-sericite occur as stockwork throughout the interval and brecciate the leucogranite+YTT host. Mineralization: Interval has mineralization associatied with disseminated and patchy pyr+marcasite, but is dominantly associated with veining: 1. qtz-pyr-aspy +/- cpy +/- SiO2 halo (planar and locally vuggy/breccia cement, 0.5-3cm, 10/m, 10tca) 2. qtz-ser-pyr w/ ser halo (stringer to brecciating, 0.1-3cm, 20/m, 20-30tca). Sulfides: 3% py, 0.1%cpy, 0.3%asp	146.3	146.7	YTT/LEU brecciated by silica-sericite-pyrite	phyllic 1	s			3	0.1			asp	0.3
N17-03	L. Bickerton					147.17	147.87	asp-bearing vein parallel tca in YTT (xenolith?)											
N17-03	L. Bickerton					148.65	149.2	YTT metamorphic rock (xenolith? Between dykes?)											
N17-03	L. Bickerton	149.2	163.2	QFP	Lithology: Light to dark grey quartz-feldspar porphyry (QFP), Phenocrysts make up approx 20-25% of the unit (moderately crowded). Of the phenocrysts, 1mm-2cm euhedral to subhedral feldspar is the dominant crystal (~70%), with 2-10mm subrounded quartz eyes making up ~30%, and accessory sulfides are disseminated throughout (1-2mm, mostly pyr). Groundmass to the phenocrysts is composed of light to dark grey intermediate very-fine grained to aphyric intrusive. Fsp phenos typically replaced by sericite +/- sulfides. Locally, alteration overprints most primary textures so rock looks pervasively dark grey fsp-ser with disseminated sulfide (pyr) Alteration: Interval is pervasively moderately sericitized + qtz and pyrite related to veining and mineral replacement. Some fractures and halos have stronger sericite-clay alteration, e.g. 156m, but predominantly the unit is homogeneously altered. Mineralization: Interval hosts disseminated to patchy sulfide mineralization (pyr>cpy) and veining of moderate density: 1. qtz-cpy-aspy +/- bor (CuOx?) (wavy and locally vuggy, 0.5-2cm, 0.5/m, 10tca) 1. qtz-pyr+/-cpy w/ SiO2 halo (planar, 0.5-1cm, 15/m, 40tca) 2. qtz-ser-pyr w/ ser halo (stringer to brecciating, 0.1-3cm, 5/m, 20-30tca). Sulfides: 2% py, 0.3%cpy, 0.01% bor, 0.08%asp	155.64	156.12	cpy, brn, asp veining	phyllic 1	m			2	0.3			asp	0.08

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-03	L. Bickerton	163.2	177.1	Metamorphic	Lithology: Dark grey to green-yellow qtz-biotite schist (YTT metamorphic host rock, foliation at ~70-85tca). Interval is heavily faulted and contains sandy clay-rich veins/fractures which crosscut and expose foliation planes throughout interval. Alteration: Pervasive weak to moderate chlorite with epidote-pyrite +/- albite in the gneiss is indicative of propylitic alteration, and this is overprinted by sericite-clay related to fault zone. Mineralization: Interval has mineralization dominantly associatied with veining: 1. qtz-pyr +/- cpy with minor SiO2 halo (planar, 0.1-0.5cm, 1/m, 65tca) 2. qtz-ser+/-pyr (stringer to brecciating and exposing selvages to previous veins, 0.1-2cm, 10/m). Sulfides: 0.5% py, 0.01%cpy				phyllic	1 w	propylitic	m	0.5	0					
N17-03	L. Bickerton	177.1	189	GRA	Lithology: Interval of light grey to off white medium-grained biotite-granite (GRA). Unit intrudes YTT metamorphic rock at above contact (20tca) where there is a concentration of pyrrhotite, cpy, pyr in the granite (Redox reaction at contact?) and bottom contact intrudes at approx. 20tca. Compositionally, granite appears similar to the leucogranite (less altered equivalent?) with increased biotite content. Quartz is interstitial and makes up ~30% of rock, feldspar has a roughly equal split between euhedral plagioclase and alkali feldspar and makes up 65-70% of the rock. Biotite (partially replaced by chlorite, sulfides throughout) is euhedral and makes up approx. 5% of rock. Sub-intervals include xenoliths of YTT host rock (see sub-intervals) that are rounded and range from 5cm to 25cm. Alteration: Interval has a weak propylitic alteration, chlorite replaces some mafic sites along with sulfides and albite may be present as alteration in some mafic sites. A weak phyllic overprint, typically associated with thin stringer veins is also present. Mineralization: Interval has disseminated and mafic site replacement mineralization (associatied with propylitic-phyllic events? pyr>cpy>mo) as well as moderate density of veining, which results in patchy sulfide at vein intersects: 1. qtz-pyr-po +/- cpy, mo, aspy w/ thin SiO2 halo (planar, 0.5-2cm, 5/m to locally 30/m, 70tca) 2. pyr-qtz-chl +/- epi, mag w/ epi-alb in halo, fRep (planar to stringer, 0.1-0.5cm, 8/m, 40tca) 2. qtz-ser-pyr w/ ser halo (stringer, 0.1-0.2cm, 4/m, 15tca). Sulfides: 2% py, 0.2% cpy, 0.1% po, 0.05% mo, 0.02% asp	178.5	178.9	YTT metamorphic rock (xenolith)	phyllic	1 w	propylitic	w	2	0.2	0.1	0.1	asp	0.02
N17-03	L. Bickerton					179.43	179.78	YTT metamorphic rock (xenolith)											
N17-03	L. Bickerton					181	181.4	YTT metamorphic rock (xenolith)											
N17-03	L. Bickerton					181.65	181.76	YTT metamorphic rock (xenolith)											
N17-03	L. Bickerton					188	189	brass from drill staining - attempted to brush off											
N17-03	L. Bickerton	189	194.4	HBX	Lithology: Closer to total replacement of the dark grey qtz-biotite schist to gneiss (YTT metamorphic host rock, foliation at ~15-20tca). Interval is heavily altered and replaced by mag, chl, sulfides. Foliation is still visible, but original composition of the YTT metamorphic rock is difficult to determine. Similar features to mag HBX described previously, and thus coded the same way. Locally, the rock is brecciated and cemented by biiotite-quartz-mag-sulfides, and the rock itself is pervasively altered.. Alteration: Pervasive and compositionally destructive replacement of metamorphic rock with hydrothermal mineralization (magnetite, sulfides, chlorite, silica, +/- biotite) Could be classified as an intense propylitic breccia?. Mineralization: Interval has mineralization dominantly associatied with veining parallel to foliation as well as replacement of the host rock: 1. qtz-mag-chl-pyr +/- cpy (discontinuous irregular/exposing foliation, 0.1-0.5cm, 30/m, 20tca) Sulfides: 3% py, 0.2%cpy, 20% mag						silica	i	3	0.2			mgn	20
N17-03	L. Bickerton	194.4	201	GRA	Lithology:Light grey to off white medium-grained biotite-granite (GRA), similar to unit above previous interval. Qtz (interstitial, ~30% of rock), feldspar (roughly equal split between euhedral plagioclase and alkali feldspar, 65-70%). Biotite (partially replaced by chlorite, sulfides throughout, euhedral, 5%). Interval has slightly more epidote alteration. Sub-intervals include xenoliths of YTT host rock (see sub-intervals) that are rounded and range from 5cm to 25cm, these increase in abundance towards bottom contact. Alteration: Interval has a weak propylitic alteration, chlorite replaces some mafic sites along with sulfides and albite may be present as alteration in some mafic sites. A weak phyllic overprint, typically associated with thin stringer veins is also present. Mineralization: Interval has disseminated and mafic site replacement mineralization (associatied with propylitic-phyllic events? pyr>cpy>mo) as well as moderate density of veining, which results in patchy sulfide at vein intersects: 1. qtz-pyr-po +/- cpy, mo, aspy w/ thin SiO2 halo (planar, 0.5-2cm, 5/m to locally 30/m, 70tca) 2. pyr-qtz-chl +/- epi, mag w/ epi-alb in halo, fRep (planar to stringer, 0.1-0.5cm, 8/m, 40tca) 2. qtz-ser-pyr w/ ser halo (stringer, 0.1-0.2cm, 4/m, 15tca). Sulfides: 2% py, 0.2% cpy, 0.1% po, 0.05% mo, 0.02% asp	200.15	201	xenolith rich interval (YTTclasts)	phyllic	1 w	propylitic	m	2	0.2	0.1	0.1	asp	0.02

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-03	L. Bickerton	201	248.5	Metamorphic	Lithology: Interval of YTT metamorphic (qtz-biotite gneissic schist) and lesser cross-cutting dykes of medium- to fine-grained granite dykes. Dark grey to brown qtz-biotite schist to biotite-garnet schist (foliation at ~10-20tca) sporadically has qtz-rich discontinuous bands parallel to foliation as well as, locally, intervals of increased quartz flooding. Dykes are typically thin (<30cm), ranging from light grey medium-grained biotite-granodiorite (e.g., 235.2m) to fine- to medium-grained granite to leucogranite (e.g., 219.25m, 243.7m); this later phase is deformed with the YTT metamorphics and may also be related to the recrystallized leucogranite/qtz-feldspar intergrown microgranitic dykes (micropegmatites?) that also occur in this interval (e.g., 231.2m, 241.1m, 242.55m). Alteration: Interval is moderately altered by chlorite, magnetite +/- albite, pyrite, epidote, (somewhat pervasive favoring less silicified gneissic bands) and thin intervals of phyllic (qtz-sericite) alteration related to QSP veining. Mineralization: Interval has mineralization associatied dominantly with veining throughout the interval and less so with patchy disseminations within the felsic intrusives and metamorphic rock: 1. chl-pyr+/- mag, epi, cpy w/ chl halo (irregular to disconintuous, 0.1-0.3cm, 15-20tca, 4/m) 2?. qtz-pyr +/- w/ SiO2 halo (planar, 0.5-3cm, 1/m, 30-40tca) 2?. qtz-pyr-ser w/ ser halo (stringer, 0.1-0.3cm, 1/m, 60tca) Sulfides: 0.5% py, 0.01%cpy	211.3	211.6	8 cm qtz vein parallel to foliation	phyllic	1	w	propylitic	m	0.5	0				
N17-03	L. Bickerton					219.2	219.28	granite dyke (GRA)											
N17-03	L. Bickerton					227.86	228.1	qtz vein and minor HBX											
N17-03	L. Bickerton					231	231.3	microgranite dyke (MGR)											
N17-03	L. Bickerton					233.7	234.3	altered YTT (Silicified)											
N17-03	L. Bickerton					235.1	235.3	Dyke of granite/granodiorite(?GRA)											
N17-03	L. Bickerton					235.3	237	altered YTT (Silicified)											
N17-03	L. Bickerton					241	241.3	dyke of microgranite (MGR)											
N17-03	L. Bickerton					243.58	243.82	granite/microgranite dyke, deformed: boudinaged off-shooting dyklets (from main dyke) form along foliation planes (GRA)											
N17-03	L. Bickerton	248.5	251.3	QFP	Lithology: Light to dark grey moderately crowded quartz-feldspar porphyry (QFP), a moderate pervasive alteration of the fsp-rich unit makes phenos appear as subtle features in the grey somewhat silicified groundmass. Phenocrysts make up approx 35% of the unit (crowded). Of the phenocrysts, 1-3mm euhedral to subhedral feldspar dominant (~80%), with 1-2mm rounded to sub-rounded quartz eyes making up ~20%, and accessory sulfides being disseminated throughout (1-2mm, pyr/mcs>cpy). Groundmass to the phenocrysts is composed of light grey intermediate very-fine grained feldspar>>qtz, pervasively weakly silicified?. Entire interval is veined to moderate density- mostly by stockwork sulfide stringers. Alteration: Interval is pervasively weakly silicified, feldspars are sericitized, and pyrite occurs in veins as well as being disseminated throughout (+mafic site replacement?). Mineralization: Interval hosts disseminated to patchy sulfide mineralization (pyr, marcasite, +/-cpy) and stockwork sulfide stringers (pyr, mcs, cpy) that overprint a qtz-sulfide veinset: 1. qtz-pyr-cpy w/SiO2 halo (planar to wavy, 0.1-0.5cm, 3/m, 70tca) 2. qtz-pyr/marcasite-cpy (stringer to planar, 0.1-0.5cm, 30/m, 15-55tca). Sulfides: 2% py, 0.5%cpy				phyllic	1	w			2	0.5				
N17-03	L. Bickerton	251.3	260.3	Metamorphic	Lithology: Interval of YTT metamorphic (qtz-biotite gneissic schist). Dark grey to brown qtz-biotite schist to biotite-garnet schist (foliation at ~10-20tca) sporadically has qtz-rich discontinuous bands parallel to foliation. The YTT metamorphic unit also locally has bands of pre-kinematic granodiorite (e.g., 252.6-253.96m) that conform to foliation planes and likely pre-date the intrusives related to mineralization at Nucleus. Alteration: Interval is moderately altered by chlorite +/- albite, pyrite, epidote, magnetite (somewhat pervasive favoring less silicified gneissic bands) and thin intervals of phyllic (qtz-sericite) alteration related to QSP veining. Mineralization: Interval has mineralization associatied dominantly with veining throughout the interval and less so with patchy disseminations within the felsic intrusives and metamorphic rock: 1. chl-pyr+/- mag, epi, cpy w/ chl halo (irregular to disconintuous, 0.1-0.3cm, 15-20tca, 4/m) 2?. qtz-pyr +/- w/ SiO2 halo (planar, 0.5-3cm, 1/m, 30-40tca) 2?. qtz-pyr-ser w/ ser halo (stringer, 0.1-0.3cm, 1/m, 60tca) Sulfides: 0.5% py, 0.01%cpy	252.6	253.96	pre-kinematic granodiorite (YTT)	phyllic	1	w	propylitic	m	0.5	0				
N17-04	N. Mostaghimi	0	21	OVB	Overburden.														

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi			GRA		10.67	12	Leucogranite intrusion											
N17-04	N. Mostaghimi			GRA		19.81	23.22	Leucogranite intrusion											
N17-04	N. Mostaghimi	21	37	SCH	Gneissic schist with several >1 metre wide intercepts of leucogranite dykes. The rock is strongly weathered and altered. Strong late carbonate overprint in the form of veinlets and pervasive cb is common due to the high number of fractures and veins. Thin, wispy py-stringers are the most common veinlet. Py-stringers occur predominantly as stockwork and are oxidized to hematite. Qtz+/-py+/-cpy veins with straight vein margins also occur but are not common. The mineralization however is not completely oxidized as unweathered py within qtz-veins may occur. Mineralization: hem(after py) and py: 6-8%; cpy: 0.3%; po: 0.5%; mo: tr. No cpy is observed, however the presence of mal suggests that cpy likely occurred prior to intense weathering.				Carbonatem		Silica	m	7	0.3	0.5			
N17-04	N. Mostaghimi					23.2	25.91	Tectonic foliation in gneissic schist is oriented at 80 deg. TCA. Foliation is defined by bands of bt/mafic minerals and qtz lenses and bands											
N17-04	N. Mostaghimi					25.91	26.48	Leucogranite dyke											
N17-04	N. Mostaghimi					27.12	27.92	Leucogranite dyke; 15 deg. TCA											
N17-04	N. Mostaghimi					21	27.92	High density of stokwork veinlets that are hematized											
N17-04	N. Mostaghimi					28.93	28.92	Fault with gouge; 75 deg. TCA											
N17-04	N. Mostaghimi					28.96	29.08	Fault with gouge; 75 deg. TCA											
N17-04	N. Mostaghimi					29.16	29.17	Fault with gouge material											
N17-04	N. Mostaghimi					29.17	32.61	Tectonic foliation in gneissic schist is oriented at 80 deg. TCA. Foliation is defined by bands of bt/mafic minerals and qtz lenses and bands											
N17-04	N. Mostaghimi					32.61	34.89	Leucogranite dyke; upper contact at 70 deg. TCA											
N17-04	N. Mostaghimi					34.28	34.33	Fault with gouge; 60 deg. TCA											
N17-04	N. Mostaghimi					35.05	37	Intense stockwork veinlets that cross cut the gneissic schist and contain hem after sulphides (>10 per 10 cm). Hem may contain a dendritic pattern.											
N17-04	N. Mostaghimi	37	50.89	GRA	Strong to intense cb and clay alteration of leucogranite dykes. Gneissic schist xenoliths no greater in size than 30 cm also occur within the dyke. Several faults cut the dyke with cb-infill and gouge material. Several small breccia zones occur within this zone that comprise of smaller leucogranite dykes brecciating gneissic schist fragments. Py stringers are common and in stockwork formation and are typically oxidized to lim +/- hem.				Carbonates		Phyllic 1	w	3.5	0.2	0.3			
N17-04	N. Mostaghimi					37	38	Strong cb alteration overprint and sulph stringers that cross cut.											
N17-04	N. Mostaghimi					37.86	37.87	Fault cuts the rock at 70 deg. TCA											
N17-04	N. Mostaghimi			SCH		40	40.2	Gneissic schist xenolith											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi					40.84	41.15	Gouge material within a fault; 60 deg. TCA											
N17-04	N. Mostaghimi			SCH		42.67	43.9	Breccia zone; lower contact at 60 deg. TCA; upper contact at 60 deg. TCA											
N17-04	N. Mostaghimi					43.05	43.06	Fault at 30 deg. TCA											
N17-04	N. Mostaghimi			SCH		47.35	50.89	Gneissic schist; upper contact at 75 deg. TCA; strong carbonate penetrative alteration											
N17-04	N. Mostaghimi					47.35	50.89	Tectonic foliation within gneissic schist is 85 deg. TCA											
N17-04	N. Mostaghimi	50.89	59.87	GRA	Strong to intense cb and clay alteration of a leucogranite dyke cross cuts the gneissic schist.				Carbonates		Phyllic	1 s	4	0.2	0.3				
N17-04	N. Mostaghimi					57.91	58.68	Gneissic schist with strong concentration of py mineralization and carbonate alteration.											
N17-04	N. Mostaghimi	59.87	83.36	SCH	Intercalated unit with brecciated and strongly altered gneissic schist with fragments of microgranite. Leucogranite and microgranite intrusions are common. Leucogranite dykelets occur with the middle of the dykelet containing a more qtz-rich and pegmatitic composition with a gradational boundary from the margins. A porphyritic microgranite interval is strongly deformed with feldspar-augens and a mylonitic texture. Clay and sericite alteration is pervasive and effects most of the rocks in this interval - especially brecciated zones. Silica alteration is common and may occur as veinlets or pervasive. All units contain high densities of py-stringers stockwork that cut the rock. Sheeted qtz-py+/-cpy veinlets are not common but may occur - typically within the leucogranite. White cb-veinlets are common and cut the rock at 30, 0, and 90 deg. TCA. Mineralization predominantly comprises py and mar, however cpy, mo, and po infrequently occur as well. Py+mar are associated with dark grey dendritic formations in weathered and altered zones. Mineralization: py: 5%; cpy: 0.25%; po: 0.4%; mo: 0.001%				Carbonatew		Phyllic	1 m	5	0.3	0.4	0			
N17-04	N. Mostaghimi			MGR		60.28	60.71	Foliated and weakly porphyritic leucocratic microgranite dyke											
N17-04	N. Mostaghimi			MGR		60.83	61.67	Strongly foliated leucocratic porphyritic microgranite dyke											
N17-04	N. Mostaghimi					63.37	63.38	Fracture cb-infill at 30 deg. TCA											
N17-04	N. Mostaghimi			GRA		64.01	65.37	Strongly altered (clay and sericite +/- cb) leucogranite											
N17-04	N. Mostaghimi			MGR		73.21	73.48	Leucocratic migrogranite											
N17-04	N. Mostaghimi					74.98	77.57	High density of stockwork cb-veinlets											
N17-04	N. Mostaghimi					74.66	74.67	Cpy associated with qtz-vein											
N17-04	N. Mostaghimi					77.57	77.58	Fracture cb-infill at 30 deg. TCA											
N17-04	N. Mostaghimi			GRA		81.8	82.27	Leucgranite											
N17-04	N. Mostaghimi					81.8	83.51	Grey cb-veins are cross cut by light-grey cb-veins											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi	83.36	121.5	SCH	Gneissic schist is moderately to strongly altered by different alteration assemblages in intermittent zones throughout this interval. This interval also contains numerous strongly to poorly porphyritic leucocratic microgranite and leucogranite intrusions. The leucogranite appears to grade into a more felsic (feldspar and qtz-rich) composition within dykelets. The alteration of all lithologic units comprises chl-ep-py pervasive and vein alteration of the gneissic schist that is typically overprinted by wispy, 1-mm wide veinlets and qtz-mt-py-+/-bt veinlets with kspar haloes (potassic alteration). Py stringers are common throughout the entire interval and cross cut all units. Phyllic alteration is common throughout the interval - including a section of QSP alteration with qtz-py veins with ser haloes that cut the rock at 90 deg. TCA. Pervasive carbonate alteration occurs in small intermittent zones of sericite rich and and fractured zones. Cpy mineralization is not common but occurs with py. Po mineralization occurs with py but is not common. Mineralization: py: 7%; cpy: 0.3%; po: 0.3%; mo: 0.002%				Phyllic	1 m	Propylitic	m	7	0.3	0.3	0			
N17-04	N. Mostaghimi					83.36	83.51	Fault at 30-40 deg. TCA with open-space qtz- and cb-vein filling											
N17-04	N. Mostaghimi			GRA		85	85.62	Leucogranite contains a high density of py-stringers											
N17-04	N. Mostaghimi			GRA		86.64	87.21	Leucogranite contains a high density of py-stringers											
N17-04	N. Mostaghimi					87.67	89.81	Propylitic alteration; pervasive chl after bt in schist. Ep is not as common but occurs pervasively. Chl-ep+/-mt veins also occur (<1/10 cm)			Propylitic	w							
N17-04	N. Mostaghimi			GRA		89.81	90.86	Leucogranite											
N17-04	N. Mostaghimi					90.86	93.2	Strongly foliated porphyritic leucocratic microgranite with feldspar-augens											
N17-04	N. Mostaghimi					93.84	98.14	QSP alteration and veins			Phyllic	1 w							
N17-04	N. Mostaghimi			GRA		93.76	96	Leucogranite is altered variably by QSP											
N17-04	N. Mostaghimi					95.36	96	Strong QSP			Phyllic	1 s							
N17-04	N. Mostaghimi					96	97	Strong carbonate and sericite alteration	Carbonates		Phyllic	1 s							
N17-04	N. Mostaghimi					98.5	98.7	Strong carbonate and sericite alteration	Carbonates		Phyllic	1 s							
N17-04	N. Mostaghimi					98.7	121.49	Moderate to strong propylitic alteration			Propylitic	m							
N17-04	N. Mostaghimi					100.38	100.39	Qtz-bt+-mt vein is 1 cm wide at 75 deg. TCA											
N17-04	N. Mostaghimi					99.5	100	Strong carbonate and sericite alteration	Carbonates		Phyllic	1 s							
N17-04	N. Mostaghimi					100.5	102.11	Strong carbonate and sericite alteration	Carbonates		Phyllic	1 s							
N17-04	N. Mostaghimi					102.25	105	Strong carbonate and sericite alteration	Carbonates		Phyllic	1 s							
N17-04	N. Mostaghimi					106	115.54	Strong silica pervasive alteration			Silica	s							
N17-04	N. Mostaghimi					115.34	116.32	Strong carbonate and sericite alteration	Carbonates		Phyllic	1 s							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi					119	121.49	Strong carbonate and sericite alteration	Carbonates		Phyllic	s							
N17-04	N. Mostaghimi					121.49	121.53	Fault with cb-infill and strong ser and carbonate alteration; 60 deg. TCA											
N17-04	N. Mostaghimi					121.53	122.65	Breccia with gneissic schist clasts and cb-infil											
N17-04	N. Mostaghimi			MGR		123.44	124.44	Strongly ser and clay, strong carbonate alteration - pervasive of leucocratic microgranite											
N17-04	N. Mostaghimi	124.4	134.6	QFP	Qtz-feldspar porphyry dyke with disseminated sulphides. The QFP dyke contains 30-35% white feldspar phenocrysts that are typically 1-2 mm in size with euhedral lath-shapes. Rarely a larger 4-5 mm size phenocryst occurs. The groundmass comprises of vfg clear qtz where the individual crystals are not identiable, <1 mm white feldspar grains, and <1 mm sized sulphides likely after mafics. No fresh mafic minerals are observed. Moderate silica alteration occurs as veins with sulphides and possibly pervasively as well however it is difficult to distinguish with the qtz-groundmass. Phyllic alteration occurs as QSP veins and likely ser after feldspars in the porphyry. Late carbonate alteration infills veins and veinlets and weak to trace pervasive carbonate alteration. Sulphides comprise of predominantly py with variable concentrations of cpy-mo-po. Cpy concentrations associated with veins and disseminated po concentrations elevate below 126.82 m. Veins within this interval comprise qtz+/-cpy+/-py+/-mo with cb-infill veinlets <1 mm wide with sharp margins that cut the rock at 30 and 90 deg. TCA. Qtz+/-cpy+/-po+/-py veins <1 mm wide with ser haloes 2-3 mm wide and cb-infill cut the rock from 70-90 deg. TCA. Asp also occurs within qtz-py veins with cb-open space filling.					Phyllic	m	Silica	m	4	0.8	3	0		
N17-04	N. Mostaghimi	134.6	196	SCH	Gneissic schist with various intrusive units. The gneissic schist varies in composition from bt-rich to dark coloured chl-rich bands with qtz-bands to zones of strongly deformed leucocratic microgranite parallel to the tectonic fabric. The alteration assemblages vary throughout the interval as well as their intensities. Predominantly there is a pervasive silica and sericitic alteration that varies from moderate to strong intensities broken up by zones of weak to moderate intensities. The sericite alteration varies in colour from beige to light green and white. Potassic alteration minerals also occur but are uncommon, including mt-qtz-bt veins and rare kspar alteration selvages. A late carbonate alteration typically occurs at fractures and permeates the adjacent rock and fills in various veins. Qtz+/-cpy+/-po+/-py+/-asp+/-mo veins +/- ser-halos that range in size from 2 - 20 mm on either side occur throughout the interval. These veins range in thickness from 1 to 3-4 mm wide and cut the rock at 30 and 60-75 deg. TCA; asp only occurs where there is late cb-infill. Thin, <1 mm wide py+/-sulph stringers occur as stockwork and may contain a preferred orientation of 70 deg. TCA. Qtz+/-cpy+/-po+/-py+/-asp+/-mo veins +/- ser-halos densities range from 1-2 per 10 cm to 1 per 30 cm. Py stringer vein densities are much higher as they typically occur as stockwork (4-10 per 10 cm). No large structures occur within this interval.					Phyllic	m	Silica	m	7	0.8	2.5	0	asp	0.3
N17-04	N. Mostaghimi			QFP		137.31	138.15	QFP dyke is strongly, pervasively silicified; moderately sericitized.	Phyllic	m	Silica	s							
N17-04	N. Mostaghimi					137.37	140.46	Strong pervasive carbonate alteration			Carbonate	s							
N17-04	N. Mostaghimi					144.05	150.68	Moderate to weak sericite and silica alteration	Phyllic	m	Silica	w							
N17-04	N. Mostaghimi					164.17	164.39	Moderate pervasive carbonate alteration associated with a vein			Carbonate	m							
N17-04	N. Mostaghimi					165.4	167.95	Moderate to strong phyllic alteration overprints silica and bt alteration (moderate-strong)	Phyllic	m	Potassic	m							
N17-04	N. Mostaghimi					170	178	Weak propylitic alteration defined by chl-ep wispy veins			Propylitic	w							
N17-04	N. Mostaghimi					170.86	170.87	Qtz-vein with bt-envelope											
N17-04	N. Mostaghimi					174	196	Predominantly strong sericite and silica alteration	Phyllic	s	Silica	s							
N17-04	N. Mostaghimi			MGR		166.82	187.1	Strongly foliated leucocratic migrogranite											
N17-04	N. Mostaghimi					178.4	179.34	Moderate carbonate alteration			Carbonate	m							
N17-04	N. Mostaghimi					181.85	182.5	Moderate carbonate alteration			Carbonate	m							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi					182.5	186	Weak-moderate silica and phyllic alteration	Phyllic 1	w	Silica	w							
N17-04	N. Mostaghimi					191.79	191.8	Fracture cb-infill at 30 deg. TCA											
N17-04	N. Mostaghimi					191.8	195	Strong phyllic alteration with moderate carobonate alteration overprint.	Carbonatem		Phyllic 1	s							
N17-04	N. Mostaghimi			GRA		192.3	194.18	Leucgranite											
N17-04	N. Mostaghimi					195	196	Strong silica pervasive alteration; weak to moderate phyllic overprint	Phyllic 1	w	Silica	s							
N17-04	N. Mostaghimi	196	215.9	GNE	Black and dark greenish-black coloured schistose gneiss contains a high concentration of qtz-augens - likely a pre-tectonic dioritic intrusion is moderately to strongly potassically altered. Phyllic and cabonate alteration are typically associated with veins and fractures. Chloritic alteration of bt in the gneiss is variable in intensity up to moderate in intensity. White, bull qtz-veins +/-cpy+/-mt+/-po+/-mo+/-po veins with sharp margins are anywhere from 5 mm to 4 cm wide. These veins cut the rock at 30-40 deg. TCA and occur 1 per metre. Clear qtz with py+/-cpy with green ser halos are only observed cross cutting the leucogranite at 70 deg. TCA.					Phyllic 1	w	Potassic	m	1.5	0.7	0.4	0.1		
N17-04	N. Mostaghimi					199.83	200.39	Moderate pervasive carbonate alteration associated with a fracture infill	Carbonatem										
N17-04	N. Mostaghimi					199.96	199.97	Fracture cb- and gouge-infill											
N17-04	N. Mostaghimi					202.69	202.73	Wide, bull qtz-vein with blebs of cpy+/-po-py+/-mo with sharp margins											
N17-04	N. Mostaghimi			GRA		202.91	203.04	Leucogranite at 70 deg. TCA											
N17-04	N. Mostaghimi			GRA		204.31	205.37	Leucogranite at 70 deg. TCA											
N17-04	N. Mostaghimi			MGR		206.9	207.06	Leucocratic migrogranite											
N17-04	N. Mostaghimi					209.11	209.12	Qtz-asp-cpy-py vein is 2 mm wide with sharp margins and >65% asp; cuts the rock at 25 deg. TCA											
N17-04	N. Mostaghimi					214.25	214.26	0-10 deg. TCA cb-infill fracture											
N17-04	N. Mostaghimi					215.5	215.51	0-10 deg. TCA cb-infill fracture											
N17-04	N. Mostaghimi			BRX	Intercalated unit with multiple intrusive units including the leucocratic microgranite, leucogranite and two QFP dykes. Clear white qtz-veins +/-cpy+/-mt+/-po+/-bladed mo+/-po veins+/-kspar halos with sharp margins are 1- 3 mm wide and cut the rock at 30 deg. TCA. These veins occur 1-2 per 10 cm. Qtz-cpy-py-mar+/-cb-infill typically contain sharp margins and are 1-2 mm in width at 90 deg. TCA. Translucent qtz+/-cpy+/-py+/-po+/-mo+/- cross cut the qtz-veins at 30 deg. TCA.					Phyllic 1	s	Silica	s	3	0.9	0.4	0.3	asp	0.2
N17-04	N. Mostaghimi					216.33	216.34	Fault with open-space cb- and qtz-vein filling. Asp and py occur. Fault is oriented at 15 deg. TCA and also contains gouge.											
N17-04	N. Mostaghimi			MGR		217.03	238.1	Leucocratic migrogranite with high density of py-stringers that are mostly oriented at 70-80 deg. TCA and 30 deg. TCA											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi			SCH		238.1	219.29	Gneissic schist with a tectonic foliation oriented at 15-20 deg. TCA											
N17-04	N. Mostaghimi					217.03	225	Strong to intense phyllic alteration is pervasive			Phyllic 1	i							
N17-04	N. Mostaghimi					219.29	219.9	Fault with qtz- and cb-open space filling and cataclasite											
N17-04	N. Mostaghimi					219.49	219.5	High concentrations of cpy-py-asp associated with qtz-veins within the fault					3	3				asp	0.3
N17-04	N. Mostaghimi					219.9	221.1	Gneissic schist with a tectonic foliation oriented at 15-20 deg. TCA											
N17-04	N. Mostaghimi			GRA		221.1	222.8	Leucogranite											
N17-04	N. Mostaghimi					222.8	224.03	Gneissic schist with a tectonic foliation oriented at 15-20 deg. TCA											
N17-04	N. Mostaghimi			GRA		224.03	224.41	Leucogranite; 30 deg. TCA											
N17-04	N. Mostaghimi					224.41	225.84	Gneissic schist with a tectonic foliation oriented at 15-20 deg. TCA											
N17-04	N. Mostaghimi					224.41	225.84	Strong silica alteration			Silica	s							
N17-04	N. Mostaghimi			GRA		225.84	226.84	Leucogranite; 70 deg. TCA											
N17-04	N. Mostaghimi					226.84	229.62	Gneissic schist with a tectonic foliation oriented at 15-20 deg. TCA											
N17-04	N. Mostaghimi					226.84	229.62	Weak-moderate silica and phyllic alteration	Phyllic 1	m	Silica	w							
N17-04	N. Mostaghimi					226.06	226.84	Brecciated gneissic schist xenoliths within the leucogranite											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi			QFP		229.62	234.83	QFP dyke with highly variable phenocryst sizes from 1 mm to 1.3 cm large. Phenocrysts are typically euhedral and the largest feldspar grains are larger than the largest qtz-phenocrysts (5-6 mm wide). Qtz-phenocrysts are rounded to hexagonal and comprise clear coloured qtz. Feldspar grains are lath-shaped and white to cream coloured. The groundmass copmrises vfg specs of sulphides (possibly after mafic minerals), and <1 mm qtz and feldspar grains. Higher concentrations of sulphides are associated with veins and veinlets compared to disseminated sulphides. Cpy occurs both in veins and as dissemination. 20-25% feldspar phenocrysts; 5-10% qtz-phenocrysts.											
N17-04	N. Mostaghimi			MGR		234.83	235.15	Strongly foliated leucocratic migrogranite											
N17-04	N. Mostaghimi			SCH		235.15	240.48	Gneissic schist											
N17-04	N. Mostaghimi					235.15	240.48	Tectonic foliation associated with gneissic schist is oriented at 25 deg. TCA											
N17-04	N. Mostaghimi			MGR		240.48	240.5	Leucocratic microgranite											
N17-04	N. Mostaghimi					236.54	239.27	Strong to intense silicic alteration			Silica	i							
N17-04	N. Mostaghimi					241.92	241.93	Qtz-cpy-py vein with cb-infill											
N17-04	N. Mostaghimi					241.96	241.97	Asp-py-qtz veinlet at 60 deg. TCA											
N17-04	N. Mostaghimi			BRX		245	247.05	Brecciated zone associated with the intrusion of a leucogranite into the gneissic schist											
N17-04	N. Mostaghimi					248	248.01	Qtz-py-asp vein at 60 deg. TCA with cb-infill											
N17-04	N. Mostaghimi			MGR		247.05	250.45	Weakly porphyritic and strongly foliated leucocratic microgranite											
N17-04	N. Mostaghimi			MGR		250.55	251.36	Porphyritic and foliated leucocratic microgranite											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-04	N. Mostaghimi			GRA		251.36	251.91	Leucogranite is strongly altered to clay and sericite			Phyllic 1	s							
N17-04	N. Mostaghimi			SCH		251.91	252.9	Gneissic schist with a tectonic foliation oriented at 20-30 deg. TCA											
N17-04	N. Mostaghimi			QFP		254.51	259.4	Strongly silicified and sericitized QFP dyke is partially texturally destructive. The QFP contains a moderate to strong foliation associated with irregularly shaped zones of strong to intense silica and sericite alteration that bleach the colour of the rock. There is also an increase in disseminated sulphides (10-15%) that may be either replacement or primary minerals associated within these localized zones. The strong foliation is defined by an alignment of sulphides and elongate qtz grains. The less altered and undeformed zones of the QFP comprise 15-25% feldspar and qtz phenocrysts that are euhedral and randomly oriented. The phenocrysts in this QFP do not exceed 3 mm in size. Lower contact of dyke is at 30 deg. TCA - parallel to clear qtz-veins with cpy+/-py+/-po+/-mo+/-kspar halos.	Phyllic 1	s	Silica	s							
N17-04	N. Mostaghimi					254.51	254.79	Completely bleached (intense silica and sericite alteration)	Phyllic 1	i	Silica	i							
N17-04	N. Mostaghimi					259.18	259.19	Qtz-cpy-asp vein at 30 deg. TCA is cross cut by another qtz-vein at 90 deg. TCA											
N17-04	N. Mostaghimi			GRA		259.4	259.68	Leucogranite											
N17-04	N. Mostaghimi			SCH		259.68	260.6	Gneissic schist is cross cut several times by dykelets of leucogranite at 30-50 deg. TCA. The tectonic fabric within the SCH is 0-40 deg. TCA										
N17-05	N. Mostaghimi	0	3.35	OVB															

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-05	N. Mostaghimi	3.35	46.4	Metamorphic	Lithology: Interval of moderately oxidized, dark grey to green qtz-biotite-muscovite schist to gneiss (YTT Metamorphic). Foliation is steep to core axis (~65-70tca) and finely banded (<2-3mm). Locally there is thin dykes (<30cm) of leucocratic intrusive that appear to be either recrystallized/silicified equivalents to granitic phases described in other holes (e.g., 25.3-25.6m), or the "foliated" fine- to very fine-grained qtz-fsp intergrown microgranite phase (e.g., 31.4-31.6, 34.5-34.7m). Intervals within the metamorphic sequence appear relatively silicified, destroying most primary textures, leaving the intervals to be dull grey-beige microcrystalline qtz+/-ser with subtle foliation. The metamorphic unit also hosts local zones with feldspar augen (increasing metamorphic grade? change in protolith?) that display sigma-clast shear sense indicators. Alteration: The alteration through this interval is masked by a later iron overprint and oxidation front that imparts a red-orange stain to the rock throughout the interval. Locally, pervasive silicification is noticable (e.g., 38.5-39.5m) and is likely accompanied by sericite alteration +/- pyr (now to Fe-oxides?) - a QSP phyllic assemblage. Mineralization: Although fe-oxides replace most sulfides in the interval, it is apparent that there was abundant stringer veining throughout the unit with lesser ~1cm thick veins that locally appear to have CuOx content (e.g., 23.5m). 1. qtz-FeOx +/- CuOx. planar, 0.5-2cm, 0.5/m, 50tca 2. ser-qtz-FeOx (altered pyr?). stringer, range in density from 2/m to 10/m, 30-40tca, Sulfides: 0.2% pyr, 2% hem, tr. CuOx	19.4	19.6	microgranite dyke (MGR)	iron	m	phyllic 1	m	0.2					hem	2
N17-05	N. Mostaghimi					25.3	25.55	recrystallized/silicified leucogranite (LEU/GRA?)											
N17-05	N. Mostaghimi					28.66	28.7	leucranite dyke (LEU/GRA)											
N17-05	N. Mostaghimi					31.39	31.56	microgranite dyke (MGR)											
N17-05	N. Mostaghimi					34	34.5	feldspar-augen geniss/schist											
N17-05	N. Mostaghimi					34.5	34.65	microgranite dyke (MGR)											
N17-05	N. Mostaghimi					39.5	40.5	feldspar-augen geniss/schist											
N17-05	N. Mostaghimi					45.5	46.4	feldspar-augen geniss/schist											
N17-05	N. Mostaghimi	46.4	47.8	MGR	Lithology: Light grey to buff fine-grained microgranite (MGR). Dyke cross-cuts metamorphic rock at approx 40 at above contact and 30tca below (near parallel to foliation). Quartz and feldspar are intergrown and elongated parallel to contacts/foliaiton (magmatic or structural fabric?). Growth of qtz-fsp appears to be synchronous, could be indicative of the microgranite representing a late phase, fluid saturated melt that is being cooled quickly... Alteration: Interval appears weakly to moderately altered by qtz-sericite (replacing feldspars) but is less affected than the surrounding metamorphic rock which has silicification surrounding the microgranite (alteration halo? Contact metasomatism/skarn formation?). Overprinting the interval is a Iron alteration that mainly affects mafic sites within veins and haloes to fractures. Mineralization: Interval has mineralization related to dense stringer veining that has been replaced by FeOx; these overprint lesser thicker veins of qtz-FeOx+/-CuOx (e.g., at 46.42m). There does not appear to be any disseminated sulfidez that have been replaced or otherwise. 1. qtz-FeOx +/- CuOx. planar, 0.5-2cm, 0.5/m, 50tca 2. ser-qtz-FeOx (altered pyr?). stringer, range in density from 2/m to 10/m, 30-40tca, Sulfides: 0.2% pyr, 1% hem, 0.05%CuOx	46.4	47.8	vein of qtz-FeOx +/- CuOx. planar, 0.5-2cm, 0.5/m, 50tca	iron	m	phyllic 1	m	0.2					hem	1
N17-05	N. Mostaghimi	47.8	89.4	Metamorphic	Lithology: Interval of moderately oxidized, dark grey to green qtz-biotite-muscovite schist to gneiss (YTT Metamorphic). Foliation is steep to core axis (~65-70tca) and finely banded (<2-3mm) with intermittent and discontinuous veins of quartz+/-pyr that are parallel to foliation. Locally there is thin dykes (<30cm) of leucocratic intrusive, the foliated fine- to very fine-grained qtz-fsp intergrown microgranite phase (e.g., 49.9-50.1m). Locally, there is occurrences of hydrothermal breccias cemented by qtz-ser-FeOx(after pyr? e.g., 63.6-64m, 65.9-66.1m, 84-84.5m). Alteration: The alteration through this interval is masked by a later iron overprint and oxidation front that imparts a red-orange stain to the rock and removes most all sulfides. Locally, pervasive sericite-silica replacement and brecciation is noticable and is likely a QSP phyllic assemblage. Mineralization: Although fe-oxides replace most sulfides in the interval, it is apparent that there was minor stringer veining containing sulfides throughout the unit and the silica-FeOx breccias likely contained sulfides as well. 1. ser-qtz-FeOx (altered pyr?). stringer, range in density from 2/m to 10/m, 30-40tca, Sulfides: 0.2% pyr, 2% hem	49.9	50.1	microgranite dyke (MGR)	iron	m	phyllic 1	m	0.2					hem	2
N17-05	N. Mostaghimi					86.1	86.3	microgranite dyke (MGR)											
N17-05	N. Mostaghimi					86.87	87.5	microgranite dyke (MGR)											

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N17-05	N. Mostaghimi	89.4	92.46	GRA	Lithology: Buff coloured fine- to very-fine grained aplite/re-crystallized granite(?) dyke cross-cutting the metamorphic rock at 40tca. primary texture is virtually destroyed (alteration? or primary feature?). Could have been a qfp that has been pervasively altered as well. Unit is homoegeneously very fine grained intrusive that has a 20-50cm alteration halo above and below, altering the hostrock to qtz-ser. Alteration: Although there is minor iron alteration along fractures, most of the unit is pervasively and strongly altered/replaced by sericite and quartz (phyllic). Mineralization: Although fe-oxides replace most sulfides in the interval, it is apparent that there was minor stringer veining containing sulfides throughout the unit and pre-existing thicker qtz-sulfide veins: 1. qtz-pyr-FeOx. planar to brecciating, 0.5-2cm, 0.5/m, 20tca 2. ser-qtz-FeOx (altered pyr?). stringer, 10/m to 10/m, 30-40tca, Sulfides: 0.3% pyr				iron	w	phyllic 1	s	0.3						
N17-05	N. Mostaghimi	92.46	101.3	Metamorphic	Lithology: Interval of heavily fractured and brecciated, dark-grey qtz-biotite gneissic schist (YTT Metamorphic). Foliation is steep to core axis (~65-70tca) and finely banded (<2-3mm) with intermittent and discontinuous veins of quartz+/-pyr that are parallel to foliation. Locally there is dykes (<30cm) of medium-grained leucocratic intrusive, brecciating and intruding at low angles (e.g., 95-97m). Locally, there is also hydrothermal breccias cemented by qtz FeOx(after pyr?)+/-ser (e.g., 97.3-97.7m). Alteration: The alteration through this interval is masked by a later iron overprint and oxidation front that imparts a red-orange stain to the rock and removes most all sulfides. Locally, layer-restricted sericite and/or silica replacement and brecciation is present (phyllic alteration? e.g., 98.2-98.8m). Mineralization: Although fe-oxides replace most sulfides in the interval, it is apparent that there was significant stringer veining containing sulfides throughout the unit and the silica-FeOx breccias likely contained sulfides as well. 1. ser-qtz-FeOx (altered pyr?). stringer, 10/m, 25tca Sulfides: 0.5% pyr, 5% hem	94.44	98	Breccia with granite breaking up metamorphic rock	iron	m	phyllic 1	m	0.5				hem	5
N17-05	N. Mostaghimi					95	97	dykes (<30cm) of medium-grained leucocratic intrusive, brecciating and intruding at low angles											
N17-05	N. Mostaghimi					97.3	97.7	hydrothermal breccias cemented by qtz-FeOx(after pyr?)+/-ser											
N17-05	N. Mostaghimi					98.2	98.8	layer-restricted sericite and/or silica replacement											
N17-05	N. Mostaghimi					100.4	100.5	QFP? Heavily altered											
N17-05	N. Mostaghimi	101.3	123.9	Metamorphic	Lithology: Dark-grey to green qtz-biotite-muscovite garnet schist (YTT Metamorphic). Foliation is undulose and variable but typically shallow to core axis (~10-50tca). The finely banded (<1-3mm) foliation contains intermittent and discontinuous veins of quartz+/-pyr,cpy, marcasite that are parallel to foliation as well as pophyroblasts of garnet (pyrope/almandine? 4mm-4cm) throughout. Locally there is dykes (<30cm) of very fine-grained microgranitic and medium-grained leucocratic granite (e.g., 109.4-109.5m, 113-113.4m, respectively). Schistosity is increased in this interval, with coarse muscovite +/- biotite, and there is localized alteration patches that destruct most of the primary mineralogy and leave foliated grey-green qtz-sericite +/- carbonate. Alteration: This interval is the first without a late iron oxidation overprint, and the schist appears to have localized patches of sericite-qtz with a weak carbonate overprint, both in veining and pervasive; zones which have carbonate veining also have patchy dark green alteration of host rock (actinolite? e.g., 115.5-116m). Mineralization: Sulfides occur throughout this interval, both as disseminations in the metamorphic rock, patchy disseminated clots within the intrusives, and within veining throughout the interval (pyr>mrcs>cpy>aspy). Locally, the arsenopyrite content increases, both in veins and fine needle-like disseminations (e.g., 119-120m) 1. qtz-pyr-mcs+/-cpy, po, mo. planar to irregular and discontinuous, 1-5mm, 30tca, 12/m 2. qtz-ser-pyr. stringer, 1-3mm, 10-50tca, 3-5/m 3?. calcite w/ halo of patchy actinolite. stringer to irregular, 1-10mm, 15tca, 0.5/m. Sulfides: 1% pyr/mcs, 0.1%cpy, 0.1% asp, 0.005%mo	109.4	109.5	microgranite dyke (MGR)	carbonatew		phyllic 1	m	1	0.1		0	asp	0.1
N17-05	N. Mostaghimi					112.95	113.4	Granite dyke (GRA)											
N17-05	N. Mostaghimi					119	120	dense dissemination of fine acicular arsenopyrite, similar to historic samples that contain high Au content											
N17-05	N. Mostaghimi					121.92	122.12	Granite dyke (GRA)											

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N17-05	N. Mostaghimi	123.9	126.2	GRA	Lithology: Light-grey fine-grained granite(?) dyke cross-cutting the metamorphic rock at 30tca. Granite is dominantly subhedral feldspar (~60%) and anhedral/interstitial quartz (40%) with accessory disseminated sulfides that may be replacing mafic sites... Micro-pegmatite segregation at 124.67-124.97m has coarse grained feldspar (Ksp/Alb?) and quartz with some intergrowth/graphic texture and cross-cutting sulfide veinlets. Most of the interval has primary textures masked by pervasive alteration silica-sericite?) and unit locally appears to be the foliated microgranite, e.g., 125.7m (cross-cutting? or entire interval is MGR?). Alteration: A moderate phyllic assemblage (qtz-ser-pyr) appears to be pervasively altering the unit, masking most primary textures. This assemblage is overprinted by a late carbonate alteration, mostly in relation to stringer veins sporadically present through the interval. Mineralization: Minor disseminated sulfides (pyr/mcs>cpy) in the intrusion may be associated with alteration and are outweighed by sulfides in cross-cutting veins: 1. qtz-pyr-mcs+/-cpy. wormy stringers to discontinuous, 0.1-0.3cm, 10/m, 35tca 2. Fe-carb-pyr+/-qtz-cal. planar to brecciating/re-exposing, 0.1-4cm, 5/m, 20tca Sulfides: 0.5% pyr, 0.02%cpy	124.67	124.97	Micro-pegmatite segregation: has coarse-grained feldspar (Ksp/Alb?) and quartz with some intergrowth/graphic texture and cross-cutting sulfide veinlets.										
N17-05	N. Mostaghimi					125.65	125.75	foliated microgranite, less altered (cross-cutting? or rest of interval is altered MGR?	carbonatew		phyllic	1 m	0.5	0					
N17-05	N. Mostaghimi	126.2	149.8	Metamorphic	Lithology: Dark-grey to light-grey qtz-biotite-muscovite gneissic schist (YTT Metamorphic). Foliation is predominantly 20-40tca. The finely banded (<1-3mm) foliation contains intermittent and discontinuous veins of quartz+/-pyr,cpy, marcasite that are parallel to foliation as well as local pophyroblasts of garnet (pyrope/almandine? 4mm-4cm) sporadically occur throughout. Unit becomes increasingly silicified and sericitized in proximity to the granitic dykes. Alteration: Weak chlorite alteration throughout is overprinted(?) by sericite-silica, particularly in proxinity to intrusive contacts and veining (SCC/QSP phyllic?). Later carbonate veining has minor alteration associated with vein haloes and foliation horiazons. Mineralization: Sulfides occur throughout this interval, both as minor disseminations in the metamorphic rock and along foliation planes (pyr>mrcs>cpy>aspy), and within veining: 1. qtz-pyr-mcs-po-cpy +/- mo, aspy. planar, brecciating to discontinuous, 0.2cm-5cm, 50tca, 4/m 2. qtz-ser-pyr, w/ minor ser halo, locally. stringer, 1-3mm, 10-50tca, 2-3/m 3. Fe-Carb-cal-pyr. irregular discontinuous to brecciating/re-exposing, 0.5-4cm, 20tca, 1/m. Sulfides: 1% pyr/mcs, 0.1%cpy, 0.02%po, 0.05% asp, 0.005%mo				carbonatew		phyllic	1 w	1	0.1	0	0	asp	0.05
N17-05	N. Mostaghimi	149.8	153.7	MGR	Lithology: Light grey to buff white fine-grained microgranite (MGR). Dykes cross-cut metamorphic rock throughout interval (or sub-intervals of metamorphic are rafts? e.g., 150.1-150.5, 150.54-151m). Quartz and feldspar are intergrown and elongated parallel to contacts/foliaiton (magmatic or structural fabric? appear to be undulose within the intrusion). Alteration: Interval appears weakly to moderately altered by qtz-sericite (replacing feldspars) but is less affected than the surrounding metamorphic rock which has silicification surrounding the microgranite (alteration halo? Contact metasomatism?). Locally, carbonate veining and brecciation affects respective haloes. Mineralization: Interval has mineralization related to minor dissemination (pyr>>cpy) sulfide-bearing discontinuous stringer veining; these overprint lesser thicker veins of qtz-pyr-aspy (present in xenolith/hostrock but not intrusion? e.g., 150.4m). Carbonate veining also overprints this interval sporadically throughout 1. qtz-pyr-mcs-aspy w/ SiO2 halo. planar, brecciating, 1-5cm, 65tca, 1/m 2. qtz-pyr-mcs+/-cpy. stringer, discontinuous, 1-3mm, 10-15/m, 30-40tca 2. ser-pyr, w/ minor ser halo, locally. stringer, 1-3mm, 10-50tca, 2-3/m 3. Fe-Carb+/-pyr, anh. irregular discontinuous to brecciating/re-exposing, 0.5-4cm, 20tca, 1/m Sulfides: 0.8% pyr, 0.1%cpy, 0.01%po, 0.2%asp	150.1	150.5	Sub-interval of YTT metamophic - raft or hostrock between dykes?	carbonatew		phyllic	1 m	0.8	0.1	0		asp	0.2
N17-05	N. Mostaghimi					150.54	151	Sub-interval of YTT metamophic - raft or hostrock between dykes?											
N17-05	N. Mostaghimi	153.7	158.8	Metamorphic	Lithology: Short interval of YTT metamorphic rock, similar to those ddescribed above. Dark-grey to light-grey qtz-biotite-muscovite gneissic schist with foliation at 60-70tca. Unit becomes increasingly silicified and sericitized in proximity to the granitic dyke above and with the QFP below. Alteration: Weak chlorite alteration throughout is overprinted(?) by sericite-silica, particularly in proxinity to intrusive contacts and veining (SCC/QSP phyllic?). Later carbonate veining has minor alteration associated with vein haloes and foliation horizons. Mineralization: Sulfides occur throughout this interval, both as minor disseminations in the metamorphic rock along foliation planes (pyr>mrcs>cpy>aspy), and within veining: 1. qtz-pyr-mcs-asp+/- cpy, po, mo. planar, brecciating to discontinuous, 0.2cm-5cm, 50tca, 2/m 2. qtz-ser-pyr, w/ minor ser halo, locally. stringer, 1-3mm, 10-50tca, 5/m 3. Fe-Carb-pyr+/-anh. irregular discontinuous to brecciating/re-exposing, 0.5-4cm, 20tca, 0.5/m. Sulfides: 1% pyr/mcs, 0.05%cpy, 0.02%po, 0.05% asp, 0.005%mo				carbonatew		phyllic	1 m	1	0.1	0	0	asp	0.05

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N17-05	N. Mostaghimi	158.8	178.2	QFP	Lithology: Dark to light grey, crowded (40-45% phenos) quartz-feldspar porphyry (QFP). Dominant phenocryst is fsp (~85%, euhedral to subhedral, heterogeneous size distribution: 2mm-2cm), lesser subrounded quartz (~15% of phenos, 0.5-5mm), and accessory disseminated sulfides (1-3mm, pyr>>cpy). Groundmass is made up of aphyric SiO2-rich intermediate grey intrusive. Upper contact intrudes the YTT at ~50tca, and lower contact is demarcated by a 70-80tca contact but nearby qfp dykes intermittent for the next 1m (or is there rafts of YTT in QFP body?). The interval is locally brecciated by anastamosing silica veins that carry pyr and trace asp, cpy (e.g., 171.4-172.3m). Alteration:Entire interval is moderately silica +/- sericite (replacing most feldspar phenocrysts) altered, possibly related to a phyllic (QSP) assemblage that introduces pyr stringers. Mineralization: Sulfides occur in this interval as minor patchy disseminations and in veins (pyr/marcasite>>cpy): 1. qtz-pyr-mcs-asp+/- cpy. planar to discontinuous, 0.2cm-2cm, 20tca, 1/m 2. qtz-ser-pyr, w/ minor ser halo, locally. stringer to planar and irregular discontinuous, 1-3mm, 10-50tca, 10/m 3. Fe-Carb-pyr+/- anh. irregular discontinuous to brecciating/re-exposing, 0.5-4cm, 20tca, 1/m. Sulfides: 1% py/marcasite, 0.05% cpy, 0.05% aspy, 0.005%mo	171.4	172.3	anastamosing qtz-pyr-asp+/-cpy veins low to core axis brecciates qfp and is subsequently exposed by carbonate veining.	carbonatew		phyllic 1	w	1	0.1		0		asp	0.05
N17-05	N. Mostaghimi	178.2	197.1	Metamorphic	Lithology: Light-grey to buff qtz-biotite gneissic schist (YTT Metamorphic). Unit is extenisvley altered, but remnant foliation is predominantly 70-80tca. The finely banded (<1-3mm) foliation contains intermittent and discontinuous veins of quartz+/-pyr,cpy, marcasite that are parallel to foliation and become partially to completely replaced by alteration minerals, most commonly sericite+quartz+/-sulfides - particularily in proximity to the porphyry above and the heavy hydrothermal replacement unit below (massive variety of such a replacement). Locally, there is a microgranitic dyke cross-cutting foliation (@ 183.89-184.1m), and some silica (+/-ser-pyr) breccia intervals at 188.4-188.8m). Alteration: Moderate to strong silica replacement (+/-ser-sulfides), particularily in proximity to intrusive contacts and veining. Later carbonate+/-chl, py and anh overprint has some minor CO3 alteration associated with veining (propylitic?carbonate?). Mineralization: Sulfides occur throughout this interval as minor disseminations in the metamorphic rock along foliation planes, with veining, and as semi-massive replacement along the gneissic bands (skarn formation? e.g., 193.55-194m, 194.7-195.5m; pyr>mrcs>cpy=aspy): 1. qtz-pyr-mcs-po-cpy +/- aspy. planar, brecciating to discontinuous, 0.2cm-3cm, 15-70tca, 0.5/m 2. qtz-ser-pyr-mcs. stringer to planar, 1-3mm, 10-50tca, 3/m 3. cal-chl-pyr+/-anh, FeCarb. irregular discontinuous to brecciating/re-exposing, 0.5-4cm, 20tca, 1/m. Sulfides: 2% pyr/mcs, 0.2%cpy, 0.02%po, 0.1% asp	183.89	184.1	MGR- thin microgranitic dyke	propylitic w		phyllic 1	m	2	0.2	0			asp	0.1
N17-05	N. Mostaghimi					188.4	188.8	silica (+/-ser-pyr) breccia interval											
N17-05	N. Mostaghimi					193.55	194	semi-massive sulfide replacement along the gneissic bands (skarn formation? Pyr/mcs>cpy=aspy)											
N17-05	N. Mostaghimi					194.7	195.5	semi-massive sulfide replacement along the gneissic bands (skarn formation? Pyr/mcs>cpy=aspy)											
N17-05	L. Bickerton	197.1	204.8	Metasomatic/other	Lithology: Interval of qtz-biotite gneissic schist (YTT Metamorphic) is extensively and pervasively replaced by hydrothermal mineralization; dominantly coarse sulfide+actinolite-chlorite-magnetite, lesser tourmaline(?)-silica. Relic foliation is predominantly 70-80tca, but much of the interval has texture and fabric-destructive replacement - locally this is in the form of brecciation (e.g., 198-201m) where the main sulfide+/-silica cement is later infilled by caronate-anhydirte. Sulfides range from fine-grained accumulations along remnent foliation planes, to 5-10cm rounded (framboidal-esk) to cubic shaped patches. Cu-sulfides are visible rimming the pyrite patches and arsenopyrite can be seen intergrown with sulfides near perimeter of main replacement zone. Actinolite/chlorite also forms patchy masses, whereease magnetite and tourmaline are found irregularily interstital and banded throughout the interval. Alteration: The intense replacement by chl-act-mag-SiO2-sulfide is akin to skarn formation by fluids resulting in a propylitic(?+/-calcic) assemblage. Was there a layer within the metamorphic unit that was more susceptible to this replacement? Mineralization: Sulfides are the main constiuent throughout this interval, occurring as semi- to massive replacement, as breccia cement, and as vein fill. The order of abundance (pyr/mcs>>po>cpy>asp) also reflects the order of coarseness for these sulfides. Sulfides: 40% pyr/mcs, 0.8%cpy, 1%po, 0.3% asp				carbonatew			i	40	0.8	1			asp	0.3
N17-05	L. Bickerton	204.8	224.7	Metamorphic	Lithology: Light-grey to buff qtz-biotite gneissic schist (YTT Metamorphic) with foliation ~70-80tca. Interval has variable alteration throughout and, locally, has intrusive dykes of variable character; 1) foliation parallel qtz-feldspar porphyry--> or ser-apt(?) altered microgranite/fine-grained granite, e.g., 205.13-206.65m, 216-218m, 2) foliated, intruding obliquely, fine-grained qtz-fsp rich microgranite (e.g., 221.93-222.13m). Alteration: Most of interval contains pervasive silica flooding + sericite replacement of feldspars, where present (phyllic?), an assemblage that is present in veining through the interval. Mineralization: Sulfides occur in this interval as disseminations (minor amount overall, but increased disseminated asp present between 204.8-206.8m) and as veining (pyr/mrcs>aspy>cpy): 1. qtz-pyr-asp+/cpy, bio w/ SiO2 & diss. asp in halos. irregular stringer to planar, 0.1cm-2cm, 10-50tca, 4/m 2. qtz-ser-pyr-mcs. stringer/re-exposing to thick planar, 1mm-5cm, 10-80tca, 5/m 3. cal-chl-pyr+/-anh, FeCarb. irregular discontinuous to re-exposing, 0.5-1cm, 30tca, 2/m. Sulfides: 0.8% pyr/mcs, 0.05%cpy, 0.01%po, 0.5% asp	204.8	206.8	disseminated asp through this interval, associated with veinset #1? Favours silica flooded gneissic bands	carbonatew		silica	s	0.8	0.1	0			asp	0.5
N17-05	L. Bickerton					205.13	206.65	foliation parallel qtz-feldspar porphyry--> or ser-apt(?) altered microgranite/fine-grained granite?											

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N17-05	L. Bickerton					216	218	foliation parallel qtz-feldspar porphyry--> or ser-apt(?) altered microgranite/fine-grained granite?											
N17-05	L. Bickerton					221.93	222.13	MGR- thin microgranitic dyke											
N17-05	L. Bickerton	224.7	226.8	MGR	Lithology: Light grey to buff white fine-grained microgranite (MGR). Quartz and feldspar are intergrown and elongated parallel to contacts/foliaiton. Some of the more resistant feldspars in this interval (not-altered to sericite, Ksp?) act as sigma pophyroclasts (augen-like) in the foliation- rounded, with stretched qtz and aligned sericite wrapping around them. Alteration: Interval appears weakly to moderately altered by qtz-sericite (replacing feldspars), similar assemblage to the veining through the interval. Mineralization: Mineralization is related to veining: 1. qtz-pyr-mcs+/-cpy, asp. planar with diffuse boundaries, 1-3cm, 3/m, 60tca 2. ser-pyr-chl, w/ minor ser halo, locally. stringer, 1-3mm, 10-50tca, 8/m Sulfides: 0.5% pyr, 0.02%cpy, 0.02%asp				Phyllic 1	m	silica	w	0.5	0			asp	0.02
N17-05	L. Bickerton	226.8	266.3	Metamorphic	Lithology: Light-grey-green to brown qtz-biotite-muscovite schist (YTT Metamorphic) with foliation ~70tca. Interval has variable alteration throughout and, locally, this unit is intrued by a foliated fine-grained leucocratic granite (MGR, e.g., 234-234.6m, 234.9-235.1m, 235.3-235.4m, 260.75-261.07m, 261.84-262.8m). Intermittently through the unit, there are early hydrothermal qtz veins that expose and follow foliation, ranging in size (0.5-5cm) and continuity (some pinch and swell, others are planar); these veins typically have minor pyr, mo, asp mineralization but are cross-cut by the later mineralizing event. The later mineralized veins and/or the aforementioned veinset may be related to the localized pervasivve silicification of some bands within the gneissic schist (e.g., 250.7-251.8m). The schist also appears to have been cross-cut by a less deformed but more altered intrusive, a medium- to coarse-grained equigranular leucogranite (e.g., 236-236.8m, 238.1-238.9m). Alteration: Interval has variable alteration but is predominantly affected by silicification and sericitization with variable intensity for each; typically silica flooding occurs in the metavolcanic and sericite strongly affects intrusives (e.g., strong SiO2 flooding between 250.7-251.8 and strong sericite between 238-239m). Overall the interval shows a moderate to locally strong phyllic (QSP) assemblage with a weak carbonate overprint associated with veins. Mineralization: Sulfides occur a disseminated mafic replacements throughout the metamorphic unit, typically pyrite throughout, +/-cpy, aspy in more altered intervals. Veining is the predominant sulfide carrier: 1. qtz-pyr-asp +/-cpy w/ minor SiO2 halo, locally. planar to discontinuous, 1-5/m, 30tca, 2-15mm. 2. qtz-FeCarb-cpy-pyr-sph. wormy to planar, 0.5-1.5cm, 10-20tca, 0.5/m 3. pyr +/- ser, qtz. stringer to discontinuous, some expose foliation, 1-3mm, 40-50tca, 5-15/m Sulfides: 0.5%pyr, 0.06%cpy, 0.01%po, 0.005%mo, , 0.01%sph, 0.3% asp	230.6	231.1	breccia in metamorphic rock, cemented by asp-qtz-py-po	carbonatew		phyllic 1	m	0.5	0.1	0	0	asp	0.3
N17-05	L. Bickerton					234	234.6	MGR- thin microgranitic dyke											
N17-05	L. Bickerton					234.9	235.06	MGR- thin microgranitic dyke											
N17-05	L. Bickerton					235.27	235.37	MGR- thin microgranitic dyke											
N17-05	L. Bickerton					236	236.75	medium- to coarse-grained equigranular leucogranite											
N17-05	L. Bickerton					238.1	238.9	medium- to coarse-grained equigranular leucogranite											
N17-05	L. Bickerton					250.7	251.8	pervasivve silicification of the gneissic schist											
N17-05	L. Bickerton					260.75	261.07	MGR- thin microgranitic dyke											
N17-05	L. Bickerton					261.84	262.8	MGR- thin microgranitic dyke											

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N17-05	L. Bickerton	266.3	273.1	GRA	Lithology: Light-grey to white medium-grained granite cross-cutting the metamorphic rock at 30tca (upper contact) and 60tca (lower contact). Granite is dominantly euhedral to subhedral feldspar (~60%) and interstitial quartz (30-35%) with some mica (~5-10% now replaced by sericite+/-sulfide - musc?) and accessory disseminated sulfides (pyr>cpy>asp, last two hydrothermal?). Most of the interval is moderately, but pervasively, altered to sericite (fsp+micas), with primary textures preserved. There is sub-intervals within the granite that have increased xenolith content (YTT metamorphic, e.g., 266.6-267.67m) as well as xenoliths of fine-grained leucocratic microgranite (MGR, e.g., 269.3-269.42m, 271.4-271.5m). Alteration: A moderate phyllic assemblage (qtz-ser-pyr) appears to be pervasively altering the unit, replacing most feldspar and micas in the granite with fine-grained sericite+/-clays. Pyrite occurs along microfractures and also replaces disseminated mafics(?) in the granite. Locally, a hydrothermal breccia is primarily cemented by SiO2, part of a phyllic breccia? Mineralization: Minor disseminated sulfides (pyr/mcs>cpy=asp) in the intrusion may be associated with alteration and are outweighed by sulfides in cross cutting veins: 1. qtz-pyr-asp +/-cpy w/ minor SiO2 halo, locally. planar to discontinuous, 1-5/m, 30tca, 2-15mm. 2. qtz-FeCarb-cpy-pyr+/-mo-sph. planar, 0.5-1.5cm, 10-20tca, 0.5/m 3. pyr +/- ser, qtz. stringer to discontinuous, some expose foliation, 1-3mm, 40-50tca, 5-15/m Sulfides: 0.8% pyr, 0.1%cpy, 0.008% mo, 0.01%sph, 0.5%asp	266.6	267.6	interval of increased YTT xenolith content	Phyllic 1	m			0.8	0.1		0		asp	0.5
N17-05	L. Bickerton					269.3	269.42	xenolith of microgranite, early veins truncated by contact with granite											
N17-05	L. Bickerton					271.4	271.5	xenolith of microgranite, early veins truncated by contact with granite											
N17-05	L. Bickerton					272	272.6	low-angle hydrothermal breccia (?not a xeno?) that is primarily cemented by SiO2, with fragments of qtz-sulfide veins, YTT metamorphic, m.g. granite, microgranite. Breccia is crosscut by vein of FeCarb-qtz-cpy-mo											
N17-05	L. Bickerton	273.1	279.2	Metamorphic	Lithology: Dark grey to brown qtz-biotite schist (YTT Metamorphic) with foliation ~70tca. Interval has weak to moderate qtz-ser alteration throughout and, locally, this unit is intrued by a foliated fine-grained leucocratic granite (MGR, e.g., 274.73-274.88m). Early hydrothermal qtz veins expose and follow foliation sporadically through the unit, ranging in size (0.5-5cm) and continuity (some pinch and swell, others are planar). Unit is similar to that described above the previous unit. Alteration: Interval has variable alteration but is predominantly affected by weak to moderate silica and sericite, as well as the replacement of mafic sited throuhgout the schist by pyrite (QSP phyllic?). Mineralization: Sulfides occur a disseminated mafic replacements throughout the metamorphic unit, typically pyrite throughout, +/-cpy, aspy in more altered intervals. Similar to the rest of the hole, veining is the predominant sulfide carrier: 1. qtz-pyr-asp +/-cpy w/ minor SiO2 halo, locally. planar to discontinuous, 1-5/m, 30tca, 2-15mm. 2. qtz-FeCarb-cpy-sph+/-pyr. planar, 0.5-1.5cm, 10-20tca, 0.5/m 3. pyr +/- ser, qtz. stringer to discontinuous, some expose foliation, 1-3mm, 40-50tca, 5-15/m Sulfides: 0.5%pyr, 0.1%cpy, 0.05%sph, 0.2% asp	274.73	274.88	foliated fine-grained leucocratic granite (MGR) dyke	Phyllic 1	m			0.5	0.1				asp	0.2
N17-06A	D. Lefort	0	6.1	NRC															
N17-06A	D. Lefort	6.1	11.42	OVB	Schist: Oxidized. Core is broken or very soft. Oxidized throughout, stringers oxidized to hem. Ox number of 2-3.				Iron	m	Phyllic 1	s							
N17-06A	D. Lefort	11.42	23.66	SCH	Schist: light to medium Grey schist, infrequent gnessic qtz banding. Carb veins present. Core is very soft, broken and rubbly. Strongly phyllically altered with most of texture destroyed. Core washes away when trying to clean. Mineralization: Cpy-Py stringer present. Py-+Chl stringers throughout, wispy, diffuse, often discontinuous. Veining: Carb veining (ankerite?), tan, effervesces when scratches. Alteration: Strong phyllic alteration, often altered to vry soft green mica-clays. Structures: Broken and rubbly throughout, fault gouge (?) or pulverized, jointed, soft altered rock present				Phyllic 1	s			0.1	0					
N17-06A	D. Lefort						16.53	Cpy-Py stringer, 1mm, 90 deg tca											
N17-06A	D. Lefort					16.6	19.81	Broken core, fault gouge? Soft, pulverized jointed rock?											
N17-06A	D. Lefort	23.66	27.43	QFP	Qtz-Feldspar Porphyry: Tan grey groundmass, white-tan feldspar crystals (~1mm). Weak-moderate phyllic alteration. Mineralization: Py stringers (+Chl) throughout. Wispy and discontinuous. Diss Py <1mm irregular blebs. Alteration: Moderate phyllic alteration throughout. Feldspar crystals altered to soft, white mica-clays. Oxidation along fractures. Structures: Broken core throughout, heavily jointed interval (?)				iron	w	Phyllic 1	m	1						
N17-06A	D. Lefort	27.43	67.8	SCH	Schist: White, light to medium grey, gneissic schist. Intervals of strong foliated purple-brown. Soft throughout, strongly phyllically altered. Qtz bands in gneissic portions remain intact. Core is often broken, rubbly and pulverized. Cut by leucotonaite, granite and aplite dyklets. Mineralization: Qtz-Cpy-Py stringers-veinlets present in notable concentrations from 44.3 to 46.3m. Veinlets are low angle, ~1-3 mm thick. Cpy-Py disseminated. Py stringers-veinlets throughout, wispy, discontinuous. Carb-Py lenses present. 3cm long with subrounded Py crystals. elongated ~5mm. Wispy shear Carb-Py veinlets present. Alteration: Strong phyllic alteration throughout, white mica-clays. Folatied portions of schist are strongly altered, usually soft and rubbly, gneissic Qtz bands remain fairly competent. Carb veins throughout, up to 1.5cm ~45 deg tca, some with druzy texture and cavities. Carb veining infills portions of gneissic Qtz bands. Weak carbonate alteration from 33 to 37m. Structures: Broken, rubbly and pulverized core throughout may indicate fault zones or heavily jointed intervals. Fault gouge present.				Carbonate	w	Phyllic 1	s	1	0.1					
N17-06A	D. Lefort					33	37	Weak carbonate alteration											

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N17-06A	D. Lefort						35	Carb-Py lenses, 3cm long, ~0.5 mm elongated Py crystals											
N17-06A	D. Lefort						39.25	Leucotonalite dyke. White, crowded plag crystals (~1mm) with white interstitial Qtz. Rounded inclusion of altered Schist (brown-purple)											
N17-06A	D. Lefort						39.95	Leucotonalite dyke. White, crowded plag crystals (~1mm) with white interstitial Qtz. Pod, doesn't cross core axis.											
N17-06A	D. Lefort					44.2	46.3	Qtz-Cpy-Py stringers-veinlets. 1-3mm, irregular, low angle-parallel tca. Diss Cpy+Py					2	1					
N17-06A	D. Lefort					46.3	50.29	Pulverzied and broken core, muddy, mm to cm sized roc fragments. Some granite fragments in broken sections											
N17-06A	D. Lefort					51.9	53.75	Qtz fragments w/l metased up to 4cm, blocky, fractured w Py stringers infilling											
N17-06A	D. Lefort						54.6	Qtz-Carb-Py cut by carb-py stringer, wispy											
N17-06A	D. Lefort						54.8	Qtz-Py cut by carb-py stringer, wispy											
N17-06A	D. Lefort					56.2	56.39	Broken core, Qtz vein w py in fractures											
N17-06A	D. Lefort					60.35	60.65	Granite dyke, medium grained leucocratic, euhedral crystals of Qtz w interstitial feldspars. Diss Py											
N17-06A	D. Lefort					62.48	62.75	Granite dyke, medium grained leucocratic, finer-med grained											
N17-06A	D. Lefort	67.8	70.77	QFP	Qtz-Feldspar Porphyry: Grey-green groundmass, Qtz eyes 1-5 mm, white-tan feldspar crystals (~1 to 5mm, up to 1.5cm, zoned). Weak-moderate phyllic alteration. Felspar crystals often altered to tan-green mica-clays, some contain mafics or sulfides. <1mm fleck of dark mafic minerals present, altered to Chl? Mineralization: Cpy-Py veinlets. Wispy Carb-Qtz-Py stringers throughout. Wispy and discontinuous hairline stringers of Py (?). Hairline stringers increase towards the base of the unit, they are aligned. Qtz-Py veinlets. Diss Py (tr Cpy), rounded to irregular. <1mm. Alteration: Moderate phyllic alteration.									1	0.3					
N17-06A	D. Lefort						68.12	Cpy-Py veinlet 1mm, low angle					1.5	0.5					
N17-06A	D. Lefort						68.2	Qtz-Cpy-Py veinlet 3-5mm, low angle Qtz w interstitial Capy-Py											
N17-06A	D. Lefort						69.6	Rounded fine-grained granitic inclusion											
N17-06A	D. Lefort	70.77	97.54	SCH	Schist: Intense phyllic alteration, very soft characterized by Qtz-Carb and Sulfide breccias with Cpy mineralization. Unit is wispy and chaotic throughout, washes away when cleaning/scrubbing. Core is broken or pulverized in many intervals. The amount of caving in the hole lead to early termination. Mineralization: Qtz (blueish-translucent)-Cpy-Py (interstitial texture) veinlets, 5mm to 2cm, ~40 deg tca. Cpy occurs in Qtz (clasts)-Carb (infill) breccia as mm sized blebs along with Py. Cpy also occurs in a sufide breccia. Clasts of Py-altered Metased (?) are hosted in clay matrix (previously Carb ?) with blebs of Cpy throughout. Dendritic patches of Py are encountered in this unit. Alteration: Strong phyllic alteration throughout, Schist and breccias are very soft and rubbly. Structure: Breccia zones throughou the unit.									4	1.3					
N17-06A	D. Lefort					72.3	74	Intense phyllic altered Qtz-Carb breccia w/ irregular cpy blebs, Qtz-Cpy-Py vein, 45 deg, 2.5cm thick, textures destroyed by alteration.											

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N17-06A	D. Lefort					74	75.2	Breccia: Py-bearing altered clasts, cm sized, subrounded to subangular, matrix altered to clays white, very soft.											
N17-06A	D. Lefort					75.2	76.2	Broken core fault gouge											
N17-06A	D. Lefort					76.2	77.47	Bands of Py, dendritic Py throughout											
N17-06A	D. Lefort					77.47	78.1	Broken core											
N17-06A	D. Lefort					78.1	79.8	Moderately altered Sch with carb veinlets, Qtz-Py veinlet											
N17-06A	D. Lefort					79.8	83.1	Breccia: Strong-intense phyllic alteration, ang to rounded clasts of sch within matrix of clays											
N17-06A	D. Lefort					83.7	85.85	Broken core, sulfides throughout											
N17-06A	D. Lefort					88.05	89.35	Granite											
N17-06A	D. Lefort					89.9	92.96	Broken core, breccia											
N17-06B	D. Lefort	0	4.57	NRC															
N17-06B	D. Lefort	4.57	17.3	OVB	Soft, muddy, broken boulders of schist				Iron	m	phyllic 1	s							
N17-06B	D. Lefort	17.3	21.53	SCH	Schist: Very soft, altered to clay. Grey-brown, foliation observed, light and dark bands. Gneissic Qtz bands present. Broken, rubbly core in parts.				Iron	w	phyllic 1	m							
N17-06B	D. Lefort	21.53	24.84	QFP	Qtz-Feldspar Porphyry: Tan grey groundmass, white-tan feldspar crystals (~1mm). Weak-moderate phyllic alteration. Mineralization: Py stringers (+Chl) throughout. Wispy and discontinuous. Diss Py <1mm irregular blebs. Alteration: Moderate phyllic alteration throughout. Feldspar crystals altered to soft, white mica-clays. Oxidation along fractures. Structures: Broken core throughout, mostly cobble sized, angular fragments. Heavily jointed interval (?)														
N17-06B	D. Lefort	24.84	34.85	SCH	Schist: Very soft, altered to clay. Grey-brown, foliation observed, light and dark foliations. Gneissic Qtz bands present. Broken, rubbly core in parts. Granitic dykes cutting schist. Mineralization: Py stringers and veinlets throughout. Alteration: Strong-intense phyllic alteration, white-grey clays, very soft. Veining: Calcite veins 32.80-34.5m up to 4cm thick. Structures: Broken core throughout, small breccia zones present. Carb								0.3						
N17-06B	D. Lefort					26	26.2	Breccia, rounded mm sized pebbles of altered schist											
N17-06B	D. Lefort					28.96	29.26	Granitic dyke, medium grained, leucocratic, strongly phyllically altered	phyllic 1	s									
N17-06B	D. Lefort					29.3	30	Medium grey-green, silicified (?) unit with common veinlets and disseminated Py	Silica	w	phyllic 1	s	2						
N17-06B	D. Lefort					30.35	33.53	Broken coke. Phyllic altered schist, carb veins, grey-green clays											
N17-06B	D. Lefort					33.95	34.2	Calcite veining, late infilling some gneissic Qtz bands											
N17-06B	D. Lefort	34.85	81	SCH	Schist: Schist with purple-brown, dark grey foliations and gneissic Qtz bands. Cut by Qtz veins, granite dykes and microgranite dykes (<1mm). Mineralization: Qtz-Cpy-Py+-Ars veinlets, 1-2mm 40 to 60 deg tca. Py stringers, lenses throughout (increase from 37 to), Py often associated with Carbonate alteration-veining. Round Py blebs, 5mm. Alteration: Moderate to intensely phyllically altered, to light purple-brown, white-tan and grey clays. Localized silicified zones. Structures: Breccia, shear zones, fault gouge, broken core				carbonatew		phyllic 1	m	1.5	0.1				asp	0.01
N17-06B	D. Lefort					35.2	38.37	Microgranite, fine-grained foliated towards lower contact. Discontinuous Gypsum stringers.											
N17-06B	D. Lefort						36.42	Qtz-cpy-py stringer, 45 deg tca, wavy,2-3mm											
N17-06B	D. Lefort					38.53	38.67	Round Py blebs 5mm associated with Carb stringers, tan-brown wispy stringers (clay=ankerite?)					2.5						

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N17-06B	D. Lefort					39.23	39.78	Qtz vein, cloudy white Qtz with wispy late stringers-veinlets of Carbonate. Round blebs of Py with the Qtz, cut by Carb stringers. Carb is white and tan (Calcite and ankerite?)					2.5						
N17-06B	D. Lefort						39.93	Qtz-cpy-py veinlet, 40 deg tca, 3mm, offset by microfault											
N17-06B	D. Lefort					40	41.3	Zone with common wispy, discontinuous, lens-like Py associated w carbonates					3.5						
N17-06B	D. Lefort					40.9	41.07	Phyllically altered leucogranite, medium grained, some diss py and py stringers					1.5						
N17-06B	D. Lefort					42.17	42.57	Qtz interval, banding in same orientation of foliation of schist, cut by carb stringers											
N17-06B	D. Lefort					43.44	43.96	Silicified Qtz granite dyke (?), cloudy grey brown Qtz w interstitial carb and carb stringers-veinlets											
N17-06B	D. Lefort						44.05	Cpy bleb in strong phyllic altered schist, with patchy, floret-like tan carb, aquamarine clays, white clays, initial texture destroyed											
N17-06B	D. Lefort						44.33	Cpy clots (4-5mm) in strong phyllic altered schist, with patchy, floret-like tan carb, aquamarine clays, white clays, initial texture destroyed											
N17-06B	D. Lefort						44.6	Cpy-Py veinlets, diffuse, Cpy and Py occurring adjacent											
N17-06B	D. Lefort					44.75	45	Wispy Carb-Cpy-Py veinlets, irregular. Cpy-Py occurs as rounded blebs. Vein cuts across core axis											
N17-06B	D. Lefort						45.12	Cpy bleb 5mm, associated with Qtz-Carb discontinuous vein											
N17-06B	D. Lefort					47.12	47.35	Broken core											
N17-06B	D. Lefort					47.35	48.35	Fault gouge, broken core towards base, Py veinlets in broken core											
N17-06B	D. Lefort					48.48	48.77	Granite dyke, medium grained, py stringers (light brass, As-bearing?)											
N17-06B	D. Lefort					49	50.29	Moderate silicification of schist, fabric very faint, hard, Py stringers common											
N17-06B	D. Lefort					50.29	51	Broken core, angular cobbles of schist and granite											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort					53	54.86	Broken core, dark grey green phyllic altered schist. Pebble-cobbles of angular rock fragments											
N17-06B	D. Lefort						54.93	Cpy-Py stringer, <1mm 45 deg tca											
N17-06B	D. Lefort					55	55.4	Broken core, dark grey green phyllic altered schist. Cobbles of angular rock fragments											
N17-06B	D. Lefort						55.75	Irregular Py-Carb vein, chaotic (sheared?) cut by late carb stringers											
N17-06B	D. Lefort						56.8	Blocky, truncated Py veinlet with hairline carb selvages											
N17-06B	D. Lefort						57	Wispy, discontinuous Py stringers-veinlets											
N17-06B	D. Lefort						57.85	5cm zone of foliation with diss Py, cut by wispy carb-py											
N17-06B	D. Lefort					58.75	59	Broken core											
N17-06B	D. Lefort					59	61.6	Dark purple schist with ~1mm crystals (augen?), boudinage Qtz, angular fragments of Qtz bands											
N17-06B	D. Lefort						59.6	Low angle irregular Carb-Py veinlet											
N17-06B	D. Lefort						61.6	Py veinlet, wispy, 55 deg tca, with light halo											
N17-06B	D. Lefort						62.6	Cpy-Py clots adjacent offshoots from a wavy carb veinlet, 3mm, 30 deg tca											
N17-06B	D. Lefort						63.25	Qtz-Carb-Py-Tr-Cpy veinlet, 3mm, 45 deg tca, microfaulted											
N17-06B	D. Lefort					64	65	Dark foliation with small (<1mm), white carbonate augens? Carb+-Py stringers-veinlets throughout											
N17-06B	D. Lefort					65.73	66.55	Breccia, rounded clasts of quartz, with clay fault gouge infill											
N17-06B	D. Lefort					66.55	78.8	Mostly light coloured interval, white-light grey altered schist, with discontinuous Py stringers throughout, weak siliceous and carbonate alteration, intense phyllic alteration in parts.	carbonatew		silica	w							
N17-06B	D. Lefort					69.93	70.1	Grey-tan interval of strong phyllically altered schist, with abundant Py stringers, all orientations w tr Cpy											
N17-06B	D. Lefort					70.87	71.38	Qtz-Cpy-Py stringers and late Carb-Py stringers throughout in various orientations					4	1					

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort					78.8	78.95	Shear zone with purple-brown foliations, wispy Carb, elongated blebs-clots of Py, blocky fractured Qtz-Py veins w carb infilling											
N17-06B	D. Lefort					78.95	79.3	Shear zone, wavy purple-brown foliation, minor mm boudinages of Carb in a grey-green clay groundmass											
N17-06B	D. Lefort	81	86.42	GRA	Granite: Medium grained Granite with small <1mm interstitial dark minerals (biotite), moderate to strong phyllic alteration. Thin microgranite bands present, fine grained and foliated. Thin intervals of schist. Mineralization: Qtz-Carb-Cpy-Py, Qtz-Py stringers and veinlets throughout, late Carb-Py veinlets present with Hem as halos and selvages. Alteration: Moderate to strong phyllic alteration throughout, feldspars altered to white mica clays, soft and crumbly in parts.						carbonatew		phyllic	1 m	3	0.5					
N17-06B	D. Lefort					81	82.5	Common Qtz-Carb-Cpy-Py veinlets throughout interval, Qtz-Carb-Cpy-Py cutting Qtz-Py veinlet, varying orientations and thicknesses 1mm to 1cm					5	2					
N17-06B	D. Lefort						83.45	Carb-Py veinlet with Hem selvages and halo, 15 deg tca, up to 1cm thick											
N17-06B	D. Lefort						84	Carb-Py veinlet with Hem selvages, 10 deg tca, 5mm thick wispy											
N17-06B	D. Lefort						85.61	Carb veinlet w Py selvages											
N17-06B	D. Lefort	86.42	96.7	SCH	Schist: Light brown-purple and dark grey-green schist with gneissic Qtz banding, Qtz and Carb veins. Low angle foliation 5 deg tca. Medium grained, leucocratic granite dyklet near upper contact. Lower half of unit is more chaotic, less defined foliation with abundant Qtz and Carb breccia veining with patches of soft flakey altered schist. Mineralization: Qtz-Carb-Py veins throughout, late Carb+-Py veins present varying orientations. Low angle Qtz-Py veins parallel to foliation. Alteration: Weak phyllic alteration throughout. Weak carbonate alteration throughout, common carb veins at all orientations, sometimes perpendicular or parallel tca.						carbonatew		phyllic	1 w	4	0.5					
N17-06B	D. Lefort					88.8	89.12	Granite dyke, leucocratic, medium grained, Qtz-py stringers-veinlets, some cut by Carb veinlets											
N17-06B	D. Lefort						89.3	Thin shear zone with wispy clay-mica, Qtz-Py veinlet truncated by Carb veinlet											
N17-06B	D. Lefort						90.2	Low angle Qtz-Py veins, cut by carb veinlets, microfaulted											
N17-06B	D. Lefort						91.07	Qtz-Carb-Cpy-Py stringer 10 deg tca, 1mm											
N17-06B	D. Lefort						91.56	Qtz-Cpy-py veinlet, 80 deg tca, 1.5cm wide, interstitial Cpy and Py											
N17-06B	D. Lefort						96.75	Brecciated healed mm-cm subround-subangular clasts in Carb matrix, clustered Py blebs											
N17-06B	D. Lefort	96.7	110.3	SCH	Schist: Light grey schist with brown-tan to purple-brown interval and gneissic bands of Qtz. Foliation is wavy but low angle ~5-10 deg tca. Intervals were foliation is not observed. Thick Qtz intervals present (thick gneissic band at low angle tca?) that contain fragments of schist with similar orientation (5-10 deg tca). Medium grained granite dyklets present. Granite has strong phyllic alteration, feldspars are altered to white mica-clays, Qtz can be medium grey colour. Intervals of strongly weathered schist which yields a very soft, flakey crumbly texture. Alteration: Phyllic alteration throughout. White mica clays, patches of aquamarine-green clays present in chaotic, sheared zones. Structures: Brecciated and sheared zones at low angle to core, often healed by Carb infill,						carbonatew		phyllic	1 s							
N17-06B	D. Lefort					102.31	102.57	Carb+clay altered section with relic foliation intact											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort					102.88	103.95	Granite dyke, strong phyllic alteration, brecciated upper contact with pink carb and Py clots, Py stringers throughout, Qtz-Carb-Cpy-Py present											
N17-06B	D. Lefort						103.3	Qtz-Carb-Cpy-Py veinlet, 2cm, 55 deg tca											
N17-06B	D. Lefort					104.36	104.5	Clay-Carb interval, white											
N17-06B	D. Lefort						105	4cm breccia zone, rounded clasts											
N17-06B	D. Lefort						105.29	Py-tr Cpy discontinuous stringer											
N17-06B	D. Lefort					105.65	106.38	Brecciated and sheared zone, carb-Py											
N17-06B	D. Lefort						109.26	Carb-Cpy-Py irregular vein along contact of Carb-Breccia and green clay interval											
N17-06B	D. Lefort						110.25	Cpy-Py interstitial texture along contact of breccia and schist at lower contact.											
N17-06B	D. Lefort	110.3	128.4	SCH	Schist: Light grey, brown-purple, dark grey-green-black Qtz-Bio-Chl schist with gneissic Qtz bands, intercalated with microgranite dyklets, granitic dyklets and dykes. Granitic dykes are medium grained and leucocratic. Fine-grained intervals where foliation is not observed. Mineralization: Qtz-Carb-Cpy-Py-Po veinlets present up to 2cm thick, often with euhedral Qtz and interstitial Carb-Cpy-Py-Po. Cpy mineralization commonly occurs along the contact of schist and granitic dykes. Carb-py stringers-veinlets present throughout. Py stringers Alteration: moderate to strong phyllic alteration. Dark foliated intervals often altered to light brown-purple, light grey. Carbonate alteration throughout as weak overprint and carb veining.			carbonatew	phyllic 1	m	1.5	0.5				Asp	
N17-06B	D. Lefort						111.25	Qtz-Po veinlet, 50 deg tca, 1mm											
N17-06B	D. Lefort						112.2	Cpy-Py stringer, <1mm, irregular											
N17-06B	D. Lefort						112.53	Qtz-Carb-Cpy-Py veinlet, 1mm, 30 deg tca											
N17-06B	D. Lefort						113.7	Banded dolomite veinlet, 1.5cm, 75 deg tca											
N17-06B	D. Lefort						116.62	Qtz-Carb-Cpy-Ars veinlet, 2cm, 40 deg tca, euhedral Qtz											
N17-06B	D. Lefort					116.91	117.61	Granitic dyke, medium grained, leucocratic, strongly phyllically altered, py stringers											
N17-06B	D. Lefort						118.58	Qtz-Cpy-Py veinlet, irregular, along contact of schist and granitic dyke											
N17-06B	D. Lefort					118.6	120.15	Granitic dyke, medium grained, fragments of schist inclusions, wispy discontinuous py stringers throughout. Cpy Ars associated with dyke											
N17-06B	D. Lefort						118.65	Qtz-Cpy veinlet, 40 deg tca, 5mm near contact between schist and granitic dyke											
N17-06B	D. Lefort						119.1	Qtz-Cpy stringer, 1mm, 45 deg tca											
N17-06B	D. Lefort						120.25	Qtz-Cpy-Ars stringer, 1mm, 45 deg tca											
N17-06B	D. Lefort						121	Qtz-Carb-Cpy-Py veinlet, 35 deg tca, 3mm											
N17-06B	D. Lefort						122.95	Granitic dyklet, medium grained, 4cm, 30 deg tca											

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N17-06B	D. Lefort						123.32	Carb-Py + Chl-Chl?, 5mm, 65 deg tca											
N17-06B	D. Lefort						124.65	Granitic dyke, 6cm discontinuous Py stringers, carb veinlets											
N17-06B	D. Lefort					126.1	126.2	Pegmatitic Qtz-Feld dyke, granophyric texture, Qtz-Carb vein truncated by wispy Carb veinlets at upper contact											
N17-06B	D. Lefort					126.2	126.4	Microgranite, fine-grained foliated. Qtz-Cpy-Py veinlets at upper and lower contacts											
N17-06B	D. Lefort					127.4	127.7	Granitic dyke, leucocratic, fine-medium grained											
N17-06B	D. Lefort	128.4	174.7	SCH	Schist: Dark grey-green-black Qtz-Bio-Chl schist with gneissic Qtz bands, intercalated with microgranite dyklets, granitic dyklets and QFP dykes. Granitic dykes are medium grained and leucocratic. Microgranite dyklets are fine-grained and often foliated. Foliation fabric in the schist changes from low angle to 30 deg. QFP dykes have a grey-green groundmass with Qtz eyes and phyllically altered feldspar crystals. Mineralization: Qtz-Carb-Cpy-Py veinlets present up to 1.5cm thick, often with euhedral Qtz and interstitial Carb-Cpy-Py. Cpy mineralization commonly occurs along the contact of schist and granitic dykes. Carb-py stringers-veinlets present throughout. Py stringers. Alteration: Weak to moderate phyllic alteration.															
N17-06B	D. Lefort					128.36	128.77	Granitic dyke, medium grained, biotite (?) crystals <1mm											
N17-06B	D. Lefort					128.77	137.67	Dark schist, foliation parallel to core, with Granitic dykes											
N17-06B	D. Lefort					128.77	129.5	Sheeted py stringers 40-45 deg tca, <1mm with black halos, cut by carb stringers											
N17-06B	D. Lefort						129.75	Qtz-Carb-Cpy-Py veinlet, 30 deg tca, 1mm, with light halo											
N17-06B	D. Lefort						129.95	Qtz-Cpy-Py stringer, 30 deg tca, <1mm with light halo											
N17-06B	D. Lefort						132	Qtz-Cpy-Py veinlet, parallel tca 1 cm thick											
N17-06B	D. Lefort					132.83	133.13	Granite dyke, medium grained, py stringers, low angle Qtz band at lower contact											
N17-06B	D. Lefort						134.11	Cpy-Py stringer along broken core											
N17-06B	D. Lefort						134.31	Qtz-Cpy-Py veinlet, 1cm, very low angle											
N17-06B	D. Lefort						135.35	Qtz-Cpy-Py veinlet, 1.5cm, very low angle											
N17-06B	D. Lefort						135.77	Qtz-Py vein, 30 deg 5mm											
N17-06B	D. Lefort					137.67	138.51	Granite dyke, medium grained, py stringers, mod phyllic alteration											
N17-06B	D. Lefort					139.22	139.4	Granitic dyke											
N17-06B	D. Lefort					139.54	139.92	Granitic dyke											
N17-06B	D. Lefort					140.32	140.8	Granitic dyke, biotite, mod phyllic alteration											
N17-06B	D. Lefort					140.8	141.19	Microgranite dyklet, foliated, cut by Qtz veinlets											

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N17-06B	D. Lefort					141.66	142.32	Microgranite dyke with granite dyklet in the center, microgranite is fine-grained and foliated. Granite is medium grained, leucocratic											
N17-06B	D. Lefort					142.45	143.93	QFP dyke. 40-50% Feldspar crystals 1-mm, euhedral, phyllically altered. Qtz eyes, rare, 1-5mm, grey-green groundmass.											
N17-06B	D. Lefort						142.8	Shallow angle (15deg) Py stringer with perpendicular offshoots ~1cm long											
N17-06B	D. Lefort						143.1	Qtz-Cpy-Py stringer 30 deg tca, 2-3mm											
N17-06B	D. Lefort					143.93	143.98	Microgranite dyklet, foliated											
N17-06B	D. Lefort						145.75	Qtz-Cpy-Py stringer, 30 deg tca, <1mm											
N17-06B	D. Lefort						147.22	Qtz-Cpy-Py stringers 20 deg tca, 2mm											
N17-06B	D. Lefort					147.59	147.69	Microgranite, foliated cut by Carb vein											
N17-06B	D. Lefort						149.87	Granite dyklet, 4cm, medium grained											
N17-06B	D. Lefort					150.23	150.3	QFP dyklet, sparse feldspar crystals, dark brown-green groundmass, silicified?											
N17-06B	D. Lefort						152	Qtz-Carb-Po veinlet, 45 deg tca, 5mm											
N17-06B	D. Lefort					152.5	154.22	Interval with common Qtz-Py stringers with dark halos, Py blebs (rounded, 1-2mm) occurring adjacent to stringers in halos											
N17-06B	D. Lefort					155.12	156.53	Microgranite dyke with granite dyke in the center, microgranite fine-grained foliated, granite interval, medium grained phyllically altered with carb vein with Hem or fe-clay halo, Qtz-Tr Cpy veinlet within microgranite, 70 deg tca, 3-4mm											
N17-06B	D. Lefort					156.83	162.7	Sublith. Intercalated Dark grey-green schist of the main lithology with lighter green, brown-purple, light grey, light green phyllically altered intervals of schist. Some light purple-brown, whiteish light green intervals are very soft and flakey. A carbonate rich interval from 161.85 to 162.05 has common irregular blebs of Py											

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N17-06B	D. Lefort					163.71	164.04	Granitic dyke, medium grained											
N17-06B	D. Lefort					164.8	165.09	Microgranite dyke, foliated, cut by carb stringers, Qtz-Po veinlet @164.92m, 2mm, 80 deg tca											
N17-06B	D. Lefort						168	Qtz-Cpy-Py veinlet, 3mm, 55 deg tca											
N17-06B	D. Lefort						168.73	Qtz-Py-Tr Cpy veinlet, 45 deg tca, 6mm											
N17-06B	D. Lefort						169.95	Qtz-Carb-Cpy-Po-Py veinlet cutting Qtz veinlet, 65 deg tca, 5mm											
N17-06B	D. Lefort						170.62	Qtz Veinlet, 1.5cm wide with Po-Py-Tr Cpy in center											
N17-06B	D. Lefort						170.76	Qtz-Py-Tr Cpy veinlet, 75 deg tca, 6mm											
N17-06B	D. Lefort						170.9	Qtz-Py-Tr Cpy veinlet, 75 deg tca, 6mm											
N17-06B	D. Lefort						172.26	Qtz-tr Py-Tr Cpy											
N17-06B	D. Lefort						172.5	Carb--tr cpy-py stringer, 45 deg tca, 2mm											
N17-06B	D. Lefort						173.31	Qtz-Py-Tr Cpy veinlet, 70 deg tca, 5mm											
N17-06B	D. Lefort						173.76	Qtz-Py-Tr Cpy veinlet, 65-75 deg, 5mm											
N17-06B	D. Lefort	174.7	194.1	GRA	Granite: Leucogranite, medium grained weak to strong phyllic alteration. Qtz crystals can have brownish-grey hue in some intervals. Disseminated Py and needle-like brown-dark grey minerals (Chl) distributed heterogeneously throughout the interval. Thin intervals of schist present in unit. Microgranite interval at upper contact Mineralization: Trace amounts of Cpy-Mo in Qtz-Carb-Cpy-Py-Po-Mo veinlets. Usually high angle. Carb -Py stringers-veinlets throughout. Alteration: Weak phyllic alteration in upper 5m of unit. Strong phyllic alteration throughout the unit. Feldspars alter to white mica-clays, very soft.															
N17-06B	D. Lefort					174.72	174.85	Microgranite at upper contact between schist and granite.											
N17-06B	D. Lefort					174.85	179.5	Common high angle Qtz-Carb-Cpy-Po-Py-Mo stringers and veinlets throughout interval. Minor amounts of Cpy and Mo, occurrences of mineral are fairly small crystals (<1mm). Interval shows weak phyllic alteration.											
N17-06B	D. Lefort					182.1	182.39	QFP dyklet, sparse feldspar crystals, dark brown-green groundmass, brecciated with Carb infill											
N17-06B	D. Lefort	194.1	197.6	QFP	Qtz-Feldspar Porphyry: Tan grey groundmass, crowded white-tan, euhedral feldspar crystals (~1-5mm). Common Qtz-eyes Weak-moderate phyllic alteration. Mineralization: Py stringers (+Chl) throughout. Wispy and discontinuous. Carb-Py veinlet running parallel tca, truncated by fault gouge. Alteration: Moderate phyllic alteration throughout. Feldspar crystals altered to soft, white mica-clays.				carbonatew	phyllic 1	m									
N17-06B	D. Lefort	197.6	200.2	SCH	Schist: Dark purple gneissic schist. Qtz bands often folded in small "S" folds. Carb veinlets throughout. Minor Py mineralization observed. Alteration Moderate phyllic alteration throughout.				carbonatew	phyllic 1	m									
N17-06B	D. Lefort	200.2	209.2	GRA	Granite: Medium grained Granite with small <1mm interstitial dark minerals (biotite), weak to moderate phyllic alteration. Microgranite present, fine grained and foliated. Intervals of schist throughout, along the lower margin. Mineralization: Minor Qtz-Cpy-Py present, mostly Qtz-Py, Carb-Py stringers throughout.				carbonatew	phyllic 1	m									
N17-06B	D. Lefort						208.88	Qtz-Cpy-Py stringer											
N17-06B	D. Lefort	209.2	213.6	QFP	Qtz-Feldspar Porphyry: Tan grey groundmass, crowded white-tan, euhedral feldspar crystals (~1-5mm). Common Qtz-eyes Moderate phyllic alteration. Mineralization: Qtz-Carb-Cpy-Py veinlets present with trace Cpy. Brecciated Qtz-Carb-Py-Chl-Mo (?) veinlets, wispy. Carb-Py stringers throughout, high angle tca, sheeted often wispy. Alteration: Moderate phyllic alteration throughout. Feldspar crystals altered to soft, white mica-clays.				carbonatew	phyllic 1	m									
N17-06B	D. Lefort						210.17	Qtz-Carb-tr Cpy veinlet, 65 deg tca, 2mm											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort						212.95	Qtz-Carb-Py-Chl-Mo(?) breccia veinlet, mm sized angular clasts of Carb, with dark-grey-blue Qtz with disseminated Mo-Chl?											
N17-06B	D. Lefort						213.25	Qtz-Carb-Py-Chl-Mo(?) breccia veinlet, mm sized angular clasts of Carb, with dark-grey-blue Qtz with disseminated Mo-Chl?											
N17-06B	D. Lefort	213.6	219.9	SCH	Schist: Dark purple-brown, Qtz-Bio-Chl foliation. Mineralization: Qtz-Carb-Cpy-Py veinlets present, 45-65 deg tca. Carb-Py veinlets throughout. Alteration: Carbonate veinlets throughout. Weak carbonate overprint. Moderate phyllic alteration throughout. Strong metasomatic weathering of rock leading to very soft, flakey core.				carbonatew		phyllic	1 m							
N17-06B	D. Lefort						217.32	Qtz-Cpy 70 deg tca, 5mm											
N17-06B	D. Lefort						217.58	Sheared Py-Carb veinlet, wispy											
N17-06B	D. Lefort						218.6	Qtz-Cpy-Py stringer, 70 deg tca, 1mm											
N17-06B	D. Lefort						218.67	Qtz-Cpy-Py stringer, 70 deg tca, 1mm											
N17-06B	D. Lefort						219.2	Qtz-Cpy-Py 4mm, 45 deg tca											
N17-06B	D. Lefort	219.9	224.9	GRA	Granite: Medium grained Granite with small <1mm interstitial dark minerals (biotite, altered to sulfides, Py), moderate phyllic alteration. Thin microgranite interval present, fine grained, foliated with common Carb-Py stringers throughout. Mineralization: Qtz-Carb-Cpy-Py, Qtz-Py stringers and veinlets present, usually high angle. Alteration: Moderate alteration throughout, feldspars altered to white mica clays, soft and crumbly in parts. Small intervals are very soft and crumbly.														
N17-06B	D. Lefort					220.5	220.93	Microgranite with common Carb-Py stringers											
N17-06B	D. Lefort						221.12	Qtz-Carb-Cpy-Py stringer, 45 deg 1mm											
N17-06B	D. Lefort						221.32	Breccia vein, rounded Qtz clasts with carb infill, Py irregular blebs and stringers											
N17-06B	D. Lefort						222.13	Qtz-Cpy-Py veinlet, 75 deg 2mm											
N17-06B	D. Lefort						222.77	Qtz-Cpy-Py 40 deg tca, 1mm											
N17-06B	D. Lefort						224.33	Smeared Cpy-Py stringer											
N17-06B	D. Lefort	224.9	248.5	SCH	Schist: Light grey with purple-brown patches to dark green-black schist with gneissic Qtz bands and boudinages. Cut by granophyric dyklets. Foliation angle varies but is usually 20-30 deg tca. Mineralization: Qtz-Carb-Cpy-Py-Ars-(mo?) stringers and veinlets present. Alteration: Moderate phyllic alteration throughout. Upper 5m of unit is characterized by light grey schist with purple-brown patches. Tan-brown carbonate overprint in some intervals, carb veins throughout, varying orientation. Some low angle carb veins associated with fractured core and very soft, flakey intervals.																
N17-06B	D. Lefort						225.24	Qtz-Cpy stringer 80 deg tca, 1mm											
N17-06B	D. Lefort						225.36	Carb-Py-Chl, Qtz-Mo(?) veinlet, 2cm, Carb selvages with Chl-Py stringer in the center, Diss mo in selvages of Qtz veinlet											
N17-06B	D. Lefort						226.25	Qtz vein with irregular interstitial blebs of Bismuthinite (?) and Cpy, blebs are 1-3mm Qtz vein is 2.5cm thick, perpendicular tca, 1 metre sample						0.5					1
N17-06B	D. Lefort					226.5	227.75	Intervals of tan brown carbonate mineral, ankerite (?), wispy infilling texture											
N17-06B	D. Lefort						228.5	Qtz-Cpy-Py stringer, 45 deg tca, 2mm											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort						227.72	Cpy bleb, 1mm											
N17-06B	D. Lefort					228	236.9	Low angle carb veins, fractured core, sometimes soft weather core around fractures											
N17-06B	D. Lefort					240	240.79	Low angle carb vein, with Py blebs and clots throughout, wispy, sometimes brecciated margins											
N17-06B	D. Lefort						240.9	Pink carb vein (Dol), with Py blebs throughout, 2-3cm, 30 deg tca, MASSIVE vug with botryoidal carb mineralization inside.											
N17-06B	D. Lefort						241.62	Carb-Cpy-Py stringer, parallel tca, smeared											
N17-06B	D. Lefort	248.5	261.8	GRA	Granite: Medium grained granite, white-grey granite. Equigranular, euhedral feldspar crystals and interstitial Qtz crystals. Dark platy biotite crystals throughout (<1mm), altered to Chl. Qtz crystals cloudy white to grey. Mineralization: Qtz-Py stringers-veinlets common throughout, Py and marcasite occurs as blocky to irregular blebs. Stringers-veinlets occur in varying orientations, crisscross each other and are often sheeted. Py stringers, diffuse, discontinuous throughout. Qtz-Carb-Cpy veinlets present, low angle. Alteration: Weak phyllic alteration throughout. White mice-clays replace feldspar crystals. Weak carbonate alteration overprint. Fe-clay-hem alteration, replacing feldspar crystals, sometimes occurring around stringers.																
N17-06B	D. Lefort						249.62	Qtz-Carb-Cpy-Py veinlet 40 deg tca, 4mm											
N17-06B	D. Lefort						250.15	Qtz-Carb-Py-Ars? Veinlet,											
N17-06B	D. Lefort						250.71	Qtz-Carb-Cpy, 40 deg tca, 4mm, wispy											
N17-06B	D. Lefort	261.8	268.2	SCH	Schist: Deep purple schist with gneissic bands and boudinages of Qtz. Cut by granite and microgranite dykes. Mineralization: Qtz-Carb-Cpy-Py veinlets present. Cpy-Py-Chl veinlets cutting Qtz-Carb veinlet. Py stringers and disseminated Py throughout. Carb veinlets rare but present <45 deg tca. Alteration: Weak phyllic alteration, weak potassic alteration. Bio stringers and diss Py, towards upper contact. Cutting across Qtz bands, boudinages.														
N17-06B	D. Lefort					263.08	263.4	Granite dyke, white-grey Qtz, white feldspars, medium grey, Qtz veining with Chl selvages											
N17-06B	D. Lefort						264.2	Qtz-Carb-Cpy stringer, 75 deg tca, 1mm, light halo around stringer											
N17-06B	D. Lefort						264.63	Qtz-Cpy-Py veinlet, 45 deg tca, 4mm, Clear translucent Qtz											
N17-06B	D. Lefort						264.95	Granite dyklet, 4cm, medium grained											
N17-06B	D. Lefort						266.95	Chl-Cpy-Py veinlet (low angle) cutting Qtz-Carb (high angle) veinlet											
N17-06B	D. Lefort					267.54	267.73	Microgranite, weak foliation, cut by Qtz-Py stringers, wispy, often sheeted											
N17-06B	D. Lefort	268.2	273.3	QFP	Qtz-Feld Porphyry: Dark grey brown groundmass at upper and lower contacts (chill margins). Medium grey groundmass throughout, 1mm to 1cm sized zoned, rounded-euhedral feldspars, common Qtz eyes. Crystals make up ~30-40%. Contains some euhedral megacrysts !3.5cm, altered, zoned. Mineralization: Qtz-Carb-Cpy veinlets present. Disseminated Cpy- Po throughout unit. Cpy-Po occurs as blebs in the groundmass possibly replacing feldspar crystals (some sulfides are observed as inclusions within feldspar crystals. Similar mineralization to RVD17-01. Alteration: Weak phyllic alteration, feldspars altered to white mica-clays. Carb-+Py stringers throughout, with light carb halos.														
N17-06B	D. Lefort						268.72	Qtz-Carb-Cpy stringer											
N17-06B	D. Lefort						270.26	Cpy bleb rounded, 2mm, adjacent to Carb stringer											
N17-06B	D. Lefort						271.24	Qtz-Carb-Cpy stringer, 60 deg, 1mm											
N17-06B	D. Lefort						271.6	Cluster of disseminated Cpy-Po blebs, rounded-blocky, 1mm											
N17-06B	D. Lefort						272	Wispy Carb veinlet w Py selvages, Qtz+diss Mo?											

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N17-06B	D. Lefort						272.17	Cluster of disseminated Cpy-Po blebs, blocky, 1mm											
N17-06B	D. Lefort						273.09	Qtz-Cpy stringer, 65 deg <1mm											
N17-06B	D. Lefort	273.3	293.2	SCH	Schist: Light grey to dark purple schist with gneissic bands. Foliation varies from parallel to 40 deg tca. Cut by dykes of granite, microgranite and QFP. Mineralization: Po mineralization throughout the unit across all lithotypes, commonly associated with intrusions. Po is disseminated and occurs within Qtz-Carb-Po-Py veinlets throughout. Common Py stringers near the upper contact, varying orientations, irregular, often aligned with foliation. Alteration: Wispy stringers of biotite and Po-Py are observed, weak potassic alteration. Rare Ep crystals and stringers are present. Weak-moderate phyllic alteration present throughout.															
N17-06B	D. Lefort					273.7	274.32	Microgranite, weakly foliated in parts, Qtz-Py stringers throughout											
N17-06B	D. Lefort						275.5	smeared Cpy-Py stringer											
N17-06B	D. Lefort						276	Common Py stringers within											
N17-06B	D. Lefort						277.2	Ep veinlet											
N17-06B	D. Lefort						277.4	Biotite-Py stingers											
N17-06B	D. Lefort					277.7	279.1	Granite dyke, medium grained, cut by Qtz-Carb-Cpy-Po veinlets, and Bio stringers											
N17-06B	D. Lefort						277.98	Qtz-Cpy-Po lens											
N17-06B	D. Lefort						278.5	Carb-Py-Tr Cpy stringer, wispy, buggy, 35 deg tca 5mm											
N17-06B	D. Lefort						278.69	Qtz-Carb-Cpy-Po veinlet, 65 deg tca, 5mm											
N17-06B	D. Lefort						279.1	Qtz-Cpy-Po -Py-Bio veinlet, Qtz-Cpy-Po portion of veinlet branching out of cluster of Bio-Py											
N17-06B	D. Lefort					279.41	281.38	Granite dyke, inclusions of Schist, cut by Qtz-Carb-Po-Py veinlets throughout, often sheeted											
N17-06B	D. Lefort					281.75	282.66	QFP dyke. Dark brown, glassy, sparse crystals of Feldspar <1mm to 2mm cut by common Qtz-Carb stringers with light halos, Qtz-Carb-Cpy Veinlet present											
N17-06B	D. Lefort						282.05	Qtz-Carb-Cpy veinlet, 45 deg tca, 1cm											
N17-06B	D. Lefort					282.66	283.44	Granite dyke, medium grained cut by Qtz-Carb-Py and Py stringers											
N17-06B	D. Lefort					283.5	283.73	Granite and Microgranite dyklet, upper portion medium grained granite, lower portion a foliated microgranite separated by a 1cm thick schist layer											
N17-06B	D. Lefort						284	Microgranite, foliation aligned with schist foliation , 5cm thick, 45 deg tca											
N17-06B	D. Lefort						284.17	Cpy-Po-Py veinlet, 90 deg tca, 4-5mm											
N17-06B	D. Lefort						284.25	Ep stringer											
N17-06B	D. Lefort						284.42	Clot of Po, 1.5cm by 0.5cm, blocky											

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N17-06B	D. Lefort					288.64	289.4	Granite dyke, medium grained, cut by Qtz-Crb-Cpy-Po veinlets, concentrated between 289 to 289.4m											
N17-06B	D. Lefort						288.87	QTZ-Cpy-Po stringer. 65 deg tca, 1mm											
N17-06B	D. Lefort						289.13	Qtz-Cpy-Po veinlet, offshoot of low angle veinlet, zone with common Qtz-Po veinlets											
N17-06B	D. Lefort					289.4	291.1	Brecciated microfaulted interval, common bio stringers, Py-Po and Cpy-Po veinlets throughout											
N17-06B	D. Lefort						292.12	Granophyric dyklet cut by Qtz-Ser-Po veinlet, with Qtz-Cpy-Po offshoot within schist											
N17-06B	D. Lefort	293.2	296.3	GRA	Granite: Medium grained granite, white-grey granite. Equigranular, euhedral feldspar crystals and interstitial Qtz crystals. Dark platy biotite crystals throughout (<1mm), altered to Chl. Qtz crystals cloudy white to grey. Mineralization: Smeared Cpy-Po present (low angle veinlet?). Qtz-Carb-Py veinlets present. Py stringers, diffuse, discontinuous throughout. Alteration: Absent/weak phyllic alteration throughout. Weak propylitic alteration characterized by the presence of Qtz-Chl-Ep stringers throughout. Weak potassic alteration, interval with aligned biotite and magnetite crystals. Qtz-Carb-Py veinlet with Kspar halo present.															
N17-06B	D. Lefort						294.77	Qtz-Crab-Py with kspar halo											
N17-06B	D. Lefort						296.07	Smeared Cpy-Po adjacent to low angle Qtz-Carb-Py veinlet											
N17-06B	D. Lefort	296.3	330.3	SCH	Schist: Dark purple-black-brown schist, with gneissic Qtz bands and boudinages. Foliation, Qtz bands and boudinages are usually low angle. Qtz augens. Sugary textured foliated microgranite bands. Cut by granite dyklets. Mineralization: Qtz-Po-Cpy veinlets present. Diss Po throughout, mm blebs, irregular to blocky. Alteration: Weak phyllic alteration throughout, weak carb overprint abundant carb stringers. Abundant Py-Ser (?), Py-Chl, Chl-Ep veinlets throughout. Structures: Brecciated veins, fault gouge and soft flakey core in parts.					Propylitic	w	phyllic	1 w	1.5	0.1	0.1			
N17-06B	D. Lefort					297.66	297.76	Granite dyklet, 6cm, medium grained											
N17-06B	D. Lefort					298.1	299.15	Granite dyke, medium grained Qtz-Po veinlets present, Angular clasts of schist at lower contact											
N17-06B	D. Lefort						305.07	Ep stringer with Kspar halo?											
N17-06B	D. Lefort					305.75	305.8	Microgranite foliated, 25 deg tca											
N17-06B	D. Lefort						307.93	Qtz-Carb-Cpy-Po veinlet, 65 deg tca, 1cm											
N17-06B	D. Lefort						308.5	Qtz-Carb-Cpy-Po											
N17-06B	D. Lefort						309.8	Qtz-Carb-Cpy veinlet, 60 deg tca, 1cm with Kspar halo											
N17-06B	D. Lefort						310.45	Qtz-Chl-Py cutting Qtz-Py-Bio											
N17-06B	D. Lefort					311.5	311.95	Pegmatite dyke, cm sized Qtz-Feld crystals, cut by common Ep and Chl-Py stringers											
N17-06B	D. Lefort						313.8	Cpy-Po bleb from smeared diffuse low angle stringer?											
N17-06B	D. Lefort						316.51	Chl stringers with light carb halo											
N17-06B	D. Lefort					321.5	322.64	Granite dyke, medium grained, cut by Chl-py, Carb-Py stringers											
N17-06B	D. Lefort					322.88	323.88	Granite dyke, medium grained, cut by Chl-py, Carb-Py stringers											

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N17-06B	D. Lefort					324.78	325.01	Breccia vein, rounded to sub-angular clasts of granite, mm to cm sized, infill with dark-grey, black carb and Py infilling											
N17-06B	D. Lefort					325.01	325.6	Soft flakey interval of metasomatized schist											
N17-06B	D. Lefort					326.8	326.87	Wispy Qtz-Carb-py vein, 5cm, rounded mm to cm clots											
N17-06B	D. Lefort	330.3	344.5	GRA	Granite: Medium grained granite, white-grey granite. Equigranular, euhedral feldspar crystals and interstitial Qtz crystals. Dark platy biotite crystals throughout (<1mm), altered to Chl. Qtz crystals cloudy white to grey. Rare inclusions of schist clasts. Mineralization: Qtz-Carb-Cpy-Py veinlets present Qtz-Carb-Py veinlets present. Sulfosalt observed. Py-Carb stringers, diffuse, discontinuous throughout. Alteration: Absent/weak phyllic alteration. Qtz-Chl-Ep stringer present. Carb stringers throughout.				carbonatew		propylitic	w	1.5	0.1	0.1			
N17-06B	D. Lefort						331.85	Carb-Cpy-Py stringer, 70 deg tca, 1mm											
N17-06B	D. Lefort						332.64	Qtz-Carb-Cpy-Py stringer, 50 deg tca, 3mm											
N17-06B	D. Lefort					332.6	333	Sheeted Carb veinlets 40-50 deg tca, 1-5mm											
N17-06B	D. Lefort						335	Irregular Qtz-Carb-Cpy-Py veinlet, 4mm 60 deg tca											
N17-06B	D. Lefort						335.28	Sheeted Qtz-Cpy-Py, Qtz-Py stringers, 85 deg tca, 2mm											
N17-06B	D. Lefort						335.65	Qtz vein (1-2cm) with biotite selvages (1-2cm), 30 deg tca, microfaulted											
N17-06B	D. Lefort						340.92	Qtz-Carb-Cpy veinlet, 60 deg tca, 3-4mm											
N17-06B	D. Lefort						341.5	Low angle Qtz-Chl-Ep veinlet 2mm											
N17-06B	D. Lefort						343.33	small (<1mm) silver sulfosalt, irregular											
N17-06B	D. Lefort						343.36	Qtz-Carb-Cpy-Po-Py veinlet cutting Qtz veinlet, 45 deg tca, 5mm											
N17-06B	D. Lefort						343.5	Smeared Cpy-Po in interval with sheeted Qtz-Cpy-Po-Py 343.30 to 353.75m											
N17-06B	D. Lefort	344.5	347.5	SCH	Schist: Dark purple schist with minor gneissic Qtz bands and boudinages. Cut by Microgranite dyklets. Mineralization: Qtz-Carb-Cpy-Po-Py veinlets throughout. Cut by common carb stringers-veinlets throughout often with light halos. Alteration: Weak phyllic alteration. Weak carbonate alteration, carbonate stringers-veinlets throughout the unit.				carbonatew		phyllic 1	w	1.5	0.1	0.1			
N17-06B	D. Lefort						345.45	Qtz-Carb-Cpy-Po stringer, 25 deg tca, 1mm											
N17-06B	D. Lefort						345.7	Microgranite dyklet, foliated											
N17-06B	D. Lefort						346.95	Microgranite dyklet with banded Carb veinlets and Qtz-Cpy veinlets at upper contact, wispy discontinuous Py stringers throughout											
N17-06B	D. Lefort						347.37	2 Qtz-Cpy veinlets, 75 deg tca, 1mm											
N17-06B	D. Lefort	347.5	379.3	GRA	Granite: Medium grained biotite granite. Anhedral to subhedral Qtz and feldpsar crystals. 10-15% biotite crystals <1mm. Intervals of schist present. Mineralization: Qtz-Carb-Cpy-Po-Py stringers-veinlets throughout, often with Kspar halos, sometimes sheeted and usually high angle <45 deg tca. Veining: Chl-Ep+-Qtz stringers-veins present throughout. Varying orientation, wispy. Alteration: Phyllic alteration absent or very weak. Weak potassic alteration throughout. Kspar often occurring as halos around stringers and veinlets (Qtz-Carb-Cpy-Py-Po). Biotite+-Py veining present, wispy irregular stringers-veinlets. Weak propylitic alteration throughout, Chl-Ep veinlets common, wispy, usually low angle.				Propylitic w		Potassic	w	2.5	0.1	0.1			

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N17-06B	D. Lefort						348.83	Qtz-Carb-Cpy stringer 45 deg tca 1mm cutting Chl-Ep veinlet											
N17-06B	D. Lefort						348.92	Qtz-Carb-Cpy stringer with Kspar halo 70 deg tca, 1mm, cutting Chl-Ep stringer											
N17-06B	D. Lefort						349.2	Qtz-Carb-Cpy stringer with Kspar and biotite halo, 70 deg tca, 2mm											
N17-06B	D. Lefort						349.78	Qtz-Carb-Cpy stringer with Kspar halo, 75 deg tca, 1mm											
N17-06B	D. Lefort						350.55	Qtz-Carb-Cpy-Py stringer with Kspar halo, 75 deg tca, 1mm											
N17-06B	D. Lefort						351	Qtz-Carb-Cpy stringer with Kspar halo, 65 deg tca, 1mm											
N17-06B	D. Lefort					351.5	355.5	Intercalated intervals of schist black (Chl) and Granite											
N17-06B	D. Lefort						352.5	Biotite-Qtz alteration, 2cm sized patch											
N17-06B	D. Lefort						353.25	Qtz veinlet with bio selvages, 90 deg tca											
N17-06B	D. Lefort						353.34	Hem crystal, 1mm											
N17-06B	D. Lefort						353.5	Qtz-Bio-Tr Cpy diffuse veinlet-pod, Ep crystals											
N17-06B	D. Lefort						353.93	Qtz-Cpy stringer 90 tca 1mm											
N17-06B	D. Lefort					357	357.25	Schist interval, foliation 20 deg tca, biotite alteration at basal contact											
N17-06B	D. Lefort						358.1	Qtz-Carb veinlet 85 deg tca, with Bio and Kspar halo											
N17-06B	D. Lefort						358.45	Pod of Chl-Po, smeared low angle veinlet?											
N17-06B	D. Lefort					359.15	361.58	Schist interval, foliation 30 deg tca, biotite alteration at upper contact. Gneissic Qtz bands throughout											
N17-06B	D. Lefort						363.9	Qtz-Carb-Cpy stringer, 65 deg tca, 1mm kspar halo											
N17-06B	D. Lefort						364.08	Qtz-Cpy stringer, 70 deg tca, <1mm											
N17-06B	D. Lefort					364.1	370.5	Relatively fresh granite with common Qtz-Carb-Py veinlets with Kspar halos, Chl-Ep stringers, no Cpy mineralization observed											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort					370.5	371.18	Schist, dark-purple-brown, foliation 35 deg tca, common Qtz bands. Qtz-Py stringer cutting schist and granite at lower contact. Kspar alteration around the stringer in the granite, a light coloured halo around the stringer in the schist (Other lighter halos in previous schist units may have indicated weak Kspar alteration)											
N17-06B	D. Lefort						373.35	Qtz-Po veinlet, 65 deg tca, 1mm kspar halo											
N17-06B	D. Lefort						373.95	Qtz-Carb-Cpy-Py stringer, 60 deg tca, 1mm, Kspar halo											
N17-06B	D. Lefort						374.83	Bio-Py-Po-tr Cpy pod, disseminated											
N17-06B	D. Lefort						376.8	Bio veinlet cut by Py-Chl vein											
N17-06B	D. Lefort	379.3	419.1	SCH	Schist: Light grey-green to dark-green schist with gneissic Qtz bands and boudinages, Qtz infilling strain fractures. Cut by granite, microgranite and QFP dyklets. Mineralization: Qtz-Cpy-Py-Po present. Alteration: Ep crystals replace Qtz in bands and boudinages. Chl-Ep veinlets. Potassic alteration, Kspar halos around stringers in intrusive sections and light halos around stringers in schistose sections.				Propylitic	w	Potassic	w	1	0.1	0.1				
N17-06B	D. Lefort						381.1	Qtz-Carb-Cpy-Py veinlet, irregular, granular texture											
N17-06B	D. Lefort						382.4	Po smeared at nose of schist foliation											
N17-06B	D. Lefort						382.79	Wavy folds of schistose and gneissic Qtz bands											
N17-06B	D. Lefort						385.47	Cpy-Py-Chl stringer, 75 deg tca											
N17-06B	D. Lefort						386.4	Microfaulted Ep Qtz-Carb-Bio veinlet, 25 deg tca, 1cm											
N17-06B	D. Lefort					386.73	386.93	Foliated (?) Qtz-Feld dyke, weak phyllic alteration											
N17-06B	D. Lefort						387.65	Microfaulted granophyric dyklet, weak phyllic alteration											
N17-06B	D. Lefort					388.08	388.62	Microgranite, foliated cut by Qtz-Po stringers											
N17-06B	D. Lefort					388.89	389.23	Granophyric dyklet											
N17-06B	D. Lefort						390.54	Qtz-Carb-Po veinlet, 60 deg tca,2mm											
N17-06B	D. Lefort						393.33	Qtz-Cpy-Py stringer, 80 deg tca, 1mm											
N17-06B	D. Lefort					393.85	394.53	Biotite granite, ep crystals, Qtz-Cpy stringer with Kspar alteration											
N17-06B	D. Lefort					394.53	395.61	Microgranite dyke, schistose intervals, very fine grained to fine-grained.											
N17-06B	D. Lefort					395.61	396.35	Granite dyke with blocky, subangular schist clasts.											
N17-06B	D. Lefort							Qtz-Cpy-Py-Chl stringer with Kspar halo (?) within schist interval											
N17-06B	D. Lefort						397.29	Qtz-Bio veinlet with carb-hem center within microgranite dyklet											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-06B	D. Lefort					399.77	400.27	QFP dyklet, Grey-brown groundmass, common Qtz eyes (1-3mm), cut by common Qtz-Carb-Po-Py, One Cpy-bearing stringer											
N17-06B	D. Lefort						401.4	Qtz-Cpy-Py stringer, 75 deg tca, 2mm											
N17-06B	D. Lefort					404.13	404.77	Granite dyke, Qtz-Py veinlets with Kspar alteration halos											
N17-06B	D. Lefort					405.79	406.91	QFP dyke, Qtz eyes, euhedral feldspar crystals, rare diss Po, Py stringers											
N17-06B	D. Lefort						410.14	Carb-Hem-Py smeared											
N17-06B	D. Lefort						410.53	Brecciated Qtz-Carb-Cpy-Py											
N17-06B	D. Lefort					412.15	412.34	QFP dyklet, foliated! Feldspar crystals											
N17-06B	D. Lefort						413.44	Smeared Py, Tr Cpy											
N17-06B	D. Lefort						417.1	Microfaulted Qtz band cut by stringers											
N17-07	L. Bickerton	0	3.05	OVB															
N17-07	L. Bickerton	3.05	11.5	MGR	Lithology: Light grey to buff white/leucocratic fine-grained to fsp-porphyritic microgranite (MGR). Unit is extensively silicified (replacing most of groundmass), and weakly sericitized (affecting remnant feldspars). MGR is approx 70%qtz and remaining is feldspar (plag&ksp) that can occur as phenocrysts (2-4mm) or as intergrowths with qtz in groundmass. Alteration: Interval appears moderately to strongly SiO2-altered throughout and the feldspar phenocrysts that are visible are tpyically altered to fine grained sericite. Mineralization: Unit does not have disseminated sulfides but is weakly veined - predominantly by qtz, but some veins also contain FeOx (once sulfides?) Sulfides: 0.05% FeOx				iron	w	silica	s						Feo	0.05
N17-07	L. Bickerton	11.5	15.74	Metasomatic/other	Lithology: Dark green to deep green-grey actinolite-chlorite+/-mag replacement breccia (skarn?). Metasomatic unit likely is replacing a qtz-biotite+/-musc schist (YTT xenolith in microgranite?), as is seen in less altered parts of the interval. Actinolite and chlorite is coarse grained and pervasive throughout. Sporadically there is brecciating veins in the interval that carry qtz+hematite (oxidized sulfide?). Alteration: Most of interval is composed of secondary minerals - primarily actinolite and chlorite, which pervasively replace the YTT biotite-muscovite schist. Overprint of veining includes sericite-clay and chl in halo (SCC phyllic?) Mineralization: Veining and brecciation contains FeOx content that was likely sulfides in this interval. Veins (planar, 5/m, 0.1-1cm, 50-80tca) have qtz-FeOx infill, and are overprinted by late stringer veins of sericite-clay (8/m, irregular 40-50tca) Sulfides: 1% FeOx				iron	m	phyllic 1	m						Feo	1
N17-07	L. Bickerton	15.74	17.07	MGR	Lithology: Same unit as above actinolite skarn; light grey to buff white/leucocratic fine-grained microgranite (MGR). Unit is extensively silicified (replacing most of groundmass), and weakly sericitized (affecting remnant feldspars). MGR is approx 70%qtz and remaining is feldspar (plag&ksp) that can occur as phenocrysts (2-4mm) or as intergrowths with qtz in groundmass. This section has shear planes with fe-oxide and clay infill Alteration: Interval appears moderately to strongly SiO2-altered throughout and the feldspar phenocrysts that are visible are tpyically altered to fine grained sericite. Mineralization: Unit does not have disseminated sulfides but is weakly veined - predominantly by qtz, but some veins also contain FeOx (once sulfides?) Sulfides: 0.1% FeOx				iron	w	silica	s						Feo	0.1
N17-07	L. Bickerton	17.07	45.24	Metamorphic	Lithology: Dark grey-green qtz-fsp-biotite/chl gneiss to genissic schist (YTT metavolcanic/metamorphic) with foliation approx. 35tca. Gneissic bands range from 1-10cm, with leucocratic bands of qtz-feldspar and melanocratic bands of chlorite-biotite+/-amphibole(act-hbl?) and disseminated sulfides. Locally, interval has cross-cutting thick veins of qtz (e.g., 40.2-40.35m), dyklets of QFP (e.g., 35.25-35.75m) that contain minor hornfelsed xenoliths of YTT, less silicified fsp-phyric microgranite (e.g., 44.47-44.62m), and qtz-cemented hydrothermal breccia at contact with QFP unit below (i.e., 45.04-45.24m). Alteration: Interval appears weakly to moderately SiO2-altered and overprinted by a sericite-chlorite+/-clay (phyllic?) replacement of most feldspars and mafics in the hostrock, particularily in proximity to some veining. Mineralization: Most sulfides begin to be preserved in this interval, where both disseminated (pyr>asp) and veined sulfides occur throughout: 1. qtz-specular hem(after?)-pyr+/-asp, cpy w/ SiO2 halo. planar to brecciating, 5-25mm, 40tca, 2/m 2. pyr-qtz-ser+/-chl. irregular stringer to planar-breaking out into patchy replacement, 1-10mm, 35-55tca, 10/m Sulfides: 0.8% pyr, 0.5%asp, 0.01%cpy, 0.2%hem	35.25	35.75	QFP: dyklet of quartz-feldspar porphyry	phyllic 1	w	silica	m	0.8	0			asp	0.5
N17-07	L. Bickerton					40.2	40.35	thick vein (parallel to foliation) of bulk quartz											
N17-07	L. Bickerton					44.47	44.62	dyklet(?) of less silicified fsp-phyric microgranite (similar to unit at top of hole?)											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-07	L. Bickerton					45.04	45.24	Hydrothermal breccia with silica cement at contact with QFP below											
N17-07	L. Bickerton	45.24	46.39	QFP	Lithology: Dark to light grey sparsely- to moderately-crowded qtz-fsp-porphyry (QFP). Intrusion is composed of ~30% phenocrysts among a very-fine to microcrystalline/aphyric grey intermediate groundmass. Of phenocrysts, euhedtal to subhedral feldspar laths (2-5mm) make up ~70%, rounded qtz eyes (~1-3mm) ~20%, and disseminated fine-grained sulfide (pyr+asp) + clotty (~1cm) fine-grained sulfide blebs ~10% (pyr replacments?). Dyke cuts the core steep to the axis (~70-80tca), has a chill margin and affects the host rock with meter scale silicification/hofels(?) and HBX formation (directly above). Alteration: Interval appears weakly to moderately SiO2-altered, overprinted by a sericite-chlorite-pyrite (phyllic?) assemblage related to proximity to veining and fractures. Mineralization: Both disseminated (pyr>asp>cpy) and veined sulfides occur throughout: 1. qtz-pyr+/-asp, cpy(?CuOx staining...) w/ SiO2 halo. planar, 0.5-1cm, 20tca, 1/m 2. pyr-qtz-ser+/-chl. irregular stringer to planar-breaking out into patchy replacement, 1-10mm, 35-55tca, 10/m Sulfides: 3% pyr, 0.3%asp, 0.01%cpy				phyllic 1	w	silica	m	3	0			asp	0.3
N17-07	L. Bickerton	46.39	50.6	Metamorphic	Lithology: Similar to unit above QFP dyke; dark grey-green qtz-biotite gneissic schist (YTT metamorphic) with foliation approx. 40tca. Gneissic bands include 0.5-10cm leucocratic bands of qtz-feldspar as well as discontinuous qtz-veins (exposing foliation planes) and the dominant biotite-chlorite+/-amphibole layers (+/-disseminated sulfides). Interval is moderately silicified and altered, could be related to intrusive contacts above and below. Alteration: Interval appears weakly to moderately SiO2-altered and overprinted by a sericite-chlorite-pyrite (phyllic?) replacement of feldspars and most mafics in the interval. Mineralization: Sulfides in this interval are weakly disseminated (pyr) and found in moderately dense veining that locally breaks out into patchy replacements: 1. qtz-pyr-aspy. planar to irregular, 0.5-1cm, 30tca, 3/m 2. qtz-pyr+/-ser, hem, chl. stringer to discontinuous-breaking out into patches, 0.1-0.5cm, 25/m Sulfides: 3% pyr, 0.3%asp, 0.01%cpy, 0.2%hem				phyllic 1	m	silica	w	3	0			asp	0.3
N17-07	L. Bickerton	50.6	126.9	MGR	Lithology: Light grey to buff white/leucocratic fine-grained to fsp-porphyritic microgranite (MGR). Unit is silicified (replacing most of groundmass), and weakly sericitized (affecting remnant feldspars). Similar to top of hole, MGR is approx 60-70%qtz and feldspar (plag&ksp), which occurs as phenocrysts (2-4mm) or as intergrowths with qtz, makes up remainder of rock. Less altered version of intrusion is less porphyritic with sparsely disseminated fine to very fine sulfides (pyr>>asp) and a fsp dominant groundmass. More silicified sections appear more porphyritic - perhaps a product of groundmass/feldspar replacement-relic feldspar appear as phenocrysts? Top of interval contains rafts of YTT metamorphic xenolith, heavily silicified (50.6-52m). This interval also contains breccias with cement of qtz-sericite (phyllic?) and large fragments (5cm-1m) of heavily silicified YTT metamorphic and fine-grained microgranite (e.g., 62-67.5m). Below oxidation profile (i.e., ~93m), veining appears to increase in density as sulfides are preseved and unit is less silicified-groundmass more gritty/feldspar bearing. Alteration: Interval appears moderately to locally strongly SiO2-altered (particularily in haloes to veins) and feldspar is tpyically altered to fine grained sericite. Mineralization: Unit has patches of disseminated sulfides in less silicified part of MGR (pyr>asp>cpy) and is moderately veined - predominantly by qtz, some with FeOx (until ~93m, once sulfides?), pyr, asp +/- cpy, mo. These veins are overprinted by late sericite-clay+/-FeCarb(?). 1. qtz-pyr-asp+/-cpy, mo, FeOx/CuOx(in oxidized interval). planar to stockwork, 0.1-5cm, 15-40tca, 15/m. 2. ser+/- qtz, pyr (+FeOx in oxidized interval). planar to discontinuous and ladder veins, 0.5-1cm, 30tca, 3/m Sulfides: 1% pyr/mcs, 0.01%cpy, 0.02% Hem, 0.01% CuOx, 0.5% asp, 0.001%mo	50.6	52	Xenoliths of heavily silicified YTT metamorphic	phyllic 1	w	silica	m	1	0	0		asp	0.8
N17-07	L. Bickerton					62	67.5	Breccia with cement of qtz-sericite (phyllic?) and large fragments (5cm-1m) of heavily silicified YTT metamorphic and fine-grained microgranite											
N17-07	L. Bickerton					81.3	82.56	hydrothermal breccia with silica and FeOx cement (after sulfide?) Fracture surfaces have greasy black FeOx with crystal shape (pitch lim?).											
N17-07	L. Bickerton					95.8	98.52	interval is less oxidized, and vein density increases (continues to be denser veined down-hole. Veins contain qtz-pyr-mcs +/- aspy, cpy											
N17-07	L. Bickerton					108.3	108.4	8cm brecciating-open space vein with chalcdonic qtz fill and precipitated layers of pyr-cpy, as well as asp near core, and sericite in centre											

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N17-07	L. Bickerton					115.97	116.1	5-8cm vein of qtz-cpy-mo+/-bor(?deep red-purple-hem?), stib,) and overprinting, re-exposing pyrite.											
N17-07	L. Bickerton	126.9	132.5	QFP	Lithology: Light grey, crowded and turbulent qtz(+/-fsp) porphyry (QFP?). Intrusion, overall is composed of ~60% phenocrysts, although is locally sparsely crowded and locally densely crowded. Groundmass is very-fine to microcrystalline qtz-fsp intermediate intrusive and locally is grey silica-aphyric intrusive. Of phenocrysts, rounded to glomerophyric quartz eyes (1-6mm) make up ~65% and subhedral to anhedral/rounded and recrystallized-rim feldspar (3-12mm) make up ~35%; these feldspar typically have abundant sulfide inclusions. Accessory sulfides occur as disseminated/fine-grained pyr+asp (>>cpy), or as clotty (~1-3cm) fine-grained sulfide blebs (pyr/asp replacments?). Margins to dyke are more turbulent and appear to be a mixed hydrothermal (silica) and igneous (QFP with aphyric groundmass) breccia that has fragments of both Microgranite (above) and YTT metamorphic (below). Alteration: Interval appears weakly to moderately SiO2-altered throughout, accompanied by a weak to moderate sericite-pyrite assemblage (phyllic?). Mineralization: As in the above interval, veining carries sulfide mineralization, but disseminated and replacement sulfide becomes slightly more prominant (pyr/mcs>asp>>cpy). Veins: 1. qtz-pyr-asp+/- cpy w/ SiO2 halo. planar, 0.5-1cm, 70-90tca, 5/m 2. pyr-qtz+/-ser. irregular stringer to planar, 1-10mm, 25-30tca, 20/m Sulfides: 1% pyr, 0.8%asp, 0.02%cpy					phyllic	1	m	1	0.1			asp	0.8
N17-07	L. Bickerton	132.5	136.5	BRX	Lithology: Mixed interval where intrusive breccia with heterogeneous fragment content is accompanied by cross-cutting hydrothermal breccia. Fragments in breccia are dominantly heavily altered/silicified YTT metamorphic host rock (unit below) which are cross-cut/enveloped by silica saturated QFP, similar to the border phases of the above unit where phenocrysts are sparsely to moderately crowded and groundmass is composed of aphyric silica rich material (could be considered a xenolith-rich interval?). Silica breccias contain fragments of QFP and YTT host rock (e.g., 135.75-136.47), are locally cemented by sericite>silica (e.g., 135.4-135.64m) and can be mineralized by pyr+/-cpy, aspy as well (e.g., 133.5-133.7m). Alteration: Interval appears moderately to strongly SiO2-ser-pyr-altered throughout, likely due to hydrothermal brecciation ands the related alteration halo (phyllic). Mineralization: As in the above interval, veining carries sulfide mineralization, but disseminated and replacement sulfide becomes more prominant in this interval (related to breccia cement and veins cross-cutting heterogeneous host-rocks, i.e., fragments). The order of sulfide abundance is similar to the ret of the hole (pyr/mcs>asp>>cpy). Veins: 1. qtz-pyr-asp+/- cpy w/ SiO2 halo. planar, 0.5-1cm, 70-90tca, 10/m - locally part of HBX cement? 2. pyr-qtz-ser+/-chl. irregular stringer to planar-breaking out into patchy replacement, 1-10mm, 25-30tca, 20/m Sulfides: 2% pyr, 1.5%asp, 0.1%cpy	133.45	133.65	coarse aspy associated with cpy-pyr-silica in veins and HBX cement			phyllic	1	m	2	0.1			asp	1.5
N17-07	L. Bickerton	136.5	157.6	Metamorphic	Lithology: Dark grey-green qtz-biotite gneissic schist (YTT metamorphic) with foliation approx. 30-45tca. Gneissic bands include 0.5-10cm leucocratic bands of qtz-feldspar as well as discontinuous qtz-veins (exposing foliation planes with silicified halo) and the dominant fine-grained biotite-chlorite+/-amphibole(act-hbl) layers with disseminated sulfides. Closer to the upper and lower contacts the unit becomes more strongly altered and brecciated (silicified and sericitized). Alteration: Interval appears weakly to moderately SiO2-sericite-pyrite altered (phyllic?). Mineralization: Sulfides in this interval are weakly disseminated (pyr) and found in veining that increases density in proximity to the above and below contacts. Veins typically are better expressed in felsic gneissic layers and as a result appear discontinuous: 1. qtz-pyr-asp+/- cpy w/ SiO2 halo. planar, 0.5-3cm, 70-90tca (locally cuts felsic foliation layers orthogonally), 2/m, denser near upper contact 2. pyr-qtz+/-ser. irregular stringer to planar and re-exposing, 1-10mm, 15-20tca, 10/m 3. Cal+/-FeCarb. planar to irregular, 0.1-1cm, 20-25tca, 3/m Sulfides: 1% pyr, 0.6%asp, 0.01%cpy	137	137.8	thick veins containing coarse arsenopyrite cutting core @ ~70-90 tca	carbonatew		phyllic	1	m	1	0			asp	0.6
N17-07	L. Bickerton					154.3	155	hydrothermal breccia, cement of silica +/-ser with sericitized fragments of YTT.											
N17-07	L. Bickerton	157.6	159.2	QFP	Lithology: Dark grey, sparsely-crowded qtz-fsp porphyry (QFP). Intrusion is composed of ~20-30% phenocrysts and groundmass is darkgrey silica-aphyric intermediate material. Of phenocrysts, euhdral to subhedral feldspar laths (3-5mm) make up ~55% and rounded to glomerophyric quartz eyes (1-6mm) make up ~45%. Accessory sulfides occur as a minor component apart from the local hydrothermal breccias that are cemented by silica and sulfide (e.g., 158.8-159.15m). Alteration: Interval appears moderately to strongly silicified, feldspar pheocrysts are typically altered to sericite and/or replaced with sulfides (phyllic assemblage? QSP). Mineralization: Veining and localized hydrothermal breccia cement carries sulfide mineralization (pyr/mcs>>asp=cpy): 1. qtz-pyr+/- asp, cpy w/ SiO2 halo. planar, SiO2 amorphous, 0.5-1cm, 60tca, 4/m - part of HBX cement? 2. pyr-qtz+/-ser in selvage. irregular stringer to planar-breaking out into patchy replacement, 1-10mm, 30tca, 8/m Sulfides: 1% pyr, 0.05%asp, 0.01%cpy				phyllic	1	m	silica	s	1	0			asp	0.05
N17-07	L. Bickerton	159.2	207.5	Metamorphic	Lithology: Similar to interval above QFP: dark grey-green to brown qtz-biotite gneissic schist (YTT metamorphic) with foliation approx. 35tca. Gneissic bands include 0.5-5cm leucocratic bands of qtz-feldspar as well as discontinuous qtz-veins (exposing foliation planes with silicified halo) and the dominant fine-grained biotite-chlorite+/-amphibole(act-hbl) layers with disseminated sulfides. Alteration: Interval appears weakly chl+/-alb altered (prop?) with localized moderate phyllic overprint (QSP, e.g., 163-167.98m, 203.6-203.9m) which tends to carry asp mineralized veins (e.g., 166.7-166.8m). Mineralization: Sulfides in this interval are disseminated (pyr>cpy) in the gneissic layers, and found in veining: 1. qtz-pyr-asp+/- cpy w/ SiO2 halo. planar, 0.5-3cm, 50-70tca, 2/m, denser in QSP phyllic alteration zones. 2. pyr-qtz+/-ser. irregular stringer to planar and re-exposing, 1-10mm, 15-20tca, 15/m 3. Cal+/-FeCarb. planar to irregular, 0.1-1cm, 20-25tca, 1/m Sulfides: 0.5% pyr, 0.2%asp, 0.05%cpy	163	167.98	moderate phyllic (qtz-ser-pyr) overprint (some clay as well after ser?)	phyllic	1	m	propylitic	w	0.5	0.1			asp	0.2

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N17-07	L. Bickerton					166.7	166.8	2-3cm vein of pyr and coarse arsenopyrite.											
N17-07	L. Bickerton					203.6	203.9	moderate to strong phyllic (qtz-ser-pyr) overprint (some clay as well after ser?)											
N17-07	L. Bickerton					204	207.5	low angle intrusive angle of QFP dyke (near parallel tca)											
N17-07	L. Bickerton	207.5	210.8	QFP	Lithology: Dark grey, sparsely-crowded qtz-fsp porphyry (QFP). Intrusion is composed of ~20-30% phenocrysts and groundmass is darkgrey silica-aphyric intermediate material. Of phenocrysts, sub-hedral to rounded and locally glomerophyric quartz (1-10mm) make up ~60% and euhdral to subhedral and recrystalized/rimmed feldspar laths (3-10mm) make up ~40%. Accessory sulfides are disseminated throughout the unit (pyr>>cpy). Alteration: Interval appears strongly silicified, and feldspar pheocrysts are typically altered to sericite and/or replaced with sulfides (phyllic assemblage? QSP). Mineralization: Veining carries sulfide mineralization (pyr/mcs>>cpy=mo) as well as dissemination and replacments (associated with microfractures and veins?: 1. pyr-qtz+/-mo, cpy. irregular stringer to planar and discontinuos, 1-10mm, 30tca, 10/m 2. cal-carb+/-anh(?), mo. planar to undulose, 0.5-4cm, 10-15tca, 1/m. Sulfides: 0.5% pyr, 0.01%cpy, 0.001%mo				phyllic 1	m			0.5	0		0			
N17-07	L. Bickerton	210.8	259.1	Metamorphic	Lithology: Similar to interval above QFP: dark grey-green to brown qtz-biotite gneissic schist (YTT metamorphic) with foliation approx. 40tca but grading to 10-15tca by EOH. Gneissic bands include 0.5-5cm leucocratic bands of qtz-feldspar as well as discontinuous qtz-veins (exposing foliation planes with silicified halo) and the dominant fine-grained biotite-chlorite+/-amphibole layers with disseminated sulfides. Interval is intruded by thin to meter scale dykes of light grey fine- to medium grained granite (e.g., 216-218.3m, 220.6-221.5m, 223.2-224.7m, 237.6-239.7m) that impart silicic alteration halo to host rock and can be densely veined and mineralized. Alteration: Interval appears weakly chl+/-alb altered (prop?)throughout, and locally there is strong to intense silicification. Overprinting these assemblages are patchy intervals of moderate to strong phyllic (qtz-ser-pyr+/-chl) alteration (e.g., 222-223m, 226.4-227m, 234.8-236m) that tend to carry qtz-pyr+/- asp veins. Mineralization: Sulfides in this interval are disseminated (pyr>>cpy) locally in bio-rich gneissic layers and is also found in veining, a feature which increases density in the patchy phyllic alteration intervals and in the intrusive units (see subs): 1. qtz-pyr +/- asp, cpy. planar to undulose and discontinuous, 0.5-5cm, 75tca, 0.5/m. 2. pyr-mcs-qtz+/-chl. irregular stringer to planar and re-exposing, 1-10mm, 15-20tca, 20-30/m 3. Cal-FeCar+/-pyr, cpy. planar to irregular and branching, 0.1-2cm, 20-25tca, 5/m Sulfides: 0.8% pyr/mcs, 0.05%cpy, 0.1% asp, 0.001% mo	215.95	218.34	GRA: granite dyke - light grey, medium to fine-grained granite. Moderately silicified + disseminated sulfide replacements and discontinuous sulfide veining	phyllic 1	w	silica	m	0.8	0.1		0	asp	0.1
N17-07	L. Bickerton					220.6	221.5	GRA: granite dyke - light grey, medium to fine-grained granite. Moderately silicified											
N17-07	L. Bickerton					223.24	224.66	GRA: granite dyke - light grey, medium to fine-grained granite. Moderately silicified with YTT xenoliths throughout											
N17-07	L. Bickerton					226.4	227	QSP+chl alteration with veins of coarse pyrite +/- asp, cpy											
N17-07	L. Bickerton					230.3	230.31	Veins with trace arsenopyrite											
N17-07	L. Bickerton					232.2	232.4	Microgranite dyke											
N17-07	L. Bickerton					234.8	236	phyllic alteration and thick (5-10cm) veins of qtz-pyr-asp-cpy											
N17-07	L. Bickerton					237.6	239.7	sporadic thin (<10cm) dyklets of light grey medium-grained and moderately silicified to fsp-porphyritic granite (GRA)											

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N17-07	L. Bickerton					240.6	242	sporadic thin (<10cm) dyklets of light grey medium-grained and moderately silicified to fsp-porphyritic granite (GRA)											
N17-07	L. Bickerton					247.6	248.01	GRA: granite dyke - light grey, medium to fine-grained granite. Moderately silicified											
N17-07	L. Bickerton					251.8	255.45	GRA: granite dyke - light grey, medium to fine-grained granite. Moderately silicified with YTT xenoliths throughout											
N17-07	L. Bickerton					256.6	256.9	GRA: granite dyke - light grey, medium to fine-grained granite. Moderately silicified											
N17-07	L. Bickerton					257.4	257.41	vein carrying arsenopyrite											
N17-07	L. Bickerton					257.5	257.7	Microgranite dyke											
N17-07	L. Bickerton					258.38	258.39	vein carrying arsenopyrite											
N17-08	L.Bickerton	0	3	OVB	ncr														
N17-08	L.Bickerton	3	92.84	MGR	Lithology: Light grey to buff white, fine-grained, inequigranular/fsp-phyric granite ("microgranite"-MGR). Intrusive is approximately 50-60% fine-grained anhedral to interstitial quartz and remainder is dominantly subhedral to euhedral alkali feldspar that commonly occur, throug the bulk of the intersection as 2-4mm phenocrysts in f.g. qtz-fsp groundmass; this texture disappears within 3m of lower contact, where unit becomes more equigranular and qtz-fsp mineral alignment gives granite an igneous fabric (foliation?). What few accessory minerals are present have been replaced by alteration and/or the oxidation profile which reaches beyond the lower contact. Alteration: A phyllic alteration assemblage (mostly silicification+/-sericitization; FeOx commonly associated with these in veins and haloes - replacment of pyrite?) occurs with variable strength through the unit, typically increasing intensity near veins and brecciation. The later oxidation profile ("Iron" alteration overprint) reaches depths beyond the lower contact, replacing most/all sulfides that were within veins or disseminated. Mineralization: As noted above, oxidation of the unit to depth has replaced most sulfides with Fe-oxides that are typically hydrated to limonite. Veinlets and disseminated blebs of pyrolusite(?)/MnO occur sporadically through the MGR. Phyllic veining and brecciation occur locally (e.g., 37.5-37.7m, 44.2-45.2m, 51.82-52.2m, 57.9-58.2m) Sulfides: 0.03% pyr, 0.5% Hem/FeOx	4.37	5	Sericite-qtz enriched phyllic alteration patch	Iron	w	phyllic	1 m	0				hem	0.5
N17-08	L.Bickerton					8.9	9.14	Sericite-qtz enriched phyllic alteration patch											
N17-08	L.Bickerton					37.5	37.68	Increase in density of qtz-ser-pyr(->FeOx?) veining to ~15/m											
N17-08	L.Bickerton					44.2	45.2	Increased density of qtz-ser-pyr(->FeOx?) veining to ~15/m											
N17-08	L.Bickerton					48.77	48.78	core reduced from HTW to NTW											
N17-08	L.Bickerton					51.82	52.2	QSP breccia (pyrite-->FeOx?). Angular fragment (0.3-4cm) supported with a cement that is SiO2>sericite>FeOx(-OH)											
N17-08	L.Bickerton					57.9	58.2	QSP breccia (pyrite-->FeOx?). Similar to above with angular fragments (0.3-4cm) and cement of FeO>SiO2>ser											
N17-08	L.Bickerton					65.3	71	increased silicification (moderate/strong)											

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N17-08	L.Bickerton					67.7	68	Thick vein (3-4cm) of qtz-hematite with hematite stained halo (replacement of pyr or other sulfide?)											
N17-08	L.Bickerton					74	76	Hydrothermal breccia/replacement that is dominantly limonite (after a sulfide?) and qtz. Fragments are dominantly MGR but include angular pieces of qtz veins.											
N17-08	L.Bickerton					80.7	82	intermittent sericite rich 2-4cm brecciating veins											
N17-08	L.Bickerton					90.4	92.84	MGR loses feldspar-phyric character and appears to gain a fabric in the aligned qtz-fsp matrix - similar to MGR dykes seen elsewhere in the deposit.											
N17-08	L. Wilson	92.84	115	Metamorphic	Lithology: Grey-green variably altered and mineralized mottled/brecciated Yukon Tanana metamorphic rock (YTT). Lithology is moderate-strongly metamorphosed and appears schistose in some patches, and qz bands visible. Alteration: Phyllic alteration (primarily patches of silicification +/- sericitization, with blobs of silica and py veins). Bands of Qz observed, and pyrite stringers throughout. Fe-Ox occurs throughout, appears to be after Py stringers and associated with veins. Nearing the lower contact, minor carbonate alteration picks up. Mineralization: Pyrite stringers occur thoughout the unit, with some having gone to Fe-Ox(?), and occuring as clots in larger veins as well. Clots of Aspy observed, intergrown in disarticulated veins of Py. Dull brown marcasite throughout as clots in veins, and pyrolusite(?)/MnO clots occur in veins associated with an increased Fe-Ox overprint. Sulfides: 0.2% Py, 2% Hem/FeOx, 0.01% Aspy				Iron	m	phyllic 1	m	0.2				Lim	2
N17-08	L. Wilson					96.36	96.96	Py veining (1cm wide) within this interval, low angle (15CA), effectively a sulphide breccia zone with silicified fragments (Qz frags and grey silcified wallrock), with Py and limonite matrix. Contains trace clots of Asp.											
N17-08	L. Wilson					96.63	96.65	Aspy clots on nose of Py vein & breccia, along margin											
N17-08	L. Wilson					96.98	97.64	Sulphide Hbx matrix replaced by limonite and grey qz											
N17-08	L. Wilson					98.48	98.49	Dark grey blue clot of metallic sulphide mineral, could be tarnished Asp											
N17-08	L. Wilson					99.57	101.5	Fabric of metavolcanics observed, 30-55CA											
N17-08	L. Wilson					103.46	105.16	Sections of HBx throughout interval, dominantly Py rich (fg and larger clots) and lim-replaced											
N17-08	L. Wilson					105.99	106.02	Trace clots of Aspy and Cpy observed in unastamosing Py veinlet											
N17-08	L. Wilson					107	107.54	Brecciated, with Hem, Spec Hem & Lim as matrix and silicified frags. Disarticulated Py veinlets throughout											

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N17-08	L. Wilson					112.4	115	Moderate carb alt of meta unit towards lower contact with MGR. Lesser Py overall, only present in erratic stringers											
N17-08	L. Wilson	115	152.1	GRA	Lithology: Predominantly grey fine-medium grained equigranular Bt Granite, with minor intercalations of MGR(?). Made up of 45% interstitial Qz(? In weathered sections it remains translucent, though it is somewhat softer than Qz typically is...), 40% sub-euh Ksp, 15% sub ragged Bt, and minor fg euh Plag visible. Biotite is visible in unaltered sections, and otherwise altered to Chl or Ser. Texture is predominantly the more equigranular GRA across, though there are minor intervals that more closely resemble the MGR - could be alteration induced texture similarities? Alteration: Phyllic alteration (sericitization +/- silicification and minor fg diss Py) across interval, with sections of very minor alteration observed (Chl altering Bt). FeOx overprint in the upper section of unit, with lim replacing much of mineralogy but maintaining xtl shape. Also lim replaced sulph stringers observed in this upper section. Minor carb alteration (likely atfter phy) in some patches. Feldspars altered to clay in some of those fresher sections alongside minor fractures filled with grey qz. Mineralization: Sporadic Py stringers throughout unit, with trace-minor disseminated Py, and minor interval with more dendritic fg Py. Trace Cpy and Aspy observed as blebs or clots in Py +/- Qz veinlets. Sulphides: 0.05% Py, 0.01% Cpy, 0.01% Aspy				Iron	m	phyllic 1	m	0.1	0			Asp	0.01
N17-08	L. Wilson					116.03	116.04	Trace Cpy observed in Py veinlet (60CA)											
N17-08	L. Wilson					122.49	122.97	Clot (2cm) of Aspy in Qz-Py veinlet (10CA))											
N17-08	L. Wilson					126.22	134.1	Dark grey dendritic masses of Py, typically surrounding stringers in interval of increased minor carb alt											
N17-08	L. Wilson					140	143	Fresher section of GRA, trace-minor Chl alt of Bt, with primary Bt up to 15%, elongate and somewhat shredded											
N17-08	L. Wilson					143.8	146.5	Moderate-strong pervasive silicification and minor bleaching across interval											
N17-08	L. Wilson	152.1	199.3	Meta morph ic	Lithology: Grey-green foliated metamorphic unit of the Yukon Tanana, with minor intersections of fg GRA &/or MGR(?). Contacts with GRA/MGR are sharp, with little to no brecciation, upper interval of YT could be an entrained raft? Layers of YT exhibit more Bt-rich (minor) and more Chl-rich layers or bands, and more silicious Qz-rich layers. Orientation of layers range across the board, from 15-70CA. Alteration: Phyllic (ser + chl + sil, minor py), with minor secondary thin hairlike Bt stringers occuring in some layers or bands. Sections of MGR exhibit strong silcification. Trace-patchy mod Fe-clay alteration, occuring parallel to bands or layers. Weak-moderate magnetism observed in few intersections of darker Chl-rich regions, Prt or Mag? No fg disseminations visible... Trace Ep observed in a few veins with Qz. Mineralization: Py str moderately common, with Py clots in Qz-Chl veins through both YT & MGR. Fine disseminated Py observed as well. Trace Cpy intergrown with Py in few veinlets. Minor Prt or Mag in darker grey-green layer, vfg. Sulphides: 0.05% Py, 0.01% Cpy, 0.02% Mag, 0.01% Sph				phyllic 1	m			0.1	0			mte	0.02
N17-08	L. Wilson					154	158	GRA section with mod phy alt, Bt has completely gone to fg Chl. Sharp upper and lower contacts with YT.											
N17-08	L. Wilson					161.05	161.1	Trace Cpy intergrown with Py in veinlet											
N17-08	L. Wilson					168.58	169.27	Minor finger of MGR, minor erratic Py stringers throughout											
N17-08	L. Wilson					176.9	180.9	Increased zone of moderate silicification + sericite, above a minor fault/shear zone											
N17-08	L. Wilson					179.62		Trace Cpy intergrown with Py in veinlet											
N17-08	L. Wilson					176.1	176.9	Dark grey-green Chl-altered layer with vfg Mag (or Prt)											

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N17-08	L. Wilson					191.3	191.42	Aplite/MGR? dyke with few specks of Sph @ 191.39m within a Qz glob, with Py rimming margins of Sph											
N17-08	L. Wilson					179.7	180	Few Qz-Ep veinlets observed, somewhat disarticulated and with unastamosing margins											
N17-08	L. Wilson					193.55	194.4	MGR dyke, with translucent Qz veinlets & Py stringers throughout. Margins are sharp, with some bleaching of underlying YT at lower contact.											
N17-08	L. Wilson	199.3	221	GRA	Lithology: Light buff-grey fine-grained granite (Resembles MGR, not 100% confident it's not MGR... Could be the missing link between the two units? Later edit: both units are the same, but MGR is a local textural name. Originate from the same granitic body). Flecks of Chl-replaced Bt throughout, with some zoned Ksp xtls visible. Relatively homogeneous texture across unit, with roughly 50% qz and 50% felds, and minor sections with vfg aligned plag xtls. Alteration: Weak phyllic alteration (minor ser + chl + py stringers). Chl has completely replaced any primary Bt or other accessory minerals, and some sericitization of feldspars. Thin stringers of yellow sericite observed towards the end of interval Mineralization: Minor across unit, with minor Py and trace clots of Mo, Cpy and Asp observed. Py stringers up to 0.05% and appear to be somewhat arranged at 45CA. Pyrite occurs as marcasite towards end of interval, as disseminated flecks and minor stringers. Few small clots of Mo observed, with little to absent association to stringers. Very trace Cpy observed intergrown with Py in Qz-Py veinlets. Aspy occurs as minor clots in Qz veinlet, with very trace Cpy rimming Asp grains. Sulphides: 0.1% Py, 0.02% Mo, 0.01% Cpy, 0.01% Asp				phyllic	1	w	0.1	0		0	Asp	0.01
N17-08	L. Wilson					208.5		1mm bleb of Mo, nearby a dark grey/brown fg stringer of Py											
N17-08	L. Wilson					211.3		2mm bleb of Mo, with nearby disseminated Py and marcasite											
N17-08	L. Wilson					215.2		7mm long ameoboid bleb of Mo, appears to be along a stringer filled with yellow ser.											
N17-08	L. Wilson					219.8	219.89	Veinlet (.5cm) with 2mm clots of Aspy (? Darker sooty grey than the typical silvery Asp) and trace Cpy intergrown.											
N17-08	L. Wilson					210.2	221	Interval with increased yellow ser +/- chl veinlets											
N17-08	L. Wilson					216.5	221	Increase in marcasite stringers and disseminations towards lower contact with YT											
N17-08	L. Wilson	221	232.9	Metamorphic	Lithology: Grey-green banded metamorphic unit of the Yukon Tanana. Lithology is similar as seen up hole. Qz, Chl and Bt observed as discrete bands, with sections of a fabric appearing as almost laminations the Qz and ser is so fine grained and lineated. Alteration: Phyllic assemblage (ser + sil + chl + minor py), with bands of Bt observed. Mineralization: Increased mineralization in this unit, with minor Py and trace Cpy, Mo, Asp and Po observed as blebs and clots in Qz-Py veinlets. The Qz-Py veinlets are typically thin (sub cm), undulatory, and are more translucent Qz +/- minor Cal. Cpy stringer observed crosscut by a 1cm thick Qz-Cal veinlet carrying transported Po and possibly Aspy. Sulphides: 0.05% Py, 0.02% Cpy, 0.02% Aspy, 0.01% Mo, 0.01% Po				phyllic	1	m	0.1	0	0	0	Asp	0.02
N17-08	L. Wilson					223		Qz-Py veinlet (.5cm) with intergrown clots of Asp and trace fg Cpy (50CA)											
N17-08	L. Wilson					223.45		Qz veinlet (.5cm wide) with entrained clot of Po and minor Py, observed crosscutting a Cpy stringer											

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N17-08	L. Wilson					229.35		Translucent Qz-Py veinlets (40CA) containing trace Cpy + Aspy, observed xcut and offset along Py stringer.											
N17-08	L. Wilson					230.95	231.8	Interval of increased Bt banding in YT, with silicious blobs or clots at 231.60m.											
N17-08	L. Wilson	232.9	272.5	MGR	Lithology: Light grey-green vfg porphyritic feldspar microgranite. Some fg subhedral fg Kspar up to 10% visible, otherwise unit is comprised of 45% plag and 45% Qz. No obvious fabric observed in unit, though there could be a subtle alignment of plag xtls at 60CA, homogenous for remainder of hole. Alteration: Overall alteration is weakly phyllic (sericitization + minor Chl + minor Py), with increased alteration haloes surrounding some Qz-Py veins and veinlets. These vein envelopes are typically a dull pistachio-medium green (Ep +/- green Ser +/- fg Chl +/- minor Sil) and extend 3-7cm in both directions outward of the vein margin. Blotches of diss Py increase in these green envelopes as well. Kspars often zoned and replaced by green Ser or Ep(?), as well as commonly coating fracture surfaces and occuring in veinlets. Mineralization: Minor Py disseminated, tends to increase in light green Ep-Ser-Chl-Sil envelopes surrounding Qz-Py veins. Many of these veins contain Asp, sometimes intergrown with Py, otherwise dominantly a Qz-Asp vein. Py stringers (dominantly Marcasite) occur throughout unit, typically around 30CA and 65CA. Trace Cpy occurs in veinlets intergrown with Py and disseminations, and trace sulphosalts (dark grey-blue metallic) observed as both 1mm disseminated clots and undulatory hairline short stringers (1cm). A couple instances of questionable Bornite observed, with dark blueish-purple-black colour and blueish streak Sulphides: 0.05% Py, 0.05% Asp, 0.03% Cpy, 0.01% Mo, 0.01% Bo(?), 0.01% Sulphosalts				phyllic	1	m	phyllic	1 w	0.1	0		0		Asp	0.05
N17-08	L. Wilson					238.56		Trace Cpy intergrown with Py in Qz veinlet											
N17-08	L. Wilson					245.85		Qz-Asp-Py veinlet (55CA) with trace Cpy observed crosscutting a 1cm-wide Qz vein (40CA) with minor Py clots. Qz-Asp-Py veinlet also contains dark bluish-black non-metallic clot with a blueish-black streak (Bornite?)											
N17-08	L. Wilson					247.15		1cm-wide Qz-Asp-Py vein											
N17-08	L. Wilson					240.79	241.6	Interval of increased alteration of the Ep-Ser-Chl-Sil assemblege surrounding veinlets											
N17-08	L. Wilson					249.52		Qz-Py +/- Cal veinlet (45CA) contains trace Cpy blebs, and dark black non-metallic clots (blackish streak, not likely Sph as it was not soluble in HCl)											
N17-08	L. Wilson					249.85	249.94	Asp-Py stringers to veinlets - a few xtls almost looked bladed or fibrous, bismuthinite?											
N17-08	L. Wilson					259.9	260.1	Three semi-parallel veinlets with Cpy intergrown with minor Py (40CA and 60CA), crosscut by late grey-calcite undulatory veinlets											
N17-08	L. Wilson					262.4	262.47	Qz-Cal-Py veins containing clots of very transparent greenish Gypsum(?) (effervesces in HCl, though isn't super soft, could be Cal too...). Pyrite is chunky and clotted, mostly marcasite.											

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N17-08	L. Wilson					263.45		Py-Asp veinlet with 2cm green altered halo											
N17-08	L. Wilson					268.9		Bleb of metallic blueish-grey sulphide adjacent to crosscutting Py stringers. Streaks the same colour (metallic blueish-grey), seems quite soft, in sunlight appears to have slight irredescent purplish-blue tinge to it, and produces a sulphur smell when dissolved in HCl - Bornite? Is quite soft however, looks similar to Mo seen earlier in this interval.										
N17-08	L. Wilson					272.48		Qz-Py veinlet with trace bleb of Asp											
N17-08	L. Wilson					272.49		EOH											
N17-09	D. Lefort	0	9.52	NRC															
N17-09	D. Lefort	9.52	13.9	MGR	Microgranite: Strongly oxidized microgranite intercalated with schist. Cut by oxidized sulfide stringers throughout.														
N17-09	D. Lefort	13.9	42.2	SCH	Schist: Light to dark grey-blue schist with gneissic Qtz banding. Foliation is >45 deg tca. Mineralization: Low angle Qtz-Mo-Cpy-Py veinlet observed. Stringers have been oxidized. Alteration: Moderate phyllic alteration observed in weakly oxidized intervals. Weak to strong (sometimes intense) oxidization throughout. Structures: Brecciated intervals with intense oxidation.				Iron	s	phyllic 1	m	0.1	0		0			
N17-09	D. Lefort						38.85	Low angle Qtz-Mo-Cpy-Py veinlet, 5 deg tca 4mm											
N17-09	D. Lefort	42.2	45.29	SCH	Schist: Medium grey schist, Foliation >45 deg tca. Mineralization: Wispy carb-Py veins throughout. Alteration: Weak to moderate phyllic alteration.				carbonatew		phyllic 1	m							
N17-09	D. Lefort	45.29	47.31	QFP	Qtz-Feld porphyry: Medium grey QFP with <1 to 3mm crystals of feldspar and Qtz eyes, some feldpsar crystals are up to 1cm. Mineralization: Qtz-Carb stringers-veinlets throughout. Wispy discontinuous Py stringers throughout, aligned. Wispy carb veins throughout. Alteration: Moderate to strong phyllic alteration.				carbonatew		phyllic 1	m	0.1						
N17-09	D. Lefort	47.31	64.13	SCH	Schist: Medium grey to dark purple schist with gneissic Qtz veins and boudinages. QFP, microgranite dyklets. Mineralization: Common Qtz-Ser-Cpy-SS-Py (rare Po) veinlets throughout. Often irregular and wispy (brecciated veinlets), low angle. Mineralized vein density, thickness and % of Cpy and SS decreased with depth. Often irregular and wispy (brecciated veinlets), low angle. Alteration: Weak to moderate phyllic alteration. Carb stringers and veinlets throughout. Structures: Breccia veinlets and veins present throughout, often associated with mineralization.						phyllic 1	m	3	1.5					0.05
N17-09	D. Lefort					47.31	47.56	Qtz rich breccia (?) at contact, carb infill with Py -Cpy veinlets present											
N17-09	D. Lefort						48.8	Wispy Qtz-(Bio?)-Cpy-Py veinlet (in broken core)											
N17-09	D. Lefort						49.15	Low angle wavy Qtz-Cpy stringer											
N17-09	D. Lefort						49.6	Low angle Qtz-Cpy veinlet, 7mm, parallel tca											
N17-09	D. Lefort						49.95	Qtz-Cpy veinlets cutting each other 30 and 150 deg tca											
N17-09	D. Lefort						50.29	Cpy veinlet, 3mm 65 deg tca											
N17-09	D. Lefort					52.24	52.46	Medium grey QFP with <1 to 3mm crystals of feldspar and Qtz eyes											
N17-09	D. Lefort						52.84	Wispy Qtz-Carb-Cpy-Py veinlets, 35 deg tca, 3mm											
N17-09	D. Lefort					55	55.5	Low angle Qtz-Carb-Cpy-Py veinlets throughout brecciated interval, soft silver blue-pinkish sulfide (bismuthinite?) occurring as irregular blebs											

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N17-09	D. Lefort						58	Qtz-Cpy-Py low angle wavy, irregular, 1-5mm, parallel tca											
N17-09	D. Lefort						58.71	Qtz-Ser-Cpy-SS vein, 45 deg tca, ~1cm, SS is soft ~2-3, pinkish-blueish silver, irregular blebs											
N17-09	D. Lefort						59.09	Low angle Qtz-Cpy-tr Mo (?), stringer											
N17-09	D. Lefort						59.75	Low angle brecciated Qtz-Carb Cpy-Py-SS vein, 10 deg tca, truncated by broken core, SS is slate-silver grey hardness of 2-3											
N17-09	D. Lefort						60.07	Cpy-Py stringer in brecciated interval w carb infill											
N17-09	D. Lefort						60.5	Low angle brecciated Qtz-Carb Cpy-Py vein, 10 deg tca, brecciating host rocks											
N17-09	D. Lefort						61.2	Cpy stringer low angle, truncated by broken core											
N17-09	D. Lefort						61.37	Wispy Qtz-Carb-Ser-Cpy-Py veinlet, 45 deg tca,2-3cm											
N17-09	D. Lefort						61.53	Cpy-Py stringer <1mm, 50 deg tca											
N17-09	D. Lefort						61.81	Carb-Cpy stringer, <1mm, 40 deg tca											
N17-09	D. Lefort						62.42	Cpy and Po smeared veinlets											
N17-09	D. Lefort						62.55	Qtz-Carb-Cpy-Py stringers 30 deg tca, 1mm and 5mm											
N17-09	D. Lefort						63.1	Irregular Cpy-Chl stringer											
N17-09	D. Lefort	64.13	90.07	SCH	Schist: Dark green to dark purple Schist with gneissic Qtz bands. Cut by low angle microgranite and granophyric dykes. Cut by common granite dyke-dyklets. Meter thick microgranite dyke at upper contact. Mineralization: Qtz-Cpy-Py veins present but much less common than overlying unit. One metre interval massive sulfide Py-Cpy. Py stringers-veinlets throughout, ~30 deg tca. Alteration: Weak to moderate phyllic alteration. Carb stringers throughout. Ep crystals present. Broken in parts. Structures: Shear zones and breccia zones throughout.				carbonatew		phyllic 1	m	1.5	0					
N17-09	D. Lefort					64.13	65.17	Microgranite dyke. Diss py, wispy Qtz-Carb-Bio stringers, small patches of coarse grained Qtz, intervals of schist, Cpy offshoot stringer at lower contact											
N17-09	D. Lefort						66.17	Qtz-Cpy-Py stringer 45 deg tca,											
N17-09	D. Lefort					76.45	76.76	Microgranite dyke. Qtz-Carb-Cpy-Py veinlet @ 76.50m											
N17-09	D. Lefort					77.89	78.77	Massive sulfide. Py-Cpy, 1 meter sample. Interstitial texture hosted with dark green schist					30	3					
N17-09	D. Lefort						81.1	Qtz-Carb-Cpy-Py stringers 30 deg tca, 5mm											
N17-09	D. Lefort						83	Qtz-Carb-Cpy sheeted stringers, 30 deg tca, 1mm											

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N17-09	D. Lefort						83.15	Chl-Cpy-Ars-Py stringers, diffuse and irregular, irregular-interstitial Asp crystals											
N17-09	D. Lefort						84.52	Qtz-Cpy stringer, 1mm, 40 deg tca											
N17-09	D. Lefort						85.62	Qtz-Ars veinlet, 30 deg tca, 2mm											
N17-09	D. Lefort						87.95	Qtz-carb-cpy-py, 40 deg tca, 1mm											
N17-09	D. Lefort						88.35	Qtz-carb-cpy-py, <1mm, 35 deg tca											
N17-09	D. Lefort						89.12	Qtz-carb-cpy 30 deg tca, 1mm											
N17-09	D. Lefort						89.5	Qtz-carb-cpy 30 deg tca, <1mm diffuse											
N17-09	D. Lefort	90.07	108.1		Shear-breccia zone: Intercalated zones of schist and microgranite-granite with common sheared zones and brecciated veining. Schist is usually purple (biotite). Microgranite portions are sometimes foliated, cut with abundant carb and py discontinuous stringers veinlets throughout. Core often has soft intervals of fault gouge and is broken in parts. Mineralization: Visible gold in brecciated zone with Qtz-Carb-Py. Qtz-Crb-Cpy-Po veining observed typically low angle. Alteration: Weak-moderate phyllic alteration throughout. Structures: Brecciated and sheared zones throughout.					Phyllic	1	m						
N17-09	D. Lefort						90.07	Q-Car-Cpy along contact											
N17-09	D. Lefort						90.7	Wispy Py-Cpy veinlet											
N17-09	D. Lefort						91.5	Qtz-Cpy-Py, 25 deg tca											
N17-09	D. Lefort						93.6	Low angle Qtz-Carb-Cpy-Py veinlet, parallel tca, 2mm											
N17-09	D. Lefort						96	Pink Carb-Py-Tr Cpy, low angle											
N17-09	D. Lefort					104	104.2	Flecks of visible gold associated with Cpy in a shear zone with common carb veinlets. Gold is alloyed with Cpy in some cases, other blebs are irregular blebs, striated by the drill core, parts of core fall apart while handling											
N17-09	D. Lefort	108.1	118	GRA	Granite: Medium grained biotite granite, soft and crumbly. Intercalated with small intervals of purple schist. Mineralization: Qtz-Cpy-Py veinlets present. Alteration: Weak to strong phyllic alteration. Carb veinlets. Structures: Fault gouge, core is often soft and broken throughout. Brecciated veins with banded carb infill.														
N17-09	D. Lefort						108.5	Qtz-Cpy veinlet, low angle interstitial Cpy-Py, euhedral Qtz											
N17-09	D. Lefort						109	Qtz-Cpy-Py, 90 deg tca, 1cm											
N17-09	D. Lefort						114.92	Qtz-cpy-Py stringer, 30 deg tca, <1mm											
N17-09	D. Lefort						115.68	Qtz-Cpy stringer, 30 deg tca, <1mm											
N17-09	D. Lefort	118	127	SCH	Schist: Dark purple dark green schist with gneissic Qtz bands. Cut by granophyric and granite dykes. Mineralization: Qtz-Carb-Cpy-Py stringers. Alteration: Weak to moderate phyllic alteration. Structures: No major structures.														
N17-09	D. Lefort						120.38	Qtz-Carb-Cpy-Py veinlet, 25 deg tca											
N17-09	D. Lefort						122.58	Qtz-Chl-Cpy-Py stringers, 30 deg tca, <1mm											
N17-09	D. Lefort						123.5	Qtz-Cpy-Py											
N17-09	D. Lefort						124.05	Qtz-Cpy-Py stringer											
N17-09	D. Lefort						126.54	Qtz-Cpy-Py, 45 deg tca, 1mm											
N17-09	D. Lefort	127	136.9	GRA	Granite: Medium grained biotite granite with blocky, rectangular clasts of schist. Mineralization: Qtz-Cpy-Py stringers present, trace amounts of Cpy in stringers. Qtz veinlets throughout. Wispy Carb and clay stringers. Alteration: Weak phyllic alteration. Carb veinlets.										1	0				
N17-09	D. Lefort						130.1	Qtz-Cpy veinlet											
N17-09	D. Lefort						132.23	Qtz-Cpy-Py											

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N17-09	D. Lefort	136.9	260.6	SCH	Schist: White, light grey, dark purple to dark green schist. Some intervals are predominantly med-dark green with wispy purple zones. Foliation is high to low angle (parallel to tca), becomes more parallel with core axis with depth. Noticeable change in foliation orientation around 158-159m within a brecciated zone. Bands and boudinages of gneissic Qtz throughout. Augens of Qtz present. Black (Chl altered) porphyroblasts observed. Some porphyroblasts are altered to Hem or Fe-rich clay. Microgranite and granite dyklets present throughout the unit. Some granite dyklets have schist blocky rectangular inclusions of schist. Mineralization: Qtz-Carb-Cpy-Asp-SS-Mo veinlets observed within the unit although heterogeneously distributed. The veinlets are often low angle. Euhedral Qtz crystals with Carb-Cpy-Py interstitial texture observed. Asp often occurs as small (<1mm) euhedral crystals in the selvages of Qtz-Cpy-Py veinlets (one case of Biotite selvage as well). Carb-Py stringers observed throughout most of the unit. Alteration: Overall weak phyllic alteration observed within this unit. Carb stringers observed throughout the unit. Rare Ep -Qtz veinlets observed. Rare short (10-20cm) intervals of soft flakey, metasomatized core. Structure: Breccia and shear veins present in this unit. Breccia zones often low angle with Qtz-Carb infill, these zone have higher intensity of phyllic alteration and carb veining, often microfaulted. Microfaults present throughout the entire unit.					Phyllic	1	w	1	0.1					
N17-09	D. Lefort						138.3	Cpy-Py											
N17-09	D. Lefort						139	Cpy											
N17-09	D. Lefort						140.6	Qtz-cpy-py											
N17-09	D. Lefort						141	Ep-Qtz veinlets											
N17-09	D. Lefort						141.56	Cpy-Py stringer											
N17-09	D. Lefort						142.15	Qtz-Carb-Cpy veinlet											
N17-09	D. Lefort						142.75	Wispy cpy-py-chl? Stringer cut by carb veinlet											
N17-09	D. Lefort						144.4	Low angle carb vein, wispy parallel tca											
N17-09	D. Lefort						145.85	Pink-tan crystals, hard +7											
N17-09	D. Lefort						150	Qtz-cpy-py-asp veinlet within granite dyklet cut by carb veinlet											
N17-09	D. Lefort						151	Qtz-carb-cpy veinlet, low angle, 3mm											
N17-09	D. Lefort						156.9	Cpy-Py											
N17-09	D. Lefort						158.75	Qtz-Cpy stringer											
N17-09	D. Lefort					160.5	161	3 Cpy-py stringers											
N17-09	D. Lefort						163.12	Py-tr Mo (?)											
N17-09	D. Lefort						168.35	cpy-py smeared											
N17-09	D. Lefort						170	Carb-Py with Hem											
N17-09	D. Lefort						171.55	Qtz-Carb-cpy-py irregular veinlet											
N17-09	D. Lefort						172.65	Qtz-cpy (tr)											
N17-09	D. Lefort						172.97	tr cpy- tr mo											
N17-09	D. Lefort						173.3	tr cpy- tr mo											
N17-09	D. Lefort						179.95	Cpy-py											
N17-09	D. Lefort						180.5	Fe-altered porphyroblasts in light grey schist											
N17-09	D. Lefort						180.6	Qtz-carb-cpy-py veinlet, 40 deg tca											
N17-09	D. Lefort						184.75	strong foliated interval with porphyroblasts, white altered to mica-clays											
N17-09	D. Lefort					180.6	193.4	Weakly mineralized zone											
N17-09	D. Lefort						193.42	Carb-cpy stringer, <1mm, 45 deg tca											
N17-09	D. Lefort						198.9	Qtz-carb-asp-py wispy veinlet, 35 deg tca, 1cm											
N17-09	D. Lefort						204.37	Qtz-carb-cpy-py veinlet, 1cm											
N17-09	D. Lefort						208.75	Soft soapy green, carb clay interval											
N17-09	D. Lefort					210.31	211.9	Broken core, soft clay rich											
N17-09	D. Lefort					214.5	228	Lighter grey-white interval with soft sea-foam soap green clay alteration in parts, cut by discontinuous Py stringers throughout.											
N17-09	D. Lefort						219.12	Clustered Carb-py veins with tr Cpy and Tr Mo											

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N17-09	D. Lefort						219.45	microfaulted Carb-Py Cpy veinlet											
N17-09	D. Lefort						221.85	Cpy-Py veinlet, microfaulted											
N17-09	D. Lefort						225.42	Qtz-Carb-cpy veinlet											
N17-09	D. Lefort						225.53	Qtz-Cpy stringer											
N17-09	D. Lefort					225.5	226.5	Very low angle Qtz-carb-cpy-py-Asp-Mo? Vein, comb texture, carb-cpy-py interstitial texture, 1.5 meter sample											
N17-09	D. Lefort						226.71	Qtz-Carb-cpy-py low angle truncated by microbreccia veinlet											
N17-09	D. Lefort						227.1	Tr mo in Qtz-Carb, euhedral Qtz with interstitial carb											
N17-09	D. Lefort						227.65	wispy very low angle Qtz-Carb-Py-Cpy-SS vein											
N17-09	D. Lefort						228.3	Carb-Asp-Cpy-Py stringer, wispy											
N17-09	D. Lefort						229.35	Qtz-carb veinlet, 75 deg tca 7mm with Asp and Bio selvages											
N17-09	D. Lefort						235.33	Qtz-asp veinlet, 30 deg tca 1mm											
N17-09	D. Lefort						235.85	Qtz-carb-cpy stringer, 40 deg tca, <1mm											
N17-09	D. Lefort						236.5	Qtz-carb-cpy veinlet with Po bleb in the margin											
N17-09	D. Lefort						245.9	Qtz-Carb-Asp-Py veinlet cutting Qtz-Py veinlet											
N17-09	D. Lefort						246.5	Qtz-carb-cpy veinlet, 75 deg tca, 3mm											
N17-09	D. Lefort					251	253.5	Py stringers with tr Cpy											
N17-09	D. Lefort						258	Qtz-carb-cpy-py veinlet, 45 deg tca, 3mm											
N17-09	D. Lefort						260.3	Tr cpy											
N17-10	L. Wilson	0	3.05	NRC	no core recovered (casing) - mostly redrilled overburden														
N17-10	L. Wilson	3.05	66	MGR	Lithology: Light grey to grey-green inequigranular vfg-fg feldspar phyric leucogranite (texture similar to microgranite in some patches but also more of a fg granite in others). Composition is ~60% sub-euhedral felds and remainder subhedral Qz. Phyllic alteration is texturally destructive in some intervals, with ghost feldspar phenos visible. Any possible mafics have been replaced by pyrite +/- Chl. Few mm-scale Qz-eyes visible in FeOx-altered matrix. Alteration: Phyllic assemblage (sericitization + silicification) with minor to moderate Fe oxidation overprint, occuring typically in viscinity of fracture surfaces. Med-grain Ksp sericitized, with occasional zoning. Light green veinlets (green ser?) observed in patches of mod sil and more disarticulated Chl veinlets throughout (~2/m). Yellow jarosite observed on some fracture surfaces, though predominantly limonite +/- pyrolusite (? Mn-oxide) are more commonly fracture coating and replacing Py stringers(?). Patchy pinky-orange to creamsicle orange FeOx pervasive replacement observed, as well haloes of FeOx around veinlets and fractures. Disseminated Py(?) observed, as blackish spidery clots (Fg sooty Py or pyrolusite?), and fg clots of Chl, visible in less oxidized intercepts. Chalky white-yellow clay veinlets and vein breccia occur from 59.9-60.50m. Mineralization: Minor disseminated, clots and few remnant stingers of Py observed, usually partially-completely gone to limonite or rimmed with FeOx. Beyond oxidized zone, Py more visible disseminated, as stringers and clots in veins. Trace disseminated blebs of Mo, sulphosalts observed (may be pyrolusite otherwise). Flecks of bornite(?) observed on a fracture surface alongside orange limonite grains and disseminated Py (22.39m). Bornite irredescent purple and peacocky, appeared flaky and almost like a coating on the fracture surface. Veinlets of sulphosalts (dark greyish blue, black streak) and Asp observed (30CA) from 43.4-44.50m, with partial replacement of Lim (4/m), and a few specks of Bornite on one vein fracture surface. Trace blebs of dark brownish-black Sph observed intergrown with clots of Py in a Qz-Py veinlet at 90.00m. Sulphides: 0.1% Py, 0.01% Asp, 0.01% Mo, 0.01% sulphosalts, 0.01% Bor				Iron	m	phyllic	1 m	0			0	Bor	0.01
N17-10	L. Wilson					7	8.4	Mod silicification, with less visible felds phenos and contains light greenish-grey disarticulated veinlets of green ser(?).											
N17-10	L. Wilson					10.6		Disarticulated margins of a finger of mod silicification. Doesn't appear to be a Qz-vein, ghosty phenos still visible											

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N17-10	L. Wilson					11.5		Thin wavy 1cm-long disseminations of metallic-looking black sulphide(?) observed at 11.5m, though could be pyrolusite											
N17-10	L. Wilson					15.7		Sub mm fleck of metallic grey-blueish mineral (Mo) observed along dissemintaed Py within a Qz vein with diffuse margins.											
N17-10	L. Wilson					17.2	19.2	Zone of increased fracture controlled purple bleaching with dendritic pyrolusite and FeOx, extending 3cm outward from fracture surfaces.											
N17-10	L. Wilson					19.81		Reduce HTW to NTW											
N17-10	L. Wilson					22.39		Fracture surface (45CA) with 15% flecks of bornite intergrown with Py and lim (replacing sulphides?)											
N17-10	L. Wilson					26.2	30.1	Intercept with patchy increased hematite staining of groundmass, seems to be concentrated around fractures.											
N17-10	L. Wilson					33.27	33.31	3cm wide Qz-Cal vein breccia (50CA), contains Py and trace diss metallic grey-blue sulphosalts. Minor Lim staining in breccia and on fracture surface adjacent to.											
N17-10	L. Wilson					43.4	44.5	Veinlets of sulphosalts (dark greyish blue, black streak) and Asp observed (30CA, 4/m), with partial replacement of Lim, and a few trace specks of Bornite.											
N17-10	L. Wilson					59.6	60.5	Chalky white-yellow clay veinlets and vein breccia observed											
N17-10	L. Wilson	66	117	MGR	Lithology: Same as previous, less oxidized and more sulphide mineralization visible. Alteration: Phyllic assemblage (QSP + Chl) with minor to moderate Fe oxidation overprint, occuring typically in viscinity of fracture surfaces. Med-grain Ksp sericitized, with occasional zoning observed. An increase in chaotic Chl-Ser +/- Qtz veinlets observed through interval, at times brecciating wallrock. Mineralization: Sulphide mineralization increased in this interval, with Py observed as stringers, disseminated and clots in veinlets. Trace blebs of Asp, sulphosalts, Sph, Bor and Mo observed in veinlets. Trace blebs of dark brownish-black Sph observed intergrown with clots of Py in a Qz-Py veinlet at 90.00m. Sulphides: 0.2% Py, 0.01% Asp, 0.01% Mo, 0.01% sulphosalts, 0.01% Bor, 0.01% Sph				iron	w	phyllic 1	m	0.2			0	sph	0.01
N17-10	L. Wilson					71.9		Bleb of Mo observed											
N17-10	L. Wilson					74	74.15	1cm-wide Asp-Sulph-Py veinlet (35CA) with 2cm ser-sil halo resistant to FeOx											
N17-10	L. Wilson					79		Qz-Py-Asp-Sulph veinlet (20CA) with trace Bor											
N17-10	L. Wilson					90		Blebs of Sph observed intergrown with clots of Py in undulatory Qz-Py veinlet (60CA).											

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N17-10	L. Wilson					91.9		Blebs of Sph observed intergrown with clots of Py in undulatory Qz-Py veinlet (30CA) xcutting Qz-Chl-Ser veinlet											
N17-10	L. Wilson					95.05	95.2	5cm wide chlorite breccia (hydrothermal or hydraulic?) at 45CA. Breccia matrix is fg Chl, no Py observed. Crosscut by an oxidized limonite veinlet. Offshoots of breccia are brittle Qz-Chl veinlets (25CA).											
N17-10	L. Wilson					95.7		Trace blebs of Sph in Py stringer (45CA)											
N17-10	L. Wilson					96.7		Blebs of Bor in Py stringer (60CA) with minor sil halo surrounding											
N17-10	L. Wilson					99.9	101.22	Dyke intercept, buff-brown, fg with 10% grey qz-eyes up to 0.5cm, chilled margins at upper contact (60CA). Stretched and wavy Qz grains near this upper contact											
N17-10	L. Wilson					102.4	105.2	Patchy breccia, lim-altered and somewhat vuggy. Rubble at top of subint, could be Fe-oxidized hydraulic breccia resulting from fault activity											
N17-10	L. Wilson					105.1	107.8	Grey Qz (+/- Py) veinlets observed in region with increased chaotic undulatory Chl-Ser-Qz veinlets											
N17-10	L. Wilson					112.3	114.25	Intercept of increased Qz-Chl-Ser +/- Py brecciation.											
N17-10	L. Wilson	117	170.2	MGR	Lithology: Same fine-grained leucogranite as seen previously, more homoogeneously light grey-green with patchy increased alteration and mineralization intensity. Composition composed of 10% fg-mg sub-euh Ksp, 40% anh Qz and ~50% vfg-fg sub-euh felds (plag?). Alteration: Phyllic assemblage continues (QSP + Chl), with patchy mod-strong Ser and Py. Chaotic stringers of Py increased across interval (vary between discrete and relatively sharp at 40-70CA to more disarticulated and undulatory), along with chaotic disarticulated Qz +/- Ser veinlets. Intercept with increased silicification and decreased disseminated Py observed from 131.95-134.0m, surrounding a few brecciated and disarticulated Qz veins, with FeOx alteration in viscinity (vugs and open fractures visible). From 150m onwards, alteration takes on a patchy orangey tinge to the grey-green, with an increased yellowing of micro plag phenos, especially surrounding undulatory hairline Ser veinlets. Selveges of Py stringers consist of darker green fg Chl + yellow Ser (or clay?) of felds phenos Mineralization: Pyrite occurs as clots, disseminated and chaotic stringers across interval, a noteable increase from the previous interval. In Qz-Py veinlets trace clots of Cpy, Asp, Sph and bismuthinite observed (Bis @ 127.2m; Qz-Py veinlets ~0.5/m), trace Mo observed as occasional disseminated blebs. Sulphides: 0.5% Py, 0.02% Asp, 0.01% Bis, 0.01% Sph, 0.01% SS (sulphosalts), 0.01% Cpy				Iron	tr	phyllic	1 m	0.5	0		0		sph	0.01

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N17-10	L. Wilson					117.05	117.6	Brecciated zone below moderately silicified intercept, separated by a 2cm dark grey moderately silicious vein set (35CA) with Py throughout. Another dark grey undulatory set of veins (1cm thick, hairline veinlets coming together as a vein @ 50CA) occurs at 117.60m, and contains clots of Py and trace blebs of Cpy.										
N17-10	L. Wilson					127.2		Qz veinlet (20CA) contains clots of Py + trace Cpy and bismuthinite(?). Bis is silvery and reflective, soft and clots are amoeboid, sub mm.										
N17-10	L. Wilson					131.95	134	Intercept with increased silicification and decreased disseminated Py observed from 131.95-134.0m, surrounding a few brecciated and disarticulated Qz veins at 132.85m (75CA), with FeOx alteration in viscinity (vugs and open fractures visible). Veining is increased to 5/m in this intercept.										
N17-10	L. Wilson					133.2		Trace clots of sulphosalts in Qz-Py veinlet (45CA)										
N17-10	L. Wilson					138.8	146.3	Patchy brecciation, not overly competent and has moderate Fe-oxidation (limonite and jarosite) on brecciation and fracture surfaces.										
N17-10	L. Wilson					146.3	147.4	Fault zone - gouge from 146.3-146.7m, and low angle fault along CA. Significant Ser and clay in surrounding wallrock.										
N17-10	L. Wilson					149.1		1cm-wide Qz-Py vein (30CA) with trace Cpy and sulphosalts, with Cpy bleb occuring near a barely crosscutting Py stringer										
N17-10	L. Wilson					131.3		0.5cm-wide Qz-Cpy-Py veinlet (60CA), with Py (marcasite) intergrown with Cpy										
N17-10	L. Wilson					154.22		Vein crosscuts: Undulatory and somewhat disarticulated grey semi-silicious (fine-grained Chl? 20CA) veinlet crosscut by Py stringer (45CA), crosscut by 1cm barren Qz vein (60CA).										

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N17-10	L. Wilson					163.5		Qz-Py veinlet (55CA) with trace intergrown Asp and dark brownish-black Sph											
N17-10	L. Wilson					164.9		Qz-Py veinlet (50CA) with trace intergrown Asp and Cpy											
N17-10	L. Wilson	170.2	203.5	MGR	Lithology: Same as previous. Mineralization increase in this interval. Alteration: Same as previous, mod-strong phyllic (QSP + Chl) Mineralization: Increased mineralization of Asp, Cpy, minor Sph, Mo and SS (Sulphosalts) across this interval. Py remains the most abundant sulphide, up to 1% disseminated, as clots and stringers. Asp observed up to 0.3% across interval, predominantly as massive clots in Qz veinlets, as well disseminated in the selveges of these veins. Often associated with the Asp is Cpy, Py (marcasite usually), and also less often SS and trace Sph. Rare blebs of Mo have been observed, almost always occuring in vein selvege and not within a Qz-Py-(or Asp) vein wall itself. Qz-Asp-Py +/- Cpy veinlets are typically between 45-60CA, and are ~2/m. Sulphides: 1% Py, 0.3% Asp, 0.05% Cpy, 0.01% SS, 0.01% Sph.				Phyllic	1	s		1	0.1				Asp	0.3
N17-10	L. Wilson					170.45		1cm-wide Qz-Py-Asp undulatory vein (30CA) with clots of Sph and trace Cpy											
N17-10	L. Wilson					171.05		Qz-Py-Sph stringer (40CA), crosscut by dark grey undulating chalcedonic-like veinlet											
N17-10	L. Wilson					178.35		Qz-Py-Asp veinlet (45CA) with trace clots of Cpy											
N17-10	L. Wilson					185	189.1	Intercept with increased Asp veining (2-3/m and 35-50CA) up to 0.5-1%, minor intergrown Cpy and SS.											
N17-10	L. Wilson					191.6		Clots and disseminated Cpy observed in selveges of diffuse Qz-Py veinlet											
N17-10	L. Wilson					195.7		Qz-Asp-Py veinlet observed (50CA) with disseminated Asp in selveges											
N17-10	L. Wilson					198.5	203.6	FeOx (lim) rind (1mm) observed on some Qz-Py +/- Asp veinlets											
N17-10	L. Wilson	203.5	301	MGR	Lithology: Same as previous. Subtle differences in texture observed in final few metres of interval, with the possible transition between MGR and fg GRA occurring, though could be alteration-induced textural changes. Patches with more of an equigranular fg granite in more clay-altered sections visible, with a gradual change to the more vfg euhedral Plag texture. Overall, there is not a change in composition, just seems to have minor variation that is highlighted by varying alteration intensity. Decrease in mineralization to more minor levels. Autobreccia(?) observed at 207.4-203.0m, with a light green matrix brecciating MGR, though feldspar pheno texture observed in groundmass - subtle brecciation. A small hydrothermal breccia (4cm-wide, 35CA) observed at 212.02m, with black matrix and fine-grained Py clots and disseminations throughout. Alteration: Same as previous, mod-strong phyllic (QSP + Chl). Alteration haloes observed surrounding Qz-Py veinlets and Py stringers, with a dull grey-green sericitizied (sometimes +/- Ep) envelope (typically up to a few cm wide), whereas surrounding wallrock is typically leucocratic (common observation across entire hole). Fe-Oxidation begins to pick up again at 210.9m, occuring in pervasive patches altering groundmass and feldspar phenos. Majority of diss. Py gone to limonite in these patches, few Py stringers still visible. Limonite rinds observed around some Qz-Py veinlets that are not within an Fe-Ox patch. Armoured selveges (3-4cm across) visible surrounding some Py stringers and Qz-Py veinlets, with Pyrite and sericitie preserved. Patches of increased hematite alteration within Fe-oxidized zone, up to 0.5m long. Mineralization: Pyrite mineralization remains most abundant across interval, up to 1% disseminated with additional minor stringers (~10/m) and clots in veins. Clots of Asp in Qz-Py veinlets observed, with disseminated Asp in vein selveges, in addition to trace-minor clots of Cpy and SS. Trace Bor observed intergrown with minor clots of Cpy in Qz-Asp-Py veinlets sporadically across interval. Sulphides: 1% Py, 0.1% Asp, 0.04% Cpy, 0.01% SS, 0.01% Bor, 0.01% Sph				Iron	m	phyllic	1 m	1	0				asp	0.1
N17-10	L. Wilson					207.4	203	Autobreccia(?) observed, with a light green matrix brecciating MGR, though feldspar pheno texture observed in groundmass - subtle brecciation. No change in silicification between host and breccia..											

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N17-10	L. Wilson					212.02		A small hydrothermal breccia (4cm-wide, 35CA) observed, with black matrix and fine-grained Py clots and disseminations throughout.											
N17-10	L. Wilson					218.6	218.8	Armoured selveges (3-4cm across) visible surrounding three Py stringers and Qz-Py veinlets, with Pyrite and sericitie preserved in zone of pervasive oxidation of feldspars and groundmass.											
N17-10	L. Wilson					225.71	225.73	2cm-wide HBx finger (60CA) with matrix Ser-replaced											
N17-10	L. Wilson					230.7		Qz-Asp-Py veinlet (75CA) with light grey-green sericitized selveges											
N17-10	L. Wilson					238.03		Trace Bor observed intergrown with trace Cpy in an Qz-Asp-Py veinlet (75CA) fracture surface at 238.03m.											
N17-10	L. Wilson					243.85		Trace Bor observed intergrown in Qz-Asp-Py veinlet (35CA)											
N17-10	L. Wilson					245.65		Trace dendritic flecks of Bor and speck of Mal observed in Qz-Asp-Py veinlet (50CA)											
N17-10	L. Wilson					250.65		Qz-Asp-Py veinlet observed (60CA) with intergrown Cpy											
N17-10	L. Wilson					252.9		Qz-Asp-Py veinlet observed (65CA)											
N17-10	L. Wilson					253.23	253.4	Qz-Asp-Py parallel veinlet set (each 1cm-wide, 25CA, undulating and ~1cm apart) observed with massive Asp mineralization (+ Py), intergrown with Cpy and trace Bor. Complete replacement of Asp to limonite in part of lower veinlet, texture remnant of other veinlets seen previously, suggesting a common replacement of sulphides to limonite. Veinlets are vuggy, and has a 2cm-wide green ser alteration envelope on either side, with fine-grained clots of Cpy and trace intergrown Bor disseminated. Trace clot of Sph observed in veinlet as well.											

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N17-10	L. Wilson					257.9	260.7	Intercept of oxidized phyllically-altered MGR with a pinky-brown tinge. Py is Lim-altered, and felds are gone to a whiteish-pink colour. No evidence of Bt, though has similar colour to potassic alt? Armoured vein selvege observed at 260m, with a silicified 1cm-wide halo surrounding a presumably Fe-Ox altered Py stringer											
N17-10	L. Wilson					261.61	261.65	Qz-Asp-Py vein (2cm-wide, 60CA) with coarse-grained clots of Asp, Py and trace Cpy. Centreline of vein is marked with the dull-brown Py (marcasite) mineralization, whereas Asp is mineralized along the inner margins of vein. Asp crystallized first in open space, and infilled with Qz and Py?											
N17-10	L. Wilson					270.5	270.63	Qz-Asp-Py vein (1cm-wide, 25CA) with coarse-grained clots of Asp, Py, and Cpy. Centre of vein is filled with marcasite Py, whereas among the inner vein margins is coarse grained Asp intergrown with Cpy and typical brassy Py. Green sericite alteration halo around vein is 6cm wide on either side, with creamy white Ksp clay altered.											
N17-10	L. Wilson					279.4	279.6	Thin transparent crisp Qz veinlets with remobilized clots of Py (60CA) - appear fresher than other veins observed. These veins have been observed across hole.											
N17-10	L. Wilson					280.5	292	Clots of Asp observed in sharp, crisp Qz-Py veinlets, (typically ~ 0.3/m, 30-60CA), with green sericitized (+ minor sil) alteration envelopes extending for ~2cm											
N17-10	L. Wilson					287.5		Trace clots of Sph observed intergrown with Py in Qz-Py-Asp veinlet (30CA)											
N17-10	L. Wilson					294.3		Subtle fabric of feldspars and Qz 65CA observed											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-10	L. Wilson					295.68	295.7	1cm-wide black HBx (60CA), with sharp lower boundary and undulating upper boundary. Fine-grained Qz+Chl+Py matrix											
N17-10	L. Wilson					294	301.7	Minor patchy variation of texture across this interval, with feldspars altering to clay with varying intensity. Patches resemble more of a MGR texture, though with increased clay alt of feldspars looks more of a fine-grained equigranular leucogranite. Small patch of less altered granite visible from 301.3-301.45m with Bt (partially to Chl) observed.											
N17-10	L. Wilson	301	359	MGR	Lithology: Similar lith as previous, though primary Bt (Chl-altered) present, with a minor transition (as seen in previous interval) to a somewhat equigranular fg Bt granite. That said, there are patches throughout that are no different from previously logged MGR - same composition and texture. Seems that the MGR is a moderately-strongly altered version of this granitic interval, with the vfg texture only becoming obvious with an increase in alt intensity. A reasonable example of the transitional texture with changing alt observed from 309.5-310.6m. Alteration: Minor decrease in alteration intensity from previous interval, though remains a phyllic assemblage (Ser + Sil + Chl +/- Py). Chl observed as replaced primary Bt phenos, with minor Py disseminated. Patchy moderate disseminated Py through, increasing towards lower contact (alteration texture based contact). Py stringers (+/- Chl margins) remain moderate throughout interval (~10/m), with minor Asp intergrown. Stringers are typically between 30-60CA, though increased chaotic texture from 335-346m. Patchy green alteration observed (sharp boundary with fg GRA at 20CA) from 344.70-346.0m, with minor silicification + Chl + green Ser + Ep? Appears diffuse and undulating, with Py stringers and clots (possible Py overprint?). Carbonate (white creamy, effervescent with agitation) veinlets observed from 349.8-355.5m, somewhat disarticulated, but mostly sharp and appear to be brittle fracture fill (5-10/m, between 30-40CA). Mineralization: Minor Py, decrease from previous interval, occurring as minor disseminations (typically in patches with moderate alteration and replacing the Chl & Bt), stringers and some clots in veinlets. Minor Asp observed intergrown with Py in stringers and minor Qz-Py +/- Asp veinlets, as well as disseminated in vein selveges of these Qz-Py veinlets (306.5m). Trace Cpy observed in some veinlets with Asp and Py (305.25m, 306.7m, 339.45m, 347.5m, 350.53m), and trace clots of Mo observed disseminated in selveges of Qz-Asp-Py veinlets (312.32m, 316.47m, 339m, 339.45m). Sulphides: 0.1% Py, 0.03% Asp, 0.01% Cpy, 0.01% Mo.				Phyllic	1	w		0.1	0		0		asp	0.03
N17-10	L. Wilson					305.25		Trace clots of Cpy observed intergrown with Asp and Py in Qz-Py veinlet (55CA)											
N17-10	L. Wilson					306.7		Trace clots of Cpy observed intergrown with Asp and Py in Qz-Py veinlet (80CA)											
N17-10	L. Wilson					309.5	310.6	Transitional texture between weakly phyllically-altered "MGR" to a less altered fg Bt-granite											
N17-10	L. Wilson					312.32		Mo clot (2mm) observed in wall rock											
N17-10	L. Wilson					316.47		Mo clot (1mm) observed in selvege of a Qz-Py-Asp veinlet (40CA) crosscutting a Py stringer (5CA) that also contains trace Asp											
N17-10	L. Wilson					331.54		Qz-Asp-Py veinlet (60CA) that appears to split off, and abruptly follow and meld into a thinner Qz-Py (trace Asp) veinlet (80CA)											

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N17-10	L. Wilson					344.7	346	Patchy green alteration observed (sharp boundary with fg GRA at 20CA), with minor silicification + Chl + green Ser + Ep? Appears diffuse and undulating, with Py stringers and clots (possible Py overprint?).											
N17-10	L. Wilson					349.8	355.5	Carbonate (white creamy, effervescent with agitation) veinlets observed, somewhat disarticulated, but mostly sharp and appear to be brittle fracture fill (5-10/m, between 30-40CA).											
N17-10	L. Wilson					347.5		Qz-Asp-Py veinlet (50CA) with minor dark steel-grey disseminated metallic sulphosalts (SS) and Cpy											
N17-10	L. Wilson					350.53		Qz-Cpy-Py veinlet (50CA)											
N17-10	L. Wilson					356.8		Py stringer (70CA) with 1cm-wide light yellowish-green alteration halo crosscutting a semi-transparent green sericite veinlet (65CA)											
N17-10	L. Wilson	359	445.5	MGR	Lithology: Same as previous, with increasing patches of fg granitic texture, though subtle. Appears mostly like MGR. Increased silicification towards fault zone with healed breccia from 440.8-443.05m. Fault is ~2cm wide, low angle (5CA), and contains fragments of moderately silicified wallrock. Alteration: Phyllic assemblage (QSP + Chl), alteration based upper contact, with increased Py mineralization across interval, especially after primary mafics(?) in granite (no Chl-replaced Bt visible). Py often appearing as dendritic clots throughout wallrock, sometimes associated with nearby Py stringer. Chaotic Py stringers occur across interval, with no obvious preferred orientation. Interval with increased green colour (388.1-391.0m), thought to be fg Chl+Ep+Ser, with feldspars altering to green Ser, as opposed to a lighter white Ser as predominantly seen. Hairline light green stringers (Chl+Ep+Ser?) throughout unit, often chaotic and in some places appear as a stockwork combined with Py stringers. Zone of increased green veinlets and chaotic nature of Py stringers from 422.1-445.1m, up to stockwork density across much of the interval. From 432.1-445.5m, patches of feldspars are somewhat weathered out and carbonate-altered, whereas a zone of silicification surrounds the fault and brecciated zone from 440.8-443.05m. In this brecciated zone, a silicious-carb brecciating vein stockwork occurs, likely healed after fault movement, and contains fragments of pyritized rock and minor stringers, though no disseminated sulphides within breccia. Mineralization: Increased Py from previous interval, occurring as dendritic clots/disseminations, stringers and some clots in veinlets. Minor Asp observed intergrown with Py in stringers and minor Qz-Py +/- Asp veinlets (377.5m, 393.1m), as well as disseminated in vein selveges of these Qz-Py +/- Asp veinlets. Veinlets typically have a preferred orientation 70-75CA, and are usually relatively sharp and may have a grey-green alteration halo up to 2cm wide. Trace clots of Cpy, SS and uncommonly Mo observed in some veinlets with Asp +/- Py, and trace clots of Mo observed disseminated in selveges of Qz-Asp-Py veinlets. Increased Py stringers and green Ser-Chl stringers from 422.1-445.1m. Sulphides: 1% Py, 0.02% Cpy, 0.04% Asp, 0.01% Mo, 0.01% SS				Carbonatew	phyllic 1	m	1	0		0	asp	0.04
N17-10	L. Wilson					360.2	363	Dark pinkish grey undulating chalcedonic veinlets observed (360.4m & 362.6m), appear sharp and late, with trace Py along margin (could be remobilized or taking advantage of Py-stringer/fracture)											
N17-10	L. Wilson					365	369.2	Qz veining increased across intercept, with undulating margins and somewhat disarticulated, up to 4/m. Some veins contain dendritic clots of Py, and most contain Chl along the margins											

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N17-10	L. Wilson					369.1	369.3	Brecciating grey chalcedonic veinlet (quite hard, scratches but cannot get it to effervesce). Brecciated little zone 2x3cm, encorporating wallrock											
N17-10	L. Wilson					388.1	391	Interval with increased green colour and disseminated dendritic Py clots, thought to be fg Chl+Ep+Ser, with feldspars altering to green Ser, as opposed to a lighter white Ser as predominantly seen.											
N17-10	L. Wilson					393.1		Qz-Asp-Py veinlet (75CA) with intergrown clots of Cpy, observed crosscutting low angle Py stringer											
N17-10	L. Wilson					395.6		Asp-Py stringer (75CA)											
N17-10	L. Wilson					397.85		Asp stringer (75CA)											
N17-10	L. Wilson					410.78		Asp stringer (80CA) with trace clots of Cpy											
N17-10	L. Wilson					412.5	412.74	Qz-Carb-Py veinlet (20CA) observed, undualating and milky white with brown Py											
N17-10	L. Wilson					417.2		Asp mineralization increases within this interval, occuring as clots in veinlets intergrown with Py, massive veinlets and disseminations in the veinlet selveges. Veinlets are typically between 70-80CA and ~2/m											
N17-10	L. Wilson					427.15	427.25	0.5cm-wide Qz-Asp (+ Py) veinlet observed crosscut and offset by an undulating Qz-Cal-Py vein with banded Py. Qz-Cal-Py vein appears to have encorporated clots of Asp from the veinlet in portion of vein crosscutting Qz-Asp veinlet. Minor grey-green halo surrounding Qz-Asp veinlet, with minor disseminated Asp in halo.											

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N17-10	L. Wilson					424.9	428.35	Increased zone of silicification, with silicified and disarticulated brecciating silicification vein observed (15CA). Light green (+/- Ser), contains fragments of silicified wallrock, and surrounding wallrock is silicified. Py stringers running along some of the hairline silicified fractures											
N17-10	L. Wilson					422.1	445.1	Zone of increased green veinlets and chaotic nature of Py stringers from 422.1-445.1m, up to stockwork density across much of the interval.											
N17-10	L. Wilson					432.1	432.28	Small section of moderate carbonate alteration and increased sericitization of feldspars. Below this zone, feldspars are pocked out, and exhibit weak carbonate alteration over phyllic.											
N17-10	L. Wilson					432.1	445.5	Increased carbonate alteration and weathering of feldspars in this zone. Fault and brecciated zone occurs from 440.8-443.05m. Carb-alteration picked up below this fault zone.											
N17-10	L. Wilson					440.8	443.05	In this brecciated zone, a silicious-carb brecciating vein stockwork occurs, likely healed after fault movement, and contains fragments of pyritized rock and minor stringers, though no disseminated sulphides within breccia. Fault is ~2cm wide, low angle (5CA), and contains fragments of moderately silicified wallrock.											
N17-10	L. Wilson	445.5	474.5	GRA	Lithology: Light grey-green fine-medium grained equigranular Bt granite. Composition is 55% anhedral Qz, 40% Felds (10% med-grained euhedral Ksp, 30% sub-euh plag), and 5% med-grain shreddy Bt (Chl-altered in some patches). Contact is sharp with upper MGR (50CA), with a sericitic veinlet occuring along contact, and no clear indication of what intruded what (granite seems less altered overall, and is likely to have intruded MGR along plane of weakness by faulting). Texture is homogenous for the intercept until EOH at 474.53m. Alteration: Phyllic alteration assemblage (Ser + Py + Chl +/- Sil), though predominantly weak across interval, with carbonate alteration of feldspars. Upper metre of unit exhibits moderate to strong carb and clay alteration of feldspars, and patchy intervals of increased sericitization of feldspars until EOH. Weak Py stringers and disseminations across interval, with an increase in disseminated Py (after primary Bt and Chl) in zones of increased alteration, otherwise partially Chl-altered Bt observed. Minor bleached alteration haloes surrounding Qz (+/- Carb +/- Chl) veinlets Mineralization: Py stringers minor across interval (5-10/m), with minor disseminations in areas of increased phyllic alteration. Minor Qz-Asp-Py veinlets and trace Asp stringers observed up until 463.30m, typically higher angle (70-75CA) than other veinlets and stringers. Blebs of Cpy and minor stringers observed throughout interval, intergrown with Py and Asp in diffuse and sharp Qz-Py veinlets and stringers. Sulphides: 0.08% Py, 0.04% Cpy, 0.03% Asp					Carbonatew	phyllic	1 w	0.1	0			asp	0.03

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N17-10	L. Wilson					445.5	446.45	Moderate to strong carb and clay alteration of feldspars											
N17-10	L. Wilson					463	463.14	Concentrated patch of disseminated Py and minor Cpy observed											
N17-10	L. Wilson					464.23	464.51	Brecciated zone with hairline network of secondary Bt alteration and disarticulated clots of Chl, brecciating wallrock (60CA).											
N17-10	L. Wilson					463.3	474.53	Minor Cpy observed across intercept, with no visible Asp. Cpy intergrown with Py in stringers.											
N17-11	D. Lefort	0	3.05	NRC															
N17-11	D. Lefort	3.05	9.6	OVB															
N17-11	D. Lefort	9.6	16.47	SCH	Schist: Dark green-blue foliated porphyroblastic schist, with gneissic Qtz bands. Foliation is low angle. Strong oxidation throughout (ox number 3), core broken throughout. Sulfide stringers oxidized, weathered out.														
N17-11	D. Lefort	16.47	45.38	SCH	Schist: Dark green-blue foliated porphyroblastic schist, with gneissic Qtz bands. Moderate oxidation throughout (ox number 1-2), core broken throughout. Sulfide stringers oxidized or weathered out. Trace amount of Py observed.														
N17-11	D. Lefort	45.38	74.68	SCH	Schist: Dark green-blue foliated porphyroblastic schist, with gneissic Qtz bands and boudinages. Low angle of foliation, ~20-30 deg tca. Granite and microgranite dyklets throughout. Mineralization: Sulfide stringers become less oxidized in this unit, with oxidation of stringers descreasing with depth. Qtz-carb-cpy-py stringers-veinlets, often oxidized (Py-Hem). Carb-Asp veinlet observed. Py stringers observed throughout. Alteration:Weak oxidation from upper contact until ~60 m, rusty Hem on fractures and some stringers oxidized (ox number 1). Rare Ep-Chl stringers and crystals observed. Weak phyllic alteration throughout, mostly along fractures, clay infill.				iron	w	phyllic 1	w	1.5	0.1				
N17-11	D. Lefort						46.75	Cpy-py stringers, oxidized (hem)											
N17-11	D. Lefort						46	Py-Cpy smeared stringer											
N17-11	D. Lefort						46.3	Carb-Asp veinlet, 65 deg tca, 3mm, white halo											
N17-11	D. Lefort						48.58	Qtz-Cpy-Py veinlet cutting Qtz-Carb veinlet											
N17-11	D. Lefort						49.35	Py tr Cpy stringers											
N17-11	D. Lefort						49.9	Ep-Chl veinlet											
N17-11	D. Lefort						51.5	Qtz-Carb-Py veinlet											
N17-11	D. Lefort						54.35	Qtz-carb-cpy-py											
N17-11	D. Lefort						57	Tr Cpy											
N17-11	D. Lefort						57.3	Tr Cpy											
N17-11	D. Lefort						57.8	Qtz-Cpy											
N17-11	D. Lefort						57.92	Qtz-Cpy-Py stringer 60 deg tca, <1mm											
N17-11	D. Lefort						58.7	Qtz-Carb-Cpy-Py stringer 60 deg tca, <1mm											
N17-11	D. Lefort						59.17	Qtz-Cpy-Py stringer, 65 deg tca 1mm											
N17-11	D. Lefort						59.87	Qtz-Carb-Cpy-Py veinlet,											
N17-11	D. Lefort						61.3	Qtz-Cpy stringer, 50 deg tca, <1mm											
N17-11	D. Lefort						63.4	Qtz-Carb-Cpy-Py veinlet, 65 deg, 2-3mm											
N17-11	D. Lefort						64	Qtz-Py-tr Cpy, 40 deg tcaa, 1.2cm, Py clots have some Hem alteration											
N17-11	D. Lefort						64.4	Qtz-Cpy-Py veinlet cutting microgranite dyklet (10cm)											
N17-11	D. Lefort						68.41	Granite dyklet, medium grained biotite bearing											
N17-11	D. Lefort						69.16	Qtz-Cpy-Py, 70 deg tca, 8mm											

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N17-11	D. Lefort						70.17	Qtz-Py-tr Cpy, 30 deg tca, 2mm, cut by sheeted Carb veinlets											
N17-11	D. Lefort						74.6	smeared Qtz-Cpy-Py veinlet											
N17-11	D. Lefort	74.68	83.76	BRX	Brecciated Schist: Light grey to brown purple. Interval is heavily fractured and broken throughout. Intact portions are soft to very soft, strongly phyllically altered, cut by common Qtz and Carb veinlets, foliation is parallel tca when observed. Fractured surfaces are coated with white to soft green, blue green clays. Rubbly and broken core consists of mm to cm sized fragments of altered schist, fragments of greenish clay minerals are observed. Core is often very soft and flaky. Mineralization: A Qtz-Carb-Cpy veinlet is observed in an intact portion of phyllically altered core. Alteration: Strong phyllic alteration throughout. Greenish-white mica-clays are common on fracture ends, white clay veinlets are present throughout.				carbonatem		phyllic 1	s	1	0.1					
N17-11	D. Lefort						77.4	Qtz-Carb-Cpy veinlet, 45 deg tca, 1cm											
N17-11	D. Lefort					80.25	80.65	Intact weakly altered section of core, cut by Qtz-carb py veinlets with lighter halos.											
N17-11	D. Lefort	83.76	100.8	SCH	Schist: Light grey, green to medium grey green schist with gneissic Qtz bands cut by microgranite and granite dykes, up to 1-5m thick. Foliation is typically 20-30 deg tca, some small scale folding. Mineralization: Minor Qtz-Carb-Cpy-Py veining observed. Qtz-Carb-Py veinlets cut across all lithotypes observed. Py-marcasite stringers throughout. Black-dark grey floret-dendritic minerals occurring in clusters around some stringers. Alteration: Weak phyllic alteration with zones of strong alteration around breccia zones. Weak propylitic alteration. Rare Ep. Structures: Breccia zone at basal contact, fault gouge throughout.				propylitic w		phyllic 1	w							
N17-11	D. Lefort					87	89	Microgranite and granite dyke, cut by py stringers, Qtz-Carb and late carb stringers											
N17-11	D. Lefort						96.92	Tr Cpy-py											
N17-11	D. Lefort					99	100.58	Strongly phyllically altered granite at basal contact grading into a breccia zone.											
N17-11	D. Lefort						99.95	Cpy-py stringer within strongly altered interval											
N17-11	D. Lefort					100.58	100.84	Breccia zone											
N17-11	D. Lefort	100.8	109.8	QFP	Qtz-Feldspar porphyry: Light grey green groundmass with <1mm to cm sized anhedral to euhedral crystals of feldspar, sometimes zoned and hosting sulfide inclusions. Qtz eyes, 1-4mm, rounded. Mineralization: Qtz-Carb-Cpy-Py-Mo stringers-veinlets present. Py stringers and discontinuous wisps throughout. Py disseminated <1mm blebs, tr Cpy. Carb veinlets throughout. Alteration: Strong phyllic altration throughout. Groundmass is soft, feldspar crystals altered to soft, white mica-clays. Structure: No major structure, core is broken throughout.						phyllic 1	s							
N17-11	D. Lefort						102.95	Qtz-Py- tr Cpy stringer 70 deg tca, <1mm											
N17-11	D. Lefort						103.05	Cpy stringer, diffuse											
N17-11	D. Lefort						104.4	Qtz-Py- tr Cpy veinlet, 60 deg tca, 2mm											
N17-11	D. Lefort						104.6	Qtz-Cpy-Py stringer, 50 deg tca, 1mm											
N17-11	D. Lefort						106.8	Wispy Blue Qtz-Carb-Py Mo veinlet, 35 deg tca, 5mm											
N17-11	D. Lefort						107.69	Cpy bleb, disseminated?											
N17-11	D. Lefort	109.8	114.9	SCH	Schist: White, light grey, purple interval of strongly altered and brecciated schist. Foliation in non brecciated interval is 20-30 deg tca. Upper contact is broken and rubbly. Mineralization: Weak Qtz-Carb-Cpy-Py stringers observed. Alteration: Strong phyllic alteration throughout. Core is soft, altrered to white grey clays. Common fractures with greenish clay infill. Structure: Brecciated lower conact, broken core at upper contact.						phyllic 1	s							
N17-11	D. Lefort						110	Cpy stringer in broken core											
N17-11	D. Lefort						111.43	Qtz-Cpy veinlet, broken core											
N17-11	D. Lefort						112.45	Qtz-Cpy stringer, 65 deg tca, <1mm											
N17-11	D. Lefort					113.6	115	Brecciated clasts of phyllically altered schist and Qtz bands. Infill with wispy pink carb-qtz-py veins and light tan, greenish clay veins, wispy.											

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N17-11	D. Lefort	114.9	134.6	SCH	Schist: White, light grey, bleached, strongly silicified foliated schist with gnessic Qtz bands. Foliations are high angle, 70-85 deg tca. Grading into weakly to absent silicified purple schist. Mineralization: Dendritic patches and stringers of Py-Marcasite throughout, abundant over some intervals. Qtz-Carb-Cpy-Mo-Py mineralization present. Varying orientations. Py-carb veinlets present. Alteration: Bleached white, light grey. Hard, silicified throughout. Early phyllic with late strong silica alteration				silica	s	phyllic 1	m	4	0					
N17-11	D. Lefort						116.18	Qtz-Carb-Mo-Py veinlet, cleear translucent Qtz, 55 deg tca, 3mm											
N17-11	D. Lefort						121.12	Qtz-Carb-Mo veinlet, discontinuous											
N17-11	D. Lefort						123.3	Qtz-Cpy-Mo stringer, 65 deg tca, 1mm											
N17-11	D. Lefort						123.7	Qtz-Carb-cpy veinlet, 5 deg tca, 5mm, with offset Qtz veins (or bands) that are perpendicular tca											
N17-11	D. Lefort						124.35	Qtz-Carb-Cpy stringer, 20 deg tca, 3mm, wavy											
N17-11	D. Lefort						129	Qtz-Carb-Cpy veinlet, 15 deg tca, 3mm wispy											
N17-11	D. Lefort						129.64	Qtz-Carb-Cpy-Py stringer, 75 deg tca, 1mm											
N17-11	D. Lefort					132	134.61	Intercalated silica and phyllically altered schist. Weakly silicified intervals are purple, silicified intervals are grey-brown-purple. Py-Marc stringer with a light tan halo observed.											
N17-11	D. Lefort	134.6	143.7	GRA	Granite: Medium grained light grey Granite. Intergrown, equigranular Qtz-Feldspar crystals. Minor schist intervals, purple brown, silicified foliation is 70-80 deg tca. Schist clasts at basal contact. Mineralization: Common dendritic Py-marcasite and stringers throughout. Minor Qtz-Cpy-Py veinlets observed. Some wispy Qtz-Carb-Py veinlets may contain Mo disseminated in Qtz. Alteration: Weak to moderate phyllic alteration throughout. Feldspars are altered to white mica-clays. Wispy Carb-Py veinlets throughout, carb is pink and banded. Structures: No major structures observed.																
N17-11	D. Lefort						134.8	Wavy Qtz-Cpy veinlet, 15 deg tca, 1mm											
N17-11	D. Lefort						135.5	Qtz-Carb-Cpy stringer, 15 deg tca, 1mm											
N17-11	D. Lefort						138.63	Smearded Cpy											
N17-11	D. Lefort						140.07	Qtz-Cpy-Py veinlet, 65 deg tca, 1cm											
N17-11	D. Lefort						140.95	Qtz-Carb-Py-Mo (?) Wispy, bifurcating offshoots, 45 deg tca, 1cm											
N17-11	D. Lefort						142	Qtz-Carb-Py medium grey, Qtz with <mm clasts											
N17-11	D. Lefort	143.7	163	SCH	Schist: Intercalated schist and granite. Two types of schist predominate, a light-grey, brown purple typical of other schist units encountered with this hole and a dark green-black schist (Chl-Act skarn?). Dark green units sometimes grade into lighter schist. Low angle foliation parallel to 15 deg tca. Dark green intervals possibly a Bio-Chl-Act schist, noticeably absent of gneissic Qtz bands. Granite dykes are medium grained, intergrown, equigranular Qtz-Feld, with common dendritic patches and stringers of Py-Marcasite. Mineralization: All units are cut by wispy Qtz-Carb-Py veinlets, sometimes containing minor Cpy. Qtz-Carb-Cpy-Py-Mo (?) veinlets observed within the lighter schist unit. Alteration: Phyllic alteration throughout, appears to be moderate in the lighter coloured schist, weak in the dark schist and weak in the granite dykes. Some small localized patches of strong metasomatic alteration within light coloured schist observed. Some lighter schist units appear to have some weak silification. Structures: No major structures observed.											0.8	0.1		0			
N17-11	D. Lefort					143.68	145.9	Light schist interval											
N17-11	D. Lefort					145.9	146.66	Granite dyke											
N17-11	D. Lefort					146.66	147.75	Dark green schist, mottled texture at upper contact becoming more foliated with depth, grading into lighter schist, foliation low angle											

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N17-11	D. Lefort					147.75	156.21	Light schist interval, local metasomatized patches, Py-marcasite stringers and dendritic patches throughout, some sections bleached white-grey, strong phyllic alteration in parts, foliation and gneissic Qtz bands are low angle											
N17-11	D. Lefort						148	Qtz-Cpy-Py-Chl(?) stringer, 20 deg tca, 1mm											
N17-11	D. Lefort						149.2	Py tr Cpy stringer, wavy, 15 deg tca, 1mm											
N17-11	D. Lefort						149.4	Qtz-Carb-Cpy, wispy Carb veining, 45 deg tca, 3cm											
N17-11	D. Lefort						149.75	Qtz-Carb-Cpy-Py-Mo(?), wispy Carb veining, 40 deg tca, 4cm											
N17-11	D. Lefort						151	Carb vein low angle throughout											
N17-11	D. Lefort						152.55	Qtz-Carb-Cpy-Py veinlet, 10 deg tca, 1mm											
N17-11	D. Lefort					156.21	158.4	Dark green schist											
N17-11	D. Lefort					158.4	158.65	Microgranite dyklet											
N17-11	D. Lefort					158.65	159.78	Dark green schist											
N17-11	D. Lefort					159.78	160.5	Light coloured schist, with bright turquoise clay alteration in fracture											
N17-11	D. Lefort					160.5	162.95	Granite dyke with inclusions of schist											
N17-11	D. Lefort	163	194.6	SCH	Schist-Act Skarn (?): Dark green-black Bio-Chl-Act schist. Upper contact and several meters consists of Brown-purple schist with low angle foliation and gneissic Qtz bands. With increasing depth, the schist transitions to a dark green with infrequent gneissic Qtz bands. in dark green portions foliations can be observed with the core is dry. Foliations are wavy and low angle. This unit is cut by granite and QFP dyklets. Mineralization: Qtz-Carb-Cpy-Py-Po veinlets are present. Cpy-bearing Qtz veins with biotite selvages observed. Py stringers and barren Qtz veinlets throughout. Alteration: Silica alteration at the upper contact with the overlying granite.				silica	w	potassic	w	1	0.1		0			
N17-11	D. Lefort						166.65	Qtz-Cpy-Py stringers, 40 deg tca, 15 deg tca, <1mm											
N17-11	D. Lefort						167	Smeared Py-Cpy veinlet											
N17-11	D. Lefort					167.85	168.15	Granite dyklet, medium grained, mottled grey											
N17-11	D. Lefort						170.6	Qtz-Carb-Po-Py-Tr Cpy veinlet, 15 deg tca, 5mm											
N17-11	D. Lefort						170.75	Qtz-Carb-Py-tr Cpy stringer, 10 deg tca, <1mm, light halo											
N17-11	D. Lefort						173.45	Py-Po-Qtz diffuse, 15 deg tca, <1mm											
N17-11	D. Lefort						174.85	Qtz-Carb-Cpy-Py veinlet, 75 deg tca, 2mm											
N17-11	D. Lefort						175.75	Qtz-Carb-Cpy veinlet, wavy, parallel tca, 1mm											
N17-11	D. Lefort					176.32	177.17	QFP dyke, dark grey to black, darkens with depth, rare Qtz eyes, sparse feldspar crystals both increasing with depth, apparent foliation in middle of unit, clots of pyrite within foliated interval											
N17-11	D. Lefort						177.35	Qtz-Cpy stringer, 70 deg tca, 1mm											

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N17-11	D. Lefort						178.1	Qtz-Cpy-Py stringer, low angle											
N17-11	D. Lefort						178.3	UST-comb texture vein, Qtz-Feld											
N17-11	D. Lefort						178.65	Qtz-Crab-Cpy-Py veinlet, 30-40 deg tca, 4mm											
N17-11	D. Lefort						180.3	Qtz-Cpy stringer, cluster of Qtz stringers, 1mm											
N17-11	D. Lefort						183.5	Qtz veinlets with Bio selvages, minor Cpy											
N17-11	D. Lefort						184.35	Qtz-Carb-Cpy-Po-Py, 15-20 deg tca, 4mm											
N17-11	D. Lefort						184.54	Qtz-Carb-Cpy-Py, low angle, 1mm											
N17-11	D. Lefort						185.09	Carb-Cpy-Qtz carb selvages, biotite center, 15 deg tca, 2mm											
N17-11	D. Lefort						187.55	Qtz-Py stringer with Bio halo											
N17-11	D. Lefort						188.5	Qtz-Po-Py, 55 deg tca, 8mm											
N17-11	D. Lefort					189	190	Qtz-Carb-Cpy-Py veinlet, parallel tca, 3mm											
N17-11	D. Lefort						190.89	Qtz-Cpy-Py, 15 deg tca, 2mm											
N17-11	D. Lefort						191.2	Qtz-Bio-Py-tr cpy pod, biotite intergrowth, 45 deg tca, 5cm											
N17-11	D. Lefort						191.45	Qtz-Carb-Cpy-Py, 20 deg tca, 5mm											
N17-11	D. Lefort						192.9	Qtz-Cpy-Py, 50 deg tca, 1.5cm											
N17-11	D. Lefort						193.85	Mottled granitic dyke? Qtz-Feld intergrowths, fine-medium grained											
N17-11	D. Lefort	194.6	202.9	SCH	Schist: Altered and folded schist. Dark green schist of previous unit with zones of moderate to strong phyllic alteration and zones of strong carbonate alteration. Foliation is 0 to 30 tca. Different colours of light brown-tan, purple brown, greenish white foliations observed throughout. Very soft. Folding occurs in some intervals. Gneissic Qtz bands present, often tapered ends (boudinages). Some intense metasomatic weather occurring along some fractures, parallel to foliations is observed. Mineralization: Qtz-Carb-Cpy-Py veinlets observed in this unit. Alteration: Strong phyllic alteration observed in parts. Patches of strong carbonate alteration observed, tan-brown carbonate replacing original texture. Carb stringers throughout.				carbonatew		phyllic	1 s							
N17-11	D. Lefort						195.35	Qtz-Carb-Cpy-Py, euhedral Qtz, 75 deg tca, 8mm											
N17-11	D. Lefort						196	Brecciated zone, Py veinlets, discontinuous and blocky											
N17-11	D. Lefort					196	196.25	Tan-brown clay-carbonate alteration											
N17-11	D. Lefort						196.52	Qtz-Cpy-Py stringers, 25 deg tca, ~1mm											
N17-11	D. Lefort					197.4	199	Phyllically altered schist with minor folding											
N17-11	D. Lefort						199.26	Qtz-Carb-Cpy, 15 deg tca, 5mm											
N17-11	D. Lefort						200.4	Metasomatized fracture, very soft core											
N17-11	D. Lefort	202.9	206.2	QFP	QFP-Granite dyke: Qtz-Feldspar porphyry with a grey green groundmass and 25% feldspars, 2% Qtz eyes. Feldspars are anhedral to euhedral, 1-5mm, altered to white mica clays. Medium grained granite with myrmeketic-graphic texture, white grey-tan. QFP mineralization: Disseminated Py throughout. Mostly very small flecks distributed homogenously throughout the unit, small hairline, discontinuous Py stringers (wisps) present in parts. Alteration: Alteration of feldspars in QFP to white-greenish mica-clays. Feldspar-plag in myrmeketic-graphic texture altered to either white or tan clays.						phyllic	1 m	1	0.1					
N17-11	D. Lefort					202.89	205.11	QFP interval											
N17-11	D. Lefort						204.1	Qtz-Carb-Cpy stringer, <5 deg tca, ~1mm											
N17-11	D. Lefort					205.11	205.46	Schist interval, phyllically altered											
N17-11	D. Lefort					205.46	206.18	Granite interval											

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N17-11	D. Lefort	206.2	219.2	SCH	Schist-Act Skarn (?): Dark green-black Bio-Chl-Act schist. Upper contact consists of tan to brown-purple schist with irregular Qtz bands. With increasing depth, the schist transitions to a dark green with intervals of clustered carb veins with phyllic alteration halos. In dark green portions foliations can be observed with the core is dry. Foliations are wavy and low angle. This unit is cut by microgranite dyklets. Mineralization: Qtz-Carb-Cpy-Bor-Py-Po veinlets are present. Bornite occurs as small flecks within Qtz-Carb veinlets. Cpy-bearing Qtz veins with biotite selvages observed. Py stringers and barren Qtz veinlets throughout, often with black (biotite) halos. Alteration: Moderate phyllic alteration observed in intervals with clustered carb veinlets.				carbonatew		phyllic 1	m	2	0.1	0		bor	0.05
N17-11	D. Lefort						206.5	Qtz-Carb-Cpy, 10 deg tca, 5mm											
N17-11	D. Lefort						207.9	Qtz-Carb-Cpy-Py, 45 deg tca, 1mm											
N17-11	D. Lefort						210	Silicified interval ?											
N17-11	D. Lefort						211.41	Microgranite, weakly foliated 12cm thick											
N17-11	D. Lefort						214.24	Qtz-Cpy-Py, 35 deg tca, 1mm											
N17-11	D. Lefort						215.52	Qtz-Carb stringer with 10 cm phyllic alteration halo											
N17-11	D. Lefort					216.5	218.5	Interval with carb veinlets with phyllic altered halos, becomes silicified with depth.											
N17-11	D. Lefort						217	Qtz-Carb-Bor-Py, wispy, Bor occurs as tapered bleb within Carb, 45 deg tca, 1.5cm											
N17-11	D. Lefort						218.25	Qtz-Cpy-Po-Py veinlets, diffuse, Po looks disseminated											
N17-11	D. Lefort						218.5	Qtz-Py stringers with biotite halos (examples)											
N17-11	D. Lefort	219.2	269.8	SCH	Schist: White, light grey, bleached, strongly silicified foliated schist with gneissic Qtz bands. Foliations are low angle, 0-15 deg tca, Qtz-rich intervals due to low angle of schist-gneissic orientation. Granite dyklets, contacting at low angle, sometimes parallel tca. Mineralization: Dendritic patches and stringers of Py-Marcasite present often replaced by Chl. Dendritic patches often associated with Qtz-Py stringers. Qtz-Carb-Cpy-Bor-Mo-Py mineralization present. Bornite occurs as small blebs within Qtz-Carb veins, associated with carb mineralization. Mo occurs as small flecks within Qtz-Carb veinlet. Varying orientations. Py-carb veinlets present. Alteration: Bleached white, light grey. Intercalated hard and soft throughout. Early phyllic with late strong silica alteration in local intervals. Thick Qtz-rich sections have sericite alteration. EOH											2	0.1	0		bor	0.05
N17-11	D. Lefort						220	Qtz-Cpy stringer, 65 deg tca, 1mm											
N17-11	D. Lefort						221.1	Qtz-Carb-Cpy, veinlet, 70 deg tca, 4mm, euhedral Qtz, Cpy bleb											
N17-11	D. Lefort						224.3	Qtz-cpy veinlets, crisscrossing											
N17-11	D. Lefort						225.56	Qtz-Carb-Bor, 50 deg tca, 2mm											
N17-11	D. Lefort						226	Qtz-Carb-Cpy, 20 deg tca, 2mm											
N17-11	D. Lefort						226.45	Qtz-Carb-Cpy-Py, 45 deg tca, 1 mm											
N17-11	D. Lefort						227.65	Qtz-Carb-Po											
N17-11	D. Lefort						233.4	Qtz-Cpy stringers											
N17-11	D. Lefort					245	263	Silicified interval											
N17-11	D. Lefort						245.55	Qtz stringer with dark grey halo											
N17-11	D. Lefort						249.5	Po bleb, diffuse stringer?											
N17-11	D. Lefort						250.45	Qtz-Carb-tr cpy-py, 30 deg tca, 8mm											
N17-11	D. Lefort						254.9	Qtz-Carb-Cpy-Py veinlet, 20 deg tca											
N17-11	D. Lefort						255.57	Qtz-Carb-Cpy-Py, 85 deg tca, 2mm											
N17-11	D. Lefort						256.2	Qtz-Cpy-Py stringer, 75 deg tca, <1mm											

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N17-11	D. Lefort						257	Qtz-carb-Cpy stringer cutting Qtz-Carb-Mo stringer, parallel tca and perpendicular tca, respectively											
N17-11	D. Lefort						257.41	Qtz-Carb-Cpy-Py veinlet, 45 deg tca, 2mm											
N17-11	D. Lefort					260	260.7	Interval with abundant Py Marcasite stringers and dendritic patches replaced by Chl											
N17-11	D. Lefort						262	Carb veinlet with hairline Py center, 45 deg tca, 2mm											
N17-11	D. Lefort						262.5	Qtz-Carb-Cpy veinlet, 75 deg tca, 2mm											
N17-11	D. Lefort						262.75	Qtz-Carb-Mo veinlet, 75 deg tca, 2mm											
N17-11	D. Lefort						263.1	Qtz-Py stringer with dendritic Chl patches halo											
N17-11	D. Lefort						269.15	Qtz-Carb-Bor (?) veinlet, 10 deg tca, 5mm, Bor (?) 1mm bleb with brown streak, soft 2-3											
N17-12	D. Lefort	0	10.67	OVB	Clay, broken fragments, intensely oxidized														
N17-12	D. Lefort	10.67	43.34	SCH	Schist: Strongly to intensely oxidized schist. Original texture is destroyed throughout much of the unit. Intervals are often completely replaced by Fe-Ox. Orange-red, black along some fractures. Intervals of moderately oxidized schist are rare. The schist displays weak phyllic alteration with light green clays. Foliation is ~20-30 deg tca, wavy.														
N17-12	D. Lefort	43.34	57.63	SCH	Schist: Weak to moderately oxidized schist. Gneissic Qtz bands throughout but rare, often microfaulted and tapered ends. Mineralization: Arsenopyrite veinlets present in oxidized interval of core. Arsenopyrite-Hem vein original host mineral (Carb) replaced by Hem. Py blebs within oxidized zones. Most stringers are oxidized, thin, wispy and all orienations. Qtz-rich silica flooded zone, cut by oxidized stringers, sericitized veinlets throughout. Alteration: Weak to moderate oxidization throughout unit. Weak to moderate phyllic alteration, altered to beige-tan-brown clays. Structure: Thick breccia unit at basal contact. Small broken core zone present (small fault zone-fault gouge).														
N17-12	D. Lefort						43.71	Qtz-rich, silica flooded interval with sericite veinlets.											
N17-12	D. Lefort						47.3	Asp-Hem veinlet, wavy parallel tca, 2-3mm											
N17-12	D. Lefort							Asp-Hem veinlet, wavy parallel tca, 2mm											
N17-12	D. Lefort	57.63	90.73	SCH	Schist: Mottled, variagated grey-brown-purple-white at upper contact, grading into a creamy beige-white and dark grey-blue schist cut by microgranite dykes and common breccia zones. The Qtz-Bio-Chl schist, foliation is 20-30 deg tca and increases with depth to 45 deg tca until ~83m where foliation orientation decreases to 0-10 deg tca. Augens and boudinages oberved in some intervals. Patches of oxidization and purplish hem (?) alteration within 3m of the upper contact. Unit displays thin bands of light brown-green and dark grey from 71.77m to 82.50m. Microgranite dykes are often foliated, phyllically altered. Contacts with schist are low angle and sharp. Mineralization: Very fine grained arsenopyrite occuring in patches, may be low angle wispy veinlets (?). Sulfide breccia present from 73-74m, fault gouge with phyllically altered schist and clots of pyrite. Carb-Asp-Py veinlets present. Disseminated Py-Marcasite and stringers throughout, wavy, irregular, discontinuous. Veining: Carb stringers and veinlets throughout, especiialy in brecciated intervals, often irregular and discontinuous. Chalcedonic Qtz veins present, wispy, discontinous. Alteration: Patchy oxidation within the upper 3m of the unit. Light purple overpring in this interval. Weak to moderate phyllic alteration throughout. Structure: Common breccia zones thoughout, small-scale microfaulted and brecciated zones are common.				Carbonatew		Phyllic 1	m	2	0			asp		0.05
N17-12	D. Lefort						58	Diss Py-Asp (smeared veinlet), very fine-grained											
N17-12	D. Lefort					60	72	Creamy white-beige interval, common discontinuous Py stringers throughout											
N17-12	D. Lefort						60.3	Diss Py-Asp (smeared veinlet), very fine-grained											
N17-12	D. Lefort						61.47	Diss Py-Asp (smeared veinlet), very fine-grained											
N17-12	D. Lefort					61.55	63.25	Microgranite dyke, foliated in parts											

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N17-12	D. Lefort						62.6	Diss Py-Asp (smeared veinlet), very fine-grained											
N17-12	D. Lefort					72	82.7	Alternating bands of dominant dark-grey and subordinate, light beige-green (phyllically altered) schist											
N17-12	D. Lefort					72.95	73.93	Sulfide breccia, Py dominant, fault gouge of phyllically altered schist clasts and clots of Py.											
N17-12	D. Lefort					74.36	74.47	Band of very fine-grained Py-Asp											
N17-12	D. Lefort						75.05	Cpy bleb											
N17-12	D. Lefort					77.83	78.7	Microgranite dyke, foliated in parts, minor Py-Marcasite stringers											
N17-12	D. Lefort						80.55	Carb-Asp-Py veinlet, Asp is very fine grained, 90 deg tca, 1.2cm											
N17-12	D. Lefort					82.48	82.59	Very fine grained Asp in dark grey schist interval											
N17-12	D. Lefort					82.7	91	Light grey-creamy white phyllically altered schist, common Py-marcasite stringers and blebs											
N17-12	D. Lefort						84.32	Py-Asp veinlet 75 deg tca, 1.5 cm											
N17-12	D. Lefort					88.39	88.8	White augens or porphyroblasts with white-tan foliations											
N17-12	D. Lefort						89.42	Py stringer with dark clay halo											
N17-12	D. Lefort	90.73	95.18	BRX	Breccia zone: Brecciated beige green and dark grey schist. Breccia zones are low angle and characterized by subrounded to angular clasts of dark blue-grey Qtz and schist, sometimes with rims of carbonate. Matte grey (chert-like) Qtz infill in upper portion of breccia unit, grey-blue clay groundmass towards the lower portion. Non brecciated intervals consist of tan brown, beige-green phyllically altered schist. Low angle foliation perpendicular tca, common carb veinlets, varying orientations, irregular and discontinuous. Mineralization: 10cm interval of Py breccia, clots of Py with clats of altered schist, oxidized, cut by carb veinlets. Alteration: Moderate phyllic alteration throughout, beige-green clays. Cut by carb stringers and veinlets throughout. Weak oxidation at basal contact.															
N17-12	D. Lefort	95.18	99	SCH	Schist: Dark grey-blue and light grey-beige green foliated schist. Foliation ~20-30 deg tca microfaulted throughout. Core is broken and moderately oxidized.														
N17-12	D. Lefort	99	112.1	BRX	Brecciated and silicified Schist with common sulfide mineralization. Dark grey-blue schist with minor gnessic Qtz bands, foliation orientation varies throughout unit, folded in parts. Interval characterized by common, low angle healed breccia veins. The clasts are typically angular clasts of schist. Low angle Qtz vein-silica flooded intervals are present and associated with mineralization. Mineralization: Common disseminated anhedral to euhedral crystals of arsensopyrite within schist and Qtz-Carb veinlets (euhedral Qtz crystals). <1mm to 3mm. Asp occurs as intergrowths with sphalerite crystals within Qtz-Asp-Cpy-Py veinlets. Asp-Py stringers present throughout, varying oreintations often irregualr and discontinuous. Cpy-Py occurs in Qtz-Carb veinlets as well as blocky veinlets, often irregular and discontinuous. Py stringers and veinlets throughout, with Py forming mm-1cm sized clots. Alteration: Unit is strongly silicified in parts overprinting a weak to moderate early stage of phyllic alteration. Carb veining is present throughout and often infill brecciated intervals.											4	0.5			asp		3

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N17-12	D. Lefort					99	100	Low angle Qtz-Carb-Asp-Cpy-Sph-Py vein, Qtz often shows comb texture, euhedral crystals with disseminated Asp as blocky intergrown crystals with Sph. Asp crystals are anhedral-euhedral <1mm to 3mm, sometimes exhibiting interstitial texture with toothy, euhedral crystals of Qtz. Sph crystals are euhedral, 1-3mm, blocky. Cpy occurs as small ~1mm interstital, irregular blebs. Py occurs as anhedral to cubic blebs, <1mm to 5mm.											
N17-12	D. Lefort					100.5	105	Common Qtz-Carb-Asp-Py+-Cpy veinlets, Asp, Apy-Py, Py stringers and diss py throughout this interval. Stringers and veinlets have varying orientation. Cut by carb stringers and veinlets. Breccia zones with angular schist clasts infilled by Carb throughout.											
N17-12	D. Lefort						108	Breccia with rounded mm to (upto) 1cm Asp crystals											
N17-12	D. Lefort						108.2	Qtz-Asp-Cpy-Py veinlet, 70 deg tca, 1cm											
N17-12	D. Lefort						109.5	Very fine grained Asp in dark grey schist interval, brecciated with mm sized clots of Py											
N17-12	D. Lefort						109.75	Breccia vein wih subrounded-angular clasts of dark-grey-blue schist, carb infill, druzy calcite crystals with gypsum infill.											
N17-12	D. Lefort						110.39	Irregular pod of Cpy-Py, vuggy carb											
N17-12	D. Lefort	112.1	116.7	SCH	Schist: Dark grey-blue - light grey-green schist. Intercalated dark and light bands, microfaulted throughout. Foliation is wavy, 10-25 deg tca. Mineralization: Single (Qtz-Carb?) Asp-Py stringer observed. Alteration: Locally strong silica alteration overprinting weak phyllic alteration (light grey-green portions), cut by late carb stringers-veins. Structures: Microfaults observed throughout unit.				silica	w	phyllic 1	w	0.8				asp	0.05
N17-12	D. Lefort						113.63	Qtz-Carb-Asp-Py stringer, 35 deg tca, <1mm											
N17-12	D. Lefort						115.3	Moderate phyllic alteration along a fracture											
N17-12	D. Lefort	116.7	123.2	SCH	Schist: Similar to above unit with moderate phyllic alteration. Common acrb veining towards lower contact. Mineralization: Pod of finely disseminated Py. Minor clots of Py observed. Structure: Fault gouge.				silica	w	phyllic 1	m	1						
N17-12	D. Lefort						122.35	Pod of finely disseminated Py, carb-clay altered zone.											

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N17-12	D. Lefort	123.2	136.4	MGR	Microgranite: Light grey-green aphanitic to fine-grained granite. Rare feldspar crystals <1mm, altered to white mica-clays. Carb-Py stringers throughout. Mineralization: Py stringers throughout. Py-Asp stringers are present in the bottom 3.5m of the unit. They are sheeted, high angle and 1mm thick or less. Alteration: Weak-moderate phyllic alteration throughout. Groundmass altered to light green (sericite) and rare feldspars are altered to white mica-clays. Common carb stringers and veinlets. Some carb veinlets with diss Py flecks altered to sericite (?). Structure: Core is broken throughout, clean, cobble sized fragments.													
N17-12	D. Lefort					133	136.43	Asp-Py stringers throughout, 70 deg tca, usually <1mm, sheeted, cut by carb stringers											
N17-12	D. Lefort	136.4	141.6	SCH	Schist: Intercalated schist, granite and microgranite units. Shist intervals are characterized by altered dark blue-grey and light grey-green bands, foliations are 10-20 deg tca. Bottom of unit is silicified dark grey blue, with minor breccia veins and Asp-Cpy-Py mineralization. Granitic dyklet is fine to medium grained, phyllically altered, foliated, with Qtz-Py veinlets. Microgranite is aphanitic to fine grained. Mineralization: Schist: Bottom ~1.5m of this unit is characterized by abundant Asp-Py+-Cpy mineralization. Low angle and smeared veinlets show euhedral Qtz crystals with interstitial Asp-Py-Cpy. Microgranite: Qtz-Carb-Asp-Cpy-Py veinlet observed. Asp-Py stringers present. Asp-Py veinlets are high angle. Py stringers are irregular and discontinuous. Alteration: Weak-moderate phyllic alteration throughout. Light green sericite alteration of foliations in schist, feldspars in microgranite and granite and Qtz-ser veinlets present, wispy and irregular. Carb veinlets throughout.				Carbonatew		phyllic 1	m	3	0.1			asp		2.5
N17-12	D. Lefort					140.1	141.63	Common Qtz-Carb-Asp-Py+-Cpy veinlets throughout this interval. Veinlets are low angle and irregular, veinlets show sericite alteration. Smeared veinlets show euhedral Qtz crystals with interstitial Asp-Py-Cpy											
N17-12	D. Lefort	141.6	150.7	QFP	Qtz-Felspar Dyke: Light grey-beige groundmass with feldspar crystals, 10-15% feldspar crystals altered to white mica-clays. Qtz eyes present, 1-3mm, rounded-subrounded. Feldspar crystals and Qtz eye % increases with depth. Dark grey-brown silicified interval.Mineralization: Carb-Asp-Cpy-Py stringers present. Low to high angle, ~1mm. Alteration: Phyllic alteration throughout, groundmass altered to light green mica-clays. Structure: No major structures.														
N17-12	D. Lefort						144.05	Asp-Carb stringer, 30 deg tca, 1mm											
N17-12	D. Lefort						144.9	Anhydrite/gypsum veinlet											
N17-12	D. Lefort						147.41	Carb-Asp-Py veinlet, 90 tca, 5mm											
N17-12	D. Lefort						148	Carb-Asp-Py stringer, 35 deg tca, 1mm											
N17-12	D. Lefort						148.35	Carb-Asp-Py stringer, 90 tca, 1mm											
N17-12	D. Lefort	150.7	177	SCH	Banded schist: with zones of gneissic schist. Bands are typically <1 mm wide and comprise of bt-chl and qtz-mica grains fine to very fine grains. The rock contains blueish-grey to greenish hue colours that are probably associated with chl. The schist contains concordant porphyritic and foliated microgranite intrusions. No leucogranite intrusions are observed. The alteration is generally weak in intensity with intermittent zones of pervasive phyllic and carbonate alteration. Sulph stringers are wispy to straight in orientation adn <1 mm wide and contain qtz. These veinlets are not common. Mineralization grades are very weak with tr cpy. Py mineralization grades are also very low with mar as a common associate mineral.				Carbonatew		Phyllic 1	w	3						
N17-12	D. Lefort			BRX		151.5	151.87	Brecciated schist											
N17-12	D. Lefort					153.38	153.68	Strong cb veinlets by fracture-infill											
N17-12	D. Lefort					157.21	157.23	Fracture infill with cb; 60 deg. TCA											
N17-12	D. Lefort					157.21	158.1	Increase in sulphides associated with py+/-mar+/-po+/-cpy stringers that occur 80 deg TCA and 60 deg TCA											
N17-12	D. Lefort					158.1	161.37	Moderate-strong pervasive carbonate alteration			Carbonatem								
N17-12	D. Lefort			MGR		162.35	162.84	Strongly foliated and porphyritic microgranite; 60 deg. TCA											
N17-12	D. Lefort					164.17	164.66	Sericitized porphyritic and foliated micogranite; 60 deg. TCA			Phyllic 1	m							
N17-12	D. Lefort			MGR		173.3	174.05	Microgranite											
N17-12	D. Lefort					173.3	174.1	Strong clay and sericite alteration			Phyllic 1	s							

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N17-12	D. Lefort					174.05	171.51	Strong pervasive carbonate alteration			Carbonate	s							
N17-12	D. Lefort			MGR		171.51	174.91	Microgranite											
N17-12	D. Lefort			BRX		176.53	177.02	Brecciated contact unit between schist and QFP											
N17-12	D. Lefort	177	180	QFP	Quartz-Feldpsar porphyry dyke: contains 30-40% euhedral feldspar phenocrysts of various sizes from 1 mm to 1 cm with the majority between 2-4 mm. Quartz eyes are less common (10-20%). Phenocrysts are locally aligned but not deformed. Sulphide replacement of primary mafic minerals is common (<10%) . Sulphides are also common within qtz veins.				Phyllic	1 w	Silica	m	4	0.4	0.5				
N17-12	D. Lefort	180	260.6	SCH	Schist: contains a beige to brown colour as there is moderate to strong carbonate and sericite/clay alteration. Weak brecciation occurs frequently typically associated with fractured zones with cb-infill. Minor gouge zones associated with these fracture-fill zones are common. Microgranite intrusions range in width. QSP veins are not common but cut the schist and the microgranite at 60 and close to 90 deg TCA. Tectonic foliation varies from 10 to 40-50 deg TCA. Sulphides comprise of py, mar, with minor po and cpy.				Carbonate	m	Phyllic	1 s	3	0.4	0.1				
N17-12	D. Lefort			MGR		184.1	184.96	Microgranite											
N17-12	D. Lefort			MGR		188.81	192.67	Microgranite is cross cut by <3% py and minor to trace cpy. Sulph stringers occur at 60 and 30 and <10 deg TCA. The sulph contain a dendritic shape.											
N17-12	D. Lefort			MGR		198.27	198.86	Microgranite											
N17-12	D. Lefort			MGR		199.42	199.76	Microgranite											
N17-12	D. Lefort					200.5	200.51	Fracture infill with cb; 30 deg. TCA											
N17-12	D. Lefort			MGR		203.37	204.23	Microgranite											
N17-12	D. Lefort					204.23	206.24	2-3 fractures (<1 cm wide) per metre with gouge infill											
N17-12	D. Lefort					211.21	215.45	Strong py+/-mar associated with veins and propylitic alteration comprised of ep stringers and pervasive green chl alteration of schist. Mag alteration also occurs - typically associated with milky-white, 2 mm wide qtz veins that cut the rock at 30-40 deg. TCA. Py folia is common and is oriented at 45 deg TCA	Potassic	w	Propylitic	w	10						
N17-12	D. Lefort			MGR		220.59	221.96	Microgranite											
N17-12	D. Lefort			BRX		221.96	221.85	Breccia zone with healed gouge as well											
N17-12	D. Lefort					224.03	238.35	Increase in cpy mineralization associated with qtz-py-mar veins that are 1-2 mm wide, discontinuous to continuous and wispy to containing sharp margins. These veins cut the rock at 30 and 60-70 deg TCA					5	0.6					
N17-12	D. Lefort			BRX		226.88	229.34	Breccia zone. Greyish-blue coloured matrix with clasts that of schist and sulphides (py-mar). Cpy occurs as well. Asp occurs - typically within open-space fill veins					5	0.8					
N17-12	D. Lefort					223	223.01	Strong cpy						1.5					
N17-12	D. Lefort					222.89	222.9	Strong asp										asp	3
N17-12	D. Lefort			MGR		230.1	231	Microgranite											

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N17-12	D. Lefort					234.23	241.74	Stockwork py-mar-qtz+/-cpy veins are common and occur 4-8 per 10 cm											
N17-12	D. Lefort			MGR		239.06	239.31	Microgranite											
N17-12	D. Lefort			MGR		239.65	242.32	Microgranite											
N17-12	D. Lefort					238.35	248	Weak cpy mineralization						0.5					
N17-12	D. Lefort			MGR		243.83	245.3	Microgranite											
N17-12	D. Lefort			BRX		245.53	245.7	Breccia with shcist clasts and pink cb matrix; 70 deg. TCA											
N17-12	D. Lefort					248	260.6	Beige to pale pink coloured schist is overprinted by phyllic alteration. The schist is banded with qtz-mica bands interbanded with vfg schist.											
N17-12	D. Lefort					250.32	253	Blue schist sub-unit with an elevation in cpy mineralization associated with qtz-veins and											
N17-13	D. LeFort	0	4.57	OVB	Overburden														
N17-13	D. LeFort	4.57	34.74	SCH	The schist contains a matte black to dark-greenish coloured and mottled pattern with localized and sporadic zones of medium size grains of dark green hbl(?) or chl(?). Bands of qtz and qtz lenses are not common and occur in variable amounts. There are rare, <10 cm wide leucocratic alkali feldspar/tonalite that cross cut the schist. The schist is moderately to strongly chloritized and weakly to trace phyllic alteration overprint. The rock contains trace py with small localized zones of po+py mineralization associated with an increase in chl and ep alteration.						Propylitic	w	1						
N17-13	D. LeFort			MGR		7.62	8.75	Leucocratic microgranite											
N17-13	D. LeFort					27	29.52	Fault: Gouge and rubble with strong lim alteration and goe mineralization											
N17-13	D. LeFort					29.38	25.71	Med-grained (20-25%) mafic mineral (dark-green)											
N17-13	D. LeFort					30.48	34.74	Fault: Strongly weathered and oxidized with lim and goe mineralization. Gouge and rubble throughout the interval; lower contact at 60 deg TCA											
N17-13	D. LeFort	34.74	50.29	SCH	Schist is grey to dark grey in colour with 2-3 white qtz-bands per 10 cm. The tectonic foliation occurs at 40-50 deg. TCA and is commonly wavy and anastamosing defined by white to grey sericite folia, qtz-bands and py+/-po folia and blebs. There is a strong pervaisve QSP alteration overprint. Quartz associated with the alteration is clear-translucent. There are two zones that contain an increase of med-grained feldspars that are sericitized (>20-35%) that may be a leucogranite protolith. These feldspar grains are aligned and slightly elongate parallel to the foliation. Py mineralization is common and disseminated with minor po.					Carbonate	w	Phyllic 1	s	10	0.3				
N17-13	D. LeFort					34.74	39.68	Moderately foliated porphyryitic intrusive unit is strongly overprinted by QSP alteration.											
N17-13	D. LeFort					39.68	39.7	Fault with gouge; 30 deg. TCA											
N17-13	D. LeFort					44.2	44.66	Moderately foliated porphyryitic intrusive unit is strongly overprinted by QSP alteration; 60 deg. TCA											
N17-13	D. LeFort					47.5	48	Mar and minor cpy mineralization					2	0.1					
N17-13	D. LeFort					49.33	49.6	Leucocratic tonalite/alkali feldspar (?) dyke at 60 deg TCA											

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N17-13	D. LeFort	50.29	68	SCH	Strongly fractured and faulted grey to dark grey schist is strongly phyllically altered. Gouge is common along fractures. There is a QFP dyke near the bottom of this interval that is bounded at the lower boundary by a fault. The phyllic alteration comprises mostly of pervasive QSP alteration. The py is disseminated and along with the qtz-bands within the schist and the hydrothermal sericite form folia that define the tectonic foliation that is oriented at 30-40 deg. TCA. Carbonate altertation is common throughout the interval and typically along fracture surfaces and associated with gouge.				Carbonatew		Phyllic 1	s							
N17-13	D. LeFort			QFP		62.2	63.97	The phyllic alteration is essentially texturally destructive within the quartz-feldspar porphyry dyke that cross cuts the schist. However, qtz-eyes are still identifiable (<10% of rock). There is also a faint pink hue (hem?) associated with the QFP. The QFP dyke is flanked by gouge-filled faults on either side (70 deg. TCA)										
N17-13	D. LeFort					63.97	68	Fault with mostly gouge material contains an upper contact at 30 deg. TCA and a lower contact at 20 deg. TCA.											
N17-13	D. LeFort	68	88.13	SCH	Schist interchanges between a beige to pale maroon colour associated with variably texturally destructive phyllic alteration to dark greenish-black zones associated with moderate to strong pervasive chl alteration. The schist contains small intervals of leucogranite intrusions and concordant leucocratic microgranite. Leucocratic (<1% mafics) tonalite/alkali feldspar dykelets and/or veins are common and vary in thickness from 1 cm to 30 cm. The chloritic alteration zones contain minor ep alteration occurs as stringers. This zone is strongly faulted with gouge and healed gouge material within the fault zones. The tectonic foliation of the schist ranges from 30-40 deg. TCA. Carbonate alteration is limited to the gougey fault zones. Mineralizaiton is very low with trace to minor py associated with stringers and blebs after mafics.				Phyllic 1	s	Propylitic	s	1						
N17-13	D. LeFort			GRA		70.22	71.31	Leucogranite contains a texturally destructive phyllic alteration overprint; lower contact at 30 deg. TCA											
N17-13	D. LeFort			GRA		72.66	73	Leucogranite; lower contact at 30 deg. TCA											
N17-13	D. LeFort					73.15	75.25	Fault with gouge; upper contact at 60 deg. TCA and same with lower contact											
N17-13	D. LeFort			MGR		74.31	74.61	Leucocratic microgranite; upper contact is concordant with schist at 30 deg. TCA											
N17-13	D. LeFort					75.25	75.95	Strong chlorite alteration of schist			Propylitic	s							
N17-13	D. LeFort					76.68	76.44	Leucocratic tonalite/alkali feldspar (?) dyke at 60 deg TCA											
N17-13	D. LeFort			MGR		76.85	77.43	Leucocratic microgranite; upper contact at 60 deg. TCA; mar blebs occur											
N17-13	D. LeFort					77.43	80.75	Strong chlorite alteration of schist			Propylitic	s							
N17-13	D. LeFort					80.75	82.47	Fault zone with mostly gouge material; Main fault is likely at 80.75 to 81 m; lower contact at 20 deg. TCA											

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N17-13	D. LeFort					82.47	88.13	Py and mar blebs < 1 mm in size are common as well as py+/-mar stringers that cut the rock at 20 deg. TCA and 70 deg. TCA. The stringers occur 3-5 per 10 cm											
N17-13	D. LeFort	88.13	103.5	BRX	Grey to bluish-grey coloured schist/slate is strongly phyllically altered and strongly brecciated. The brecciated schist-slate contains dark bluish-grey coloured graphite. Phyllic (QSP) alteration comprises of strong pervasive silica alteration of the groundmass, turquoise and beige coloured ser after feldspar and white-beige-cream coloured ser-folia, and py blebs that are aligned and elongate to form folia. The folia define a foliation from 40-50 deg. TCA outside of the breccia zone. The foliation within the breccia zone is variable. Uncommon fragments of altered and hematized leucogranite occur within the breccia zone. Small intermittent zones of beige coloured phyllically altered schist with less silica occur. Py-mar mineralization is strong and tr cpy and po also occur - mineralization within the breccia zone is less than the zone that precedes it.					Phyllic	1	i	5					
N17-13	D. LeFort					88.13	91.36						8						
N17-13	D. LeFort					91.36	103.46	Fault with gouge material at 30 deg. TCA at upper contact					3						
N17-13	D. LeFort	103.5	130.6	SCH	Schist to gneissic schist is strongly altered by phyllic alteration and varies in colour from zones of beige-cream coloured rock to maroon-brown coloured zones. The beige-cream coloured zones are associated with strong pervasive ser-silica alteration. The maroon-brown coloured zones are more bt-(chl after bt?)rich with ser replacement of feldspar augens. The schist varies in composition from more feldspar-augen rich with darker-mafic mica interlayered with very thin (<1 mm wide) qtz-folia to zones of vfg ser after chl(?) and vfg feldspars. It is possible that the few of the beige-cream coloured zones are leucocratic microgranite protoliths - but difficult to discern with such strong-intense pervasive alt. The schist contains a tectonic foliation defined by the ser-, chl+/-bt-, and qtz-folia and qtz-bands at 30 deg. TCA. Qtz-py-mar veins are <1 mm wide and contain ser halos 1-2 mm on either side (QSP veins). These veins are common and occur 1-2 per 10 cm at 70-80 deg. TCA. Py within this zone is associated with QSP veins and sulph-stringers. Sulph (py+/-mar) stringers occur at 0-10 and 70 deg. TCA.					Phyllic	1	i	3					
N17-13	D. LeFort					111.7	117.55	Stockwork sulph (py+/-mar) stringers					4.5						
N17-13	D. LeFort					117.59	117.6	Qtz-mar-py-asp vein at 40 deg. TCA											
N17-13	D. LeFort			MGR		122.72	124.6	Leucocratic microgranite											
N17-13	D. LeFort					121.71	122.17	Fault with a leucocratic microgranite at the upper contact and gouge at the lower contact - with carbonate infill											
N17-13	D. LeFort			MGR		121.71	121.92	Leucocratic microgranite											
N17-13	D. LeFort					122.02	122.17	Gouge and carbonate alteration			Carbonate	m							
N17-13	D. LeFort					125.49	127	Weak hematized(?) pink-coloured ser zone											
N17-13	D. LeFort	130.6	144.2	BRX	Brecciated zone of schist/slate contains dark bluish-grey graphite. Clasts are sub-rounded and contain py-mar with minor cpy within the schist-slate. The matrix is composed of white clay/ser +/- cb, however, it is predominantly clast supported (>95%). Two large faults occur - one contains white cb, and the other contains grey chalcedony with small brecciated fragments of the schist-slate less than 4 mm wide with the exception of a large ~20 cm wide fragment. Py mineralization is sporadic and low. Cpy mineralization is rare. Py mineralization occurs as stringers and blebs. The cpy mineralization is associated with py.					Carbonate	Phyllic	1 s	1	0.1					
N17-13	D. LeFort					135.21	138.61	Strong pervasive carbonate alteration gives the rock a yellowish-green colour			Carbonate	s							
N17-13	D. LeFort					140.86	141.71	Fault comprises breccia with >90% chalcedony matrix with the exception of a large schist-slate enlave											
N17-13	D. LeFort					143.4	144.18	Fault contains gouge and suspected leucocratic microgranite intensely altered											

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N17-13	D. LeFort	144.2	158.9	SCH	Intercalated variably porphyritic and foliated leucocratic microgranite with intermittent zones of schist to gneissic schist with uncommon intrusions of leucogranite. The schist contains 10-20% concordant qtz-bands and varies in intensity with a slight red (hem) hue. All lithologies are strongly pervasively alteredby phillic alteration that comprises white-beige-cream coloured ser - weathered to clays, and random zones of pervasive silica alteration. Carbonate veinlets are common and cross cut all lithologies and veinlets. Veinlet intensity varies and is associated to the schist-gneissic schist in one zone and to another zone of increased density of leucocratic microgranite. Qtz-asp-py and qtz-cpy-py veinlets less than 1 mm wide with straight orientations and slightly gradational contacts are the most common within the leucocratic microgranite. Most of the py is weathered to mar - this mar contains a common dendritic pattern that stems from the veinlets. Uncommon, wider (2-4 mm) qtz-asp-py+/-mar veins +/- cb-infill also occur. The thin sulph stringers occur at 70 and <20 deg TCA. The wider veins occur at 60 deg TCA. The tectonic foliation within the schist to gneissic schist is 25-35 deg TCA.				Carbonatem		Phyllic	1 s	4	0.3			asp	0.2
N17-13	D. LeFort					144.18	150.58	Strong stockwork sulph (py-mar+/-cpy+/-asp) stringers predominantly cross cut the schist to gneissic schist											
N17-13	D. LeFort			MGR		152.42	158.87	Zone contains predominantly leucocratic microgranite with interlayers of schist to gneissic schist											
N17-13	D. LeFort					154.58	158.87	Strong stockwork sulph (py-mar+/-cpy+/-asp) stringers predominantly cross cut the leucocratic microgranite											
N17-13	D. LeFort	158.9	185.1	SCH	Fractured gneissic schist to schist with uncommon intrusions of variably foliated and porphyritic leucocratic microgranite and rare leucogranite. The gneissic schist to schist is beige in colour and is variably hematized (red colour). The schist is finely (<1 mm wide) laminated with beige-greenish beige and light brown colours - interlaminated with white qtz-folia that varies in width from <1 mm - 1.5 cm. Some qtz-bands are clear with dark green-black mica grains that give it a darker colour. Qtz-band frequency sporadically increases in some zones to 4-7 per 10 cm. Qtz-bands are uncommonly weakly boudinaged or occur as lenses. The leucocratic microgranite intercepts never exceed 15 cm in width. The gneissic schist to schist is strongly sericitically altered. Cb and white ser are common along folia and fractures that are typically parallel to foliation (30-45 deg. TCA). The foliation at times is folded, and some anastamosing orientations occur. Qtz-sulph (py-mar)-veinlets cut the rock at 70 and 30 deg. TCA. Uncommonly, qtz-sulph veinlets cut the rock at 0 deg. TCA as well. Tr to minor cpy and asp also may occur in these qtz-sulph veinlets.				Carbonatew		Phyllic	1 s	1.5					
N17-13	D. LeFort					165.13	167.13	Brecciated zone associated with dark bluish grey coloured graphitic slate											
N17-13	D. LeFort					164	165.13	Sheeted qtz+/- asp and cpy veinlets are <1 mm wide and cut the schist at 90 deg. TCA; 4-6 per 10 cm					3	0.3			asp	0.35
N17-13	D. LeFort			MGR		179.38	180.56	Fault zone with a leucocratic microgranite intrusion and predominantly graphite and ser; upper and lower contact at 60 deg. TCA; most of the fault comprises healed gouge											
N17-13	D. LeFort	185.1	202.6	SCH	Intercalated and strongly fractured and healed zone of schist and slate (YTT). The schist is strongly to intensely phyllicaly altered comprising of pervasive ser and variably pervasive silica. The foliation of the schist varies from 0-30 deg. TCA as the rock is very broken-up. QSP veinlets are common and vary in size from. Carbonate alteration occurs as veins and veinlets that cross cut all lithologies and infill fractures and earlier veins. There are numerous fractures and small faults with several larger faults and breccia zones that cut the schist. Cpy and asp mineralization is low grade but increases from the previous interval. Cpy mineralization is associated with QSP veinlets as asp is associated with qtz veinlets and veins and within larger fault zones with cb-infill which suggest the asp post-dates the cpy mineralization. Mo mineralization occurs once and is associated with a qtz-py-mar veinlet.				Carbonatem		Phyllic	1 i						
N17-13	D. LeFort					185.1	187.07	Increase in cpy-py and asp mineralization					5	0.5			asp	0.4
N17-13	D. LeFort					186.1	186.13	Strong py mineralization					8						
N17-13	D. LeFort					190.1	190.11	Mo mineralization								0			
N17-13	D. LeFort					190.93	191.02	Fault contains a qtz-vein that is predominantly barren and cuts the rock at 50 deg. TCA											
N17-13	D. LeFort					191.15	191.17	Vuggy cb within a vein											
N17-13	D. LeFort					196.84	198.55	Graphite-rich											
N17-13	D. LeFort					196.84	198.55	Tectonic foliation of 0 deg. TCA											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-13	D. LeFort					198.55	204.41	Cataclasite comprises mostly gouge and healed gouge; upper and lower contact at 15-20 deg. TCA											
N17-13	D. LeFort					198.55	202.59	Main fault comprises gouge material; 60 deg TCA											
N17-13	D. LeFort	202.6	275.8	SCH	Intercalated schist and leucocratic microgranite that is strongly fractured and faulted. The interval contains more schist than leucocratic microgranite however the frequency of leucocratic microgranite increases gradually towards the end of the interval almost synchronously with the decrease in mineralization/veins. There are several qtz-rich - perhaps leucocratic tonalite/alkali feldspar dykelets that cross cut the schist. The schist contains a moderate to strong hem stain throughout the interval. Phyllic alteration overprint is strong throughout the interval and comprises of pervasive ser and silica at moderate to intense intensities. White cb veinlets cross cut all lithologies and infill earlier veins and veinlets. Cb veinlet density is higher at the top of the interval and gradually decreases towards the end of this zone. Stockwork qtz+/-asp+/-py+/-mar+/- cpy veinlets occur throughout the interval and decrease gradually in frequency below 245.36 m. The tectonic foliation in the schist is oriented between 0-30 deg. TCA.				Carbonatem		Phyllic	1 s	8	0.5			asp	0.35
N17-13	D. LeFort					203.21	203.26	Fault at 60 deg TCA											
N17-13	D. LeFort					203.46	203.53	Fault at 45 deg TCA											
N17-13	D. LeFort					202.55	203.58						2	0.2					
N17-13	D. LeFort					206.2	206.4	Fault with asp and graphite within gouge material cuts the rock at 30 deg. TCA											
N17-13	D. LeFort					202.55	245.36				Phyllic	1 i							
N17-13	D. LeFort					245.4	275.84				Phyllic	1 s							
N17-13	D. LeFort					245.4	275.84						2	0.2					
N17-13	D. LeFort					214.31	214.32	Fault contains asp and graphite within gouge and is oriented at 0-5 deg. TCA											
N17-13	D. LeFort					215.09	217.85	Fault zone with predominantly gouge material; fault is oriented at 60 deg. TCA											
N17-13	D. LeFort			MGR		217.85	218.39	Leucocratic microgranite											
N17-13	D. LeFort					222.3	223	Py-mar+/-cpy+/-asp folia are parallel to the tectonic foliation in the schist at 75 deg. TCA											
N17-13	D. LeFort			MGR		224.21	226.3	Leucocratic microgranite; 30 deg. TCA											
N17-13	D. LeFort					225.11	225.12	Fault oriented at 30 deg. TCA contains gouge											
N17-13	D. LeFort					226.34	226.41	Leucocratic tonalite/alkali feldspar dyke is cross cut by sulph-veinlets; 60 deg. TCA											
N17-13	D. LeFort			MGR		229.05	229.35	Leucocratic microgranite; 60 deg. TCA lower contact cross cut by barren qtz vein/dykelet at 90 deg. TCA											
N17-13	D. LeFort					236.7	239.76	Cpy mineralization increases						0.7				asp	0.5
N17-13	D. LeFort			MGR		239.76	241.61	Leucocratic microgranite; at 30 deg. TCA											
N17-13	D. LeFort			BRX		241.61	242.62	Brecciated intercalated zone of leucocratic microgranite and schist; 30 deg. TCA											
N17-13	D. LeFort					243.09	243.1	Fault with gouge at 30 deg. TCA											
N17-13	D. LeFort			MGR		242.62	243.32	Leucocratic microgranite at 20 deg. TCA											

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N17-13	D. LeFort			MGR		242.32	244.79	Leucocratic microgranite; 60 deg TCA											
N17-13	D. LeFort			BRX		250.06	251.12	Fault breccia; with an increase in mineralization veinlets										asp	0.3
N17-13	D. LeFort					251.81	252.06	Strong pervasive green ser											
N17-13	D. LeFort			MGR		257.6	258.71	Leucocratic microgranite; 60 deg. TCA											
N17-13	D. LeFort			MGR		262.58	266.7	Leucocratic microgranite; 30 deg. TCA; with fragments of schist											
N17-13	D. LeFort			MGR		266.97	267.92	Microgranite; 30 deg. TCA; contains 10-20% mafic minerals and appears to be a better host for alteration and mineralization then the leucocratic microgranite											
N17-13	D. LeFort			MGR		268.14	268.81	Microgranite; 30 deg. TCA; contains 10-20% mafic minerals and appears to be a better host for alteration and mineralization then the leucocratic microgranite											
N17-13	D. LeFort			BRX		270.66	275.84	Breccia zone with predominantly schist fragments											
N17-14	L. Wilson	0	3.95	NRC	no core recovered (casing)														
N17-14	L. Wilson	3.95	101.8	MGR	Lithology: Light green-grey very fine-grained (mildly) porphyritic granite (microgranite). Composition is 10% medium-grained sub-euhedral Ksp, 50% vfg sub-euh feldspars (Plag likely), 40% fg anhedral Qz. Subtle foliation of almost wavy mm-scale Qz grains visible, 60CA at 7.50m. Minor zonation of Ksp visible across unit. Small finger of med-grain equigranular granite (~40% Qz, 45% fspars, 15% disseminated limonite after Py or mafics?) observed from 20.17-22.68m, with a transitional upper contact and sharp lower contact with MGR. Fragment of MGR within GRA at upper contact suggests the GRA intruded the MGR. Additional finger observed from 76.55-77.20m. Some patches of the microgranite are easier to identify the composition in than others, due to the Fe-oxidation and yellow-orange staining of some of the feldspars. Alteration: Alteration assemblage is moderately phyllic (sericitization of felds + pervasive silicification + minor Chl), with a late Fe-oxidation overprint. Rusty limonite stringers through unit (typically up to 10/m, though more in some patches), likely after Py. Semi-transparent buff-grey Qz veinlets observed, mostly sheeted (30-45CA, ~25-40/m), but also patches of more chaotic texture (18.1-19.6m). Alteration haloes observed surrounding veinlets (typically with mineralization, envelope usually sub 5cm), comprised of Sil-Ser, as well as light green pastel Ser hairline stringers. The alteration halo appears to be related to the greyish Sil-Ser veinlets observed throughout this intercept. Mineralization: Trace-minor Py observed in this oxidized zone, with remnant stringers and disseminations observed in patches of less Fe-oxidation. That said, limonite stringers are throughout unit, likely replacing Py. A Qz veinlet was observed at 28.2m with clots of limonite that resemble the habit of Py and Cpy seen in previous hole (N17-10), suggesting it is replacing sulphides. Qz veinlet (45CA) observed at 59.0m with clots of Asp with blackish-blue oxidized rinds. This blackish-blue lustrous mineral observed in a veinlet at 63.75m, intergrown with Py (+ marcasite) and Asp, and is sometimes observed weakly disseminated in greyish diffuse Qz veinlets (87.15m, 96.05m). Sulphides: 0.01% Py, 0.01% Asp, 0.01% SS			Iron	m	Phyllic 1	w	0				Asp	0.01
N17-14	L. Wilson					7.5	7.62	Subtle alignment of granophyre Qz grains (60CA)											
N17-14	L. Wilson					13.27		Reduce HTW to NTW											

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N17-14	L. Wilson					20.17	22.68	Finger of med-grain equigranular granite (~40% Qz, 45% fspars, 15% disseminated limonite after Py or mafics?) observed from 20.17-22.68m, with a transitional upper contact (55CA) and sharp lower contact (30CA) with MGR. Fragment of MGR within GRA at upper contact suggests the GRA intruded the MGR.											
N17-14	L. Wilson					28.2		Qz veinlet (50CA) observed with clots of limonite, amoeboid in shape and similar texture to habit of Py and Cpy seen in previous holes (N17-10) in veinlets within microgranite.											
N17-14	L. Wilson					29.8	30	Sil-ser vein (25CA) with sharp upper margin (defined by oxidized stringer) and more diffuse lower margin, grading into thin veinlets.											
N17-14	L. Wilson					34.35		Minor specks of blueish-black sulphosalts(?) up to 1mm in size within Qz veinlet network											
N17-14	L. Wilson					36.27	36.84	5cm-wide low angle (20-25CA) Qz-Ser brecciating vein, with fragments of MGR up to 5cm. Wisps of Sil-Ser veinlets offshooting from this alteration vein, parallel and perpendicuar to vein orientation. Minor fg Chl within vein as well.											
N17-14	L. Wilson					48.64	48.79	Grey Sil brecciating vein (35CA) observed, with 1cm fragments of subrounded wallrock											
N17-14	L. Wilson					52.34		Trace 0.5cm bleb of metallic dark grey Asp(?) observed in crosscuting Lim-replaced stringers or veinlets (20CA and 30CA). Bleb is oxidized, with black non-lustrous mineral forming rims and hairline network within bleb. Immediate surrounding rim of bleb is pastel green Ser (or Cu-oxide?).											

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N17-14	L. Wilson					57.35	57.51	Patch of less Fe-oxidation, with Py disseminated throughout and intergrown with a black earthy mineral (tarnished Asp?)											
N17-14	L. Wilson					59		Qz veinlet (45CA) with clots of silvery Asp, tarnishing to dark black along the margins. The tarnshed Asp appears similar to the dark grey/black earthy rim seen just previously uphole. Alteraton envelope 3cm-wide around this veinlet (Sil-Ser, armoured from Fe-oxidation), with light pastel green Ser rind along outer vein margin.											
N17-14	L. Wilson					63.75		Veinlet with dark blue-grey/black mineral (sulphosalt?), Py and trace Asp. It is lustrous, but not metallic, and appears as rinds on Asp clots within veinlet, though appears in dendritic masses or clots, whereas there is still some Asp visible (if it were simply tarnished Asp would expect the smaller clots of Asp to be fully gone to this mineral..). Has 4cm-wide alteration halo of Sil-Ser, veinlet is of different generation than other Qz veinlets observed											
N17-14	L. Wilson					67.3	69.1	Late grey and milky-white undulating Qz-Carb(Adularia??) veinlets (10-20CA), with offshooting undulating veinlet sets at 60CA. Appears to crosscut earlier alteration Qz-Ser veinlets, and be unrelated.											
N17-14	L. Wilson					72.68	72.9	Increase in Sil-Ser veinlets (30CA), 20% of intercept											
N17-14	L. Wilson					76.55	77.2	Minor fine-grained granitic interval (GRA). Contacts are subtle (80CA upper and 70CA lower), but there is a marked change in grain size from the MGR, and the FeOx alteration is quite different than that seen in MGR (30% clots and dendrites of Lim in groundmass).											

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N17-14	L. Wilson					87.3	100	Intercept of increased porphyritic feldspar texture within MGR, Ksp's are anhedral-subhedral, 20% and med-grained.											
N17-14	L. Wilson					89.7	90.07	Silicified breccia vein with minor sericite (20CA), with fragments of silicified wallrock.											
N17-14	L. Wilson	101.8	228.9	MGR	Lithology: Light grey-green very-fine grained granite, with patchy porphyritic feldspar texture (MGR, same lithology as previous). Alteration-based upper contact, with an increase in Py mineralization. Minor QFP dyke intersected from 151.50-153.06m with Qz eyes, Py clots and porphyritic feldspars, and minor intersections from 164.36-164.49 & 185.49-185.72m. Alteration: Moderately phyllic assemblage (sericitization + silicification + pyrite +/- Chl), with an increase in Py mineralization compared to previous interval. Grey diffuse Qz veinlets continue through unit with pervasive sericitization of feldspars and groundmass. Pyrite visibly disseminated throughout and occurring as stringers (not fully Fe-oxidized as previous interval was), often chaotic in orientation. Late Fe-oxidation occurs predominantly on fractures (limonite and pyrolusite/Mn-oxide, occasionally a blackish brown semi-lustrous mineral) in upper portion of interval, and frequency decreases downhole. Patchy green Ser-Chl alteration haloes surrounding Py stringers throughout unit. Increased pyritization observed within some patches, with dendritic disseminations up to 3% and patchy increased pervasive silicification. Mineralization: Increased Py throughout interval (compared to previous), occurring as disseminations, stringers and as clots in Qz veinlets. As mentioned above, patchy zones of increased dendritic disseminations of Py observed, as fine-grained, brownish-black and sooty. Trace Asp observed as clots in Qz-Py veinlets (120.35m, 127.70m, 140.45m,) and disseminated in the vein selveges. Possible trace Bor(?) observed on fracture surface, intergrown with Py at 125.3m (20CA), peacock-bluish purple tarnish. Trace Cpy observed intergrown with Py in Qz-Py veinlets, up to 1mm clots. Sulphides: 1% Py, 0.01% Asp, 0.01% Cpy, 0.01% Sph, 0.01% Bor(?)				Phyllic	1	m		1					Asp	0.01
N17-14	L. Wilson					114.2		Patchy forest-green Ser-Chl alteration haloes surrounding Fe-oxidized Py stringers											
N17-14	L. Wilson					120.35		Undulating Qz-Py veinlet (25CA) with FeOx (Lim) rind, observed with trace clot of Asp											
N17-14	L. Wilson					122.1	123.8	Increased dendritic disseminated Py clots (dark brownish black and sooty) across short interval, up to 3%											
N17-14	L. Wilson					125.25	125.45	Fracture surface (20CA) with fg Chl, Py, Lim and peacock bluish-purple tarnished mineral. Appears to resemble Bor, though perhaps could be a Mn Oxide?											
N17-14	L. Wilson					127.9	129.55	Patchy increased dendritic disseminations of Py clots, up to 2% across intercept											
N17-14	L. Wilson					127.7		Qz-Py veinlet (30CA) with clots of Asp intergrown with Py, and minor Asp disseminated in vein selveges. Veinlet exhibits a Fe-oxidized rind, and crosscuts other oxidized Py stringers (50CA)											

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N17-14	L. Wilson					132.35	132.6	Minor Qz stockwork vein, with minor disseminated dendritic Py. Qz is grey and diffuse, silicifying surrounding wallrock, centred around a grey Qz-Py veinlet (35CA). Wallrock is silicified until 133.1m, and diffuse Qz veinlets throughout, with minor brecciation.											
N17-14	L. Wilson					133.4	133.55	Grey calcedonic Qz and creamy white veining infilling breccia											
N17-14	L. Wilson					134.82	135.02	Short interval of medium-grained granite. No chilled margins, simply an abrupt increase in grain size.											
N17-14	L. Wilson					140.45		Trace bleb of Asp observed in remnant Qz-Py(?) veinlet (60CA, 1cm-wide), completely Fe-oxidized (besides bleb of Asp).											
N17-14	L. Wilson					146.61		Qz-Py-Asp veinlet (70CA), with minor disseminated Asp in selveges											
N17-14	L. Wilson					149.85	151.5	Patchy green Ser-Chl veinlet haloes surrounding chaotic Py stringers											
N17-14	L. Wilson					151.5	153.06	Grey-green QFP dyke. Aphanitic groundmass, mm-scale Qz eyes rimmed by Py observed, and Py clots throughout (4% Py).											
N17-14	L. Wilson					163.1	164.2	Increased intensity of green Sil-Ser stringers (range from 35-60CA), up to 30/m											
N17-14	L. Wilson					164.26	164.64	Short intercept of grey-green aphanitic to fg QFP dyke(?) from 164.36-164.49m. Small finger of QFP, surrounded by sharply bounded pervasive strong Sil-Ser alteration.											
N17-14	L. Wilson					164.7	165.55	Brittle brecciation of wallrock by Sil-Ser veinlets, minor Py disseminated within Ser-Sil veining											
N17-14	L. Wilson					168.9	171.8	Interval of increased disseminated dendritic Py, with an increase in pervasive silicification and porphyritic texture (with zoned Ksp's)											
N17-14	L. Wilson					173.27	173.43	Qz-Py-Asp veinlet (1cm-wide, 25CA)											
N17-14	L. Wilson					174.32		Qz-Py-Asp veinlet (1cm-wide, 50CA)											

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N17-14	L. Wilson					185.49	185.72	QFP dyke, with 5% Py disseminated and disarticulated stringers, and rare Qz eyes rimmed with Py. Margins of dyke are not chilled, though there is a 4-5cm wide silciified and sericitized envelope around dyke.											
N17-14	L. Wilson					191.6	191.85	Patch of increased sericitization, brecciated wallrock fragments visible and Py stringers observed (40CA)											
N17-14	L. Wilson					195.3	196.2	Green Chl-Ser alteration haloes around Py stringers and disseminated dendritic clots observed, up to 0.5cm wide											
N17-14	L. Wilson					196.22	196.8	Vuggy Qz-Py veinlets (0.5cm) with clots of Py (+ marcasite) and Sph, somewhat disarticulated and brittle. Trace Cpy (1mm clots) observed intergrown with Py, and disseminated Asp in vein selveges. Vuggy veinlet with Cpy low angle (15CA) crosscutting a Qz-Py veinlet of same generation (0.5cm, 55CA)											
N17-14	L. Wilson					199		Grey semi-transparent veinlet (70CA, 0.4cm-wide) observed crosscutting Py stringer (50CA)											
N17-14	L. Wilson					204.25	206.6	Green Chl-Ser alteration envelopes around Py stringers											
N17-14	L. Wilson					206.8		0.5cm-wide Qz-Py veinlet (55CA) with clots of Asp, and minor disseminated Asp in selvege											
N17-14	L. Wilson					209.75	224	Zone of increased Py mineralization (2-3% overall) as disseminated dendritic clots and aggregations around stringers (typically with green Chl-Ser haloes)											
N17-14	L. Wilson	228.9	265.2	MGR	Lithology: Continuation of previous unit, patchy porphyritic Ksp microgranite. Alteration based upper contact - increased Chl-Ser, decreased Py mineralization compared to previous interval. Alteration: Phyllic alteration assemblage (Sericite + Silica + Pyrite + Chl), appears to be overprinting a proplytic assemblage of Chl-Ser. Some patchy Chl-replaced phenos visible, whereas previously any mafics would have gone to Py. A crosscutting relationship is visible at 257.57, with a Py stringer crosscutting a low angle wispy, sheeted Chl veinlet. A Chl matrix-filled breccia observed from 240.05-240.35m (20CA), with minor disseminated Py through wallrock fragments. Yellowish-green Ser veinlets throughout unit, similar to previous interval. Ser veinlets typically somewhat sheeted (60-70CA), with some more chaotic breccias observed (245m, 250.85m, 253.05m). Mineralization: Minor decrease in Py mineralization from previous interval down to less than 1%, with a decrease in Py stringers and disseminations. Clots of Asp observed in Qz-Py-Asp veinlets with minor disseminated Asp in veinlet selveges at 248.9m (40CA) and 259.18m (25CA). Trace Cpy and sulphosalts observed as clots in a veinlet at 259.18m. Sulphides: 0.5% Py, 0.01% Asp, 0.01% Cpy, 0.01% sulphosalts				Phyllic	1	m	propylitic	w	0.5	0			asp	0.01

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N17-14	L. Wilson					237.57		Py stringer (55CA) crosscutting low angle hairline wispy Chl veinlets (5CA)											
N17-14	L. Wilson					240.05	240.35	A Chl matrix-filled breccia observed (20CA), with minor disseminated Py through wallrock fragments.											
N17-14	L. Wilson					248.9		Clots of Asp observed in a 1mm-wide Qz-Py-Asp veinlet (40CA), with minor disseminated Asp in veinlet selvege.											
N17-14	L. Wilson					259.18		Anastamosing Py veinlet (0.5cm, 25CA) with minor intergrown Asp and Cpy clots, with trace dendritic sulphosalts, and clots of Asp in the vein selveges.											
N17-14	L. Wilson					264.09	264.19	Green Ser-Chl alteration vein (2cm-wide, 30CA), with minor diss Py and wallrock fragments.											
N17-14	L. Wilson	265.2	324.2	GRA	Lithology: Fine-medium grained equigranular Bt granite, with 40% anhed Qz, 45% sub-euh felds, and 15% ragged subhed Bt (where less altered). Leucocratic MGR intercept within this unit, from 270.0-274.35m, with sharp contacts though no obvious chilled margins. Alteration: Moderate to patchy strong phyllic alteration assemblage (QSP). Minor weakly altered patches with primary Bt visible (sometimes Chl-altered; within 265.20-278.9m, 303.5-305.5m), whereas remainder has gone to Py (patchy Chl in less altered sections). Green Ser common across interval, replacing felds and seemingly more abundant in selveges of nearby Qz-Py veinlets, and occurs as hairline stringers and veinlets. Pyrite intensity has increased from previous unit, occuring as stringers, clots and disseminated throughout. Alteration haloes observed around Qz-Py (+/- Asp) veinlets within zones of weaker alteration, typically up to 5cm across. Qz-Py veining has increased in this interval as well, occuring ~2/m or so. Patchy carbonate alteration observed as well, with diffuse buff-orange alteration "veins" occurring carrying increased disseminated Py. Mineralization: Pyrite moderately mineralized throughout, occuring as disseminations, clots and stringers. The disseminated Py is typically mm-scale blebs (after Bt likely), but is also observed as disarticulated dendritic clots in some patches (similar to what was seen in MGR). Seems to be an increase in Asp and Cpy mineralization from last interval as well, with clots and blebs occuring in Qz-Py veinlets, and Asp disseminated in the veinlet selveges (from 265.20-301.0m,). QSP selveges observed in zones of more Ser-alteration of felds and decreased Py, with the Py occurring as clots in the 1cm envelope. Sulphides: 2% Py, 0.02% Asp, 0.01% Cpy, 0.01% SS				Phyllic	1	m	2	0				Asp	0.02
N17-14	L. Wilson					270	274.35	Leucocratic MGR intercept, with sheeted pale green sericite stringers (30CA), and minor pyrite mineralization (less than 1% as few stringers and disseminations).											
N17-14	L. Wilson						277.63	Alteration halo surrounding 1cm Qz-Py-Asp veinlet (277.63m, 50CA) 7cm wide (total width),of phyllic origin within a relatively unaltered patch of Bt granite.											
N17-14	L. Wilson					281.95		Qz-Asp-Py veinlet (60CA) with clots of Cpy											
N17-14	L. Wilson					282.6		Carbonate alteration vein (2cm across 70CA), buff-orange with disseminated Py throughout.											
N17-14	L. Wilson					284.65		3cm wide silicified greyish-white vein (60CA), with texture reminiscent of the vfg leucocratic MGR, with undulating margins.											

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N17-14	L. Wilson					289.45	289.5	Disarticulated Qz-Py vein with large clots of cubic Py (largest is a 2cm wide clot), and silciified surrounding wallrock. No orientation or additional mineralization observed.											
N17-14	L. Wilson					289.56	292.36	Zone of sheeted dendritic, disarticulated stringers of Py (45CA).											
N17-14	L. Wilson					298.6	299	Small zone of grey Qz brecciation and disarticulated veinlets observed with disseminated Py											
N17-14	L. Wilson					299.35	299.44	Sulphide HBx. 3cm-wide discrete HBx (50CA) with fg disseminated brown Py, Py clots and Asp clots. Hbx contains rounded feldspar and Qz fragments, and has diffuse, wavy Qz-Py veinlets flanking its margins.											
N17-14	L. Wilson					303.5	305.5	Weakly phyllically altered zone, with Chl-replaced Bt visible and weak disseminated Py.											
N17-14	L. Wilson					307.9	308.15	Late Cal veining (15CA), abruptly changes direction along a fracture (35CA), and contains rafts of Py											
N17-14	L. Wilson					310	313.9	Weakly altered, Chl-replaced Bt observed with weak disseminated Py											
N17-14	L. Wilson					316.9	317	Zone with disarticulated Py stringers, buffy-pink somewhat disarticulated clay hairline stringer (30CA), and Py stringers (45CA). Along margin of light buffy-pink stringer, a remobilized clot of boitroidal sulphosalts (3mm long, dark greyish blue) observed, and in selvege trace Cpy and Mo blebs observed											
N17-14	L. Wilson					317.75	317.8	3cm wide breccia with Cal replacement of matrix, and Py stringers along the margin (25CA)											
N17-14	L. Wilson					319.1	322.8	Intercept of patchy Fe-rich hematized feldspars, with patchy weak carbonate alteration											
N17-14	L. Wilson					321.1		Trace sub-mm blebs of sulphosalts and Cpy observed in selvege of a Py stringer (30CA)											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-14	L. Wilson					323.1	323.9	Interval with minor light buffy-pink chaotic carbonate veining, and Py stringers, appear to be synchronous, with Py stringers occurring along margins as well as disseminated in disarticulated carb margins.											
N17-14	L. Wilson	324.2	368.1	GRA	Lithology: Same lith as previous, fine-medium grained equigranular Bt granite, with 40% anhed Qz, 45% sub-euh felds, and 15% ragged subhed Bt (where less altered). This intercept is less altered than previous interval. Last metre of interval before lower contact with MGR is somewhat mottled, and appears to have undergone minor deformation. Fabric of feldspars (and Ser-altered phenos) observed at 367.3m (45CA), with an increase in alteration towards lower contact. Alteration: Patchy moderate phyllic alteration assemblage (QSP) and late weak pervasive carbonate. Minor weakly altered patches with primary Bt visible, though majority gone to Chl (and partially Py). Green Ser common across interval, replacing felds and more abundant in selveges of nearby Qz-Py veinlets, and occurs as hairline stringers and veinlets. Pyrite intensity has decreased compared to previous unit, occuring as stringers, clots and disseminated throughout. Alteration haloes observed around Qz-Py (+/- Asp) veinlets within zones of weaker alteration, typically up to 5cm across. Mineralization: Pyrite weakly mineralized throughout, occuring as disseminations, clots and stringers. The disseminated Py is typically mm-scale blebs (after Bt likely), but is also observed as disarticulated dendritic clots in some patches (similar to what was seen in MGR). Seems to be an increase in Asp and Cpy mineralization from last interval as well, with clots and blebs occuring in Qz-Py veinlets, and Asp disseminated in the veinlet selveges (from 265.20-301.0m,). QSP selveges observed in zones of more Ser-alteration of felds and decreased Py, with the Py occurring as aggregated clots and disseminations in the 1cm envelope. Sulphides: 1% Py, 0.02% Asp, 0.01% Cpy, 0.01% Sph				carbonatew		Phyllic 1	w	1	0			Asp	0.02
N17-14	L. Wilson					331.5		Zone of increased mineralization. Qz-Py-Asp veinlets have increased to 1/m, and occurrence of coarser grained mineralization has been observed. Abundant clots of dark brownish-red adamantine Sph observed in a Py-Sph stringer (338.85m, 10CA)											
N17-14	L. Wilson					333.9	334.05	Qz-Asp-Py vein set, with 2cm-wide vein (70CA) of massive Asp with Py and Cpy. Margins of vein are dark grey-green and chloritized, with a significant 20cm-wide alteration halo in surrounding wallrock.											
N17-14	L. Wilson					333	336.2	Occurrence of milky white, semi-transparent Qz veinlets with Py mineralization (~1/m, 20CA). They are undulatory and haven't been observed in this hole until now. Qz-Py vein at 336.2 is overprinting a more chalcedonic Sil-Ser alteration.											
N17-14	L. Wilson					338.85		Py-Sph stringer (10CA) with trace clots of Cpy. Sph is dark brownish-red, adamantine, and in clots throughout stringer.											

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N17-14	L. Wilson					343.56	343.83	2-3 cm-wide Qz-Cal vein (20CA) with minor clots of Po, Asp, and Cpy. Vein pinches and swells, is undulatory and cuts through a disseminated 4cm-wide Py clot. The alteration is moderate surrounding vein, as there are other veinlets in the near viscinity.											
N17-14	L. Wilson					359.45		Qz-Py veinlet (0.4mm wide, 60CA) with clots of Asp, crosscut and offset (no other half visible) by undulatory Qz-Cal-Py (+Ser) vein (1cm wide, 20CA).											
N17-14	L. Wilson					360.55		Qz-Asp veinlet (65CA, 0.5cm wide)											
N17-14	L. Wilson					363.8		Qz-Py vein (2cm wide, 30CA) with clots of Asp, and Asp disseminated in selveges of vein											
N17-14	L. Wilson					366.05		Qz-Asp-Py-Cpy veinlet (0.4cm, 60CA) crosscutting beige yellow carb veinlet											
N17-14	L. Wilson					367.3	368.05	Fabric of feldspars and Ser-altered phenos (45CA), also marks and an increase in chaotic Py stringers in the transition to MGR.											
N17-14	L. Wilson	368.1	370.9	MGR	Lithology: Light grey-green very fine-grained to porphyritic leucogranite (microgranite). Upper 1.20m of unit is strongly mottled and silicified, and is transitional with the upper equigranular mg granite. Ghosty subhed Ksp phenos visible, and fine-grained ragged, elongate Chl-replaced Bt visible (sometimes gone to Py). Lower contact with YTT (meta-volcanics) is sharp, with minor alteration occurring along the margin. Alteration: The upper portion of the unit is strongly silicified, whereas from 369.25m to the lower contact exhibits a weak-moderate phyllic assemblage (Sil + Ser + Py + Chl). Patchy clots of Py occur thoughout unit, along with stringers and weak disseminations. Mineralization: Py mineralization weakly observed as disseminations, stringers and in few Qz-Py veinlets (1/m). Seems to be a minor increase in Py within silicified intercept, from 368.05-369.25m, whereas in weak phyllic zone, Chl seems to replace mafics more readily. Trace blebs of Asp and Mo observed in selvege of xcutting Py stringers (369.4m), and Asp and Cpy observed as blebs in Qz-Py veinlet (30CA, 370.75m). Sulphides: 1% Py, 0.01% Asp, 0.01% Cpy, 0.01% Mo			Silica	s	Phyllic 1	w	1	0		0	Asp	0.01
N17-14	L. Wilson					368.05	369.25	Strongly silicified, texture is mottled, transitional with the upper GRA, patchy clots of Py occur through intercept.											
N17-14	L. Wilson					369.4		Trace blebs of Asp and Mo observed in selveges of xcutting Py stringers and nose of Py vein											
N17-14	L. Wilson					370.75		Minor blebs of Asp and trace Cpy observed in Qz-Py veinlet (1cm, 30CA), and disseminated Asp in selveges											
N17-14	L. Wilson	370.9	374.5	Metamorphic	Lithology: Dark green meta-volcanics of the Yukon Tanana group (YTT). Segregated felsic layers of Qz interspersed with Chl and Bt-rich layers, strongly foliated (65CA at 372.0m). Minor deformation observed, with some mottling of layers, particularly towards lower contact at 374.48m (alteration contact to strong carb alt). Alteration: Minor propylitic alteration assemblage (Chl + Ep + Py) observed, likely with a weak phyllic overprint (though not exceptionally silicified or sericitized besides flecks of feldspars). Py blebs disseminated throughout, with trace Po observed. Mineralization: Py observed throughout unit, disseminated and as stringers, with minor blebs of disseminated Po. Sulphides: 1% Py, 0.02% Po			Phyllic 1	w	propylitic	w	1		0			

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N17-14	L. Wilson					373.71	373.84	Minor dykelet of MGR, blobby and across foliation of meta-volcanics. Feldspar phenos are foliated within MGR dykelet (~90CA)											
N17-14	L. Wilson	374.5	379	Metamorphic	Lithology: Moderately altered and deformed meta-volcanics of the Yukon Tanana group (YTT). Alteration: Moderate carbonate alteration observed in unit (overprinting phyllic?), with bleaching of layers and alteration of mafics to clays and carbonates. Unit is pervasively weakly silicified, with Py disseminated and stringers throughout. Mineralization: Py moderately mineralized across unit, disseminated and occurring as stringers. Trace clots of Cpy, Asp and sulphosalts observed in somewhat banded Qz-Py veinlets. Sulphides: 3% Py				carbonatem		Phyllic 1	w	3						
N17-14	L. Wilson					378.3		Qz-Py veinlet (0.5cm, 40CA) with trace Cpy											
N17-14	L. Wilson					378.6		Qz-Py veinlet (0.4cm, 15CA) with trace clots and blebs of Asp and sulphosalts											
N17-14	L. Wilson	379	431	GRA	Lithology: Same fine-medium grained equigranular Bt granite seen previously uphole, with 40% anhed Qz, 45% sub-euh felds, and 15% ragged subhed Bt (where less altered). Upper contact is somewhat transitional to this granitic unit, with minor (sub 50cm) intercepts of MGR and YTT. Core is broken, and with the faulting and alteration it is difficult to sharply define contacts, but MGR is visible from 379.0-379.48m, 379.65-379.88, and 380.0-380.35m. YTT occurs between one of the MGR intercepts, from 379.48-379.65m. Contact looks like MGR dykes coming along the YTT contact, and the granite intruding along this contact afterwards. Alteration: Patchy moderate phyllic alteration assemblage (QSP) and late weak pervasive carbonate. Minor less-altered patches with primary Bt visible, though majority gone to Chl (and partially Py). Green Ser common across interval, replacing felds and more abundant in selveges of nearby Qz-Py veinlets. Pyrite is overall weakly mineralized, occuring mostly as clots and disseminations, with minor stringers throughout. Alteration haloes observed around Qz-Py (+/- Asp) veinlets within zones of weaker alteration, typically up to 5cm across, bleaching and altering feldspars to Ser. Some clots of Py-Carb occur up to 5cm from 385.57-387.6m, amoeboid and connected by stringers. These occur in intercepts with increased clay-altered feldspars, green Ser and carbonate alteration. Mineralization: Pyrite weakly mineralized throughout, occuring as disseminations, clots and less commonly stringers. The disseminated Py is typically mm scale blebs (after Bt likely), with some aggregations into clots (connected to other clots by stringers), and occurring as dendritic disseminations in selveges around stringers. Additional trace mineralization observed, including Po, Cpy and SS blebs in Qz-Py veinlets, Sph in Carb-Sph stringers and Qz-Py veinlets (394.4m, 398.6m, & 413.75m), and Bis(?) in a Qz-Chl stringer alongside a Qz-Py veinlet (393.37m). Sulphides: 1% Py, 0.01% Asp, 0.02% Po, 0.02% Cpy, 0.02% Sph, 0.01% Bis				carbonateW		Phyllic 1	w	1	0	0		Sph	0.02
N17-14	L. Wilson					379	379.48	MGR intercept, pocked out Ksp(?) observed and vfg feldspars visible.											
N17-14	L. Wilson					379.65	379.88	MGR intercept (aphanitic, dull light grey, could also be altered YTT?)											
N17-14	L. Wilson					380	380.35	MGR intercept (aphanitic, dull light grey, could also be altered YTT?)											
N17-14	L. Wilson					381.05		Po and Cpy observed in Py stringer											
N17-14	L. Wilson					385.57	387.6	Clots of Py-Carb observed in this zone of increased Ser-alteration, amoeboid with stringers occurring between clots.											
N17-14	L. Wilson					388.4		2cm-wide grey Qz-Cal vein (30CA), with sulphosalts disseminated in selvege											
N17-14	L. Wilson					392.7		Trace Asp observed in Py alteration halo of a Py stringer											
N17-14	L. Wilson					393.4		Trace clot of bismuthinite(?) observed in a thin Chl-Py stringer (45CA) parallel to a Qz-Py veinlet (1cm), which is crosscut by a Py stringer (35CA)											

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N17-14	L. Wilson					394.05		Trace clots of Sph and SS observed in a thin Qz-Py veinlet (40CA)											
N17-14	L. Wilson					394.4		Blebs of Sph observed in a Cal-Sph stringer (45CA)											
N17-14	L. Wilson					397.9		Asp stringer observed (70CA) with minor segment of Po. Crosscut(? Or synchronous) by Qz-Carb-Py veinlet (45CA, 1cm-wide, undulatory and diffuse).											
N17-14	L. Wilson					398.6		Sph clots (dark brown, adamantine) observed in Qz-Py veinlet (0.4cm)											
N17-14	L. Wilson					410.4	417.7	Interval with light green Ser-Cal filled fractures (40-55CA), increased zone of rubble and soft clays											
N17-14	L. Wilson					413.75		Py-Sph stringer (40CA) with trace blebs of Cpy											
N17-14	L. Wilson					420.85		Asp-Py stringer (60CA, 2mm-wide), lacking a phyllic-alt halo, whereas nearby Py stringer has a 1 2cm wide halo with increased diss Py											
N17-14	L. Wilson					421.52		Qz-Asp-Py veinlet (50CA, 0.4cm wide) with trace Cpy blebs											
N17-14	L. Wilson					423.5	431	Increased carb and ser-alteration of feldspars, very soft with little silicification.											
N17-14	L. Wilson					422.96		Trace Asp and SS observed in Py stringer (alongside a grey matte chalceodonic Qz-Ser vein (40CA, 2cm-wide) with Py clots											
N17-14	L. Wilson					429.18	429.35	4cm-wide fine-grained light grey felsic segregation(?) No chilled margins, xtls are homogenous throughout, ~60% Qz, 40% feldspars (lath-like plag). Crosscut by Qz-Py veinlet and Py stringers, pre-dates mineralization.											
N17-14	L. Wilson	431	458.1	QFP2	Lithology: Light grey-green fine-grained quartz-feldspar porphyry (NOT your typical QFP dyke or relative of that unit, a totally different quartz-feldspar porphyry - originally thought to be intrusive intermediate crystal tuff?). Fine-grained plag laths across unit up to 30%, with mod-coarse grained euhedral Ksp (10%), occasional Qz eyes observed, and remainder aphanitic groundmass (possibly made up of Qz?). Minor contact breccia with fragments observed at upper contact with granite. Subtle increase in more crystal-rich sections observed, and some patches more suseptible to Py-replacement (446.0m). Upper and lower contacts with the granite exhibits an aphanitic chilled margin. Granitic enclave observed from 446.22 to 44.20m, with minor disarticulated Py stringers and minor Cpy and SS mineralization. The QFP unit exhibits chilled margins surrounding this block of granite that must have fallen into the pluton as it was intruding. Alteration: Weak-moderate phyllic assemblage (Py + Ser +/- Sil) across the interval, with a minor pervasive carbonate overprint exhibited. Moderate pyrite mineralization occurs as disseminations, clots, and stringers across the interval. Alteration haloes of two types observed surrounding Py stringers: 1) disseminated Py haloes, typically up to 3cm wide, and 2) 1cm-wide lighter in colour Ser +/- Sil haloes. Silicificiation slightly increases towards base of unit, from 456.85-458.11m, Mineralization: Pyrite occurs predominantly as disseminations (4% overall), though is also observed as stringers and aggregations or clots. Py also observed as chadacrysts within megacrystic Ksp oikocrysts. Trace Cpy observed disseminated and intergrown with Py in Ksp oikocrysts (435.5m). Minor arsenopyrite observed as clots in Qz-Py veinlets, and sulphosalts observed as disseminated blebs and clots in stringers. Sulphides: 5% Py, 0.02% Asp, 0.02% Cpy, 0.02% SS				carbonatew		Phyllic 1	m	5	0				Asp	0.02

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N17-14	L. Wilson					432.38		Trace SS and Cpy blebs observed in Py stringer											
N17-14	L. Wilson					433.25	433.45	Low angle banded Py veinlet (0.4cm-wide, 15CA) with bands of Py, marcasite and Asp. Disseminated pyritic halo surrounding veinlet, trace Asp disseminated in selvege											
N17-14	L. Wilson					434		Fragment of less-pyritic wallrock (8cm x 4cm)											
N17-14	L. Wilson					435.25		Py stringer (35CA) with clots of Asp											
N17-14	L. Wilson					435.5		Trace Cpy observed rimming Py chadacrysts within Ksp oikocryst											
N17-14	L. Wilson					436.9		Trace Cpy bleb observed in disseminated Py clot											
N17-14	L. Wilson					438.6		Crystalline Asp mineralization observed on a fracture surface, as part of a Asp-Py stringer (30CA). Light ser alteration halo surrounding veinlet											
N17-14	L. Wilson					443.2		Trace bleb of Cpy observed in selvege of Py stringer (50CA) with light Ser-Sil halo (1cm-wide), offset 3cm by a low angle (10CA) black Qz-Cal-Py veinlet											
N17-14	L. Wilson					442.8	443	Brecciating black chalcedonic Qz veinlets (5% overall across subint)											
N17-14	L. Wilson					445	445.3	Low angle Qz-Carb-Py veinlets (15CA), anastamosing and undulating. Qz is dark grey, chalcedonic, with fg Py throughout.											
N17-14	L. Wilson					446		Stratified texture observed (flow foliation?), with medium-grained felds-phyric layer on top of a light grey-green fine-grained sugary layer, which is on top of the grey Py-rich fine-grained layer.											
N17-14	L. Wilson					446.22	447.2	Granite enclave, with undulating contacts (25CA upper and 10CA lower), both exhibiting chilled margins within tuff.											
N17-14	L. Wilson					448.1		Interval of increased sulphosalt mineralization in stringers (50-65CA), ~2/m											
N17-14	L. Wilson					448.2		Sulphosalt blebs in Py stringer											
N17-14	L. Wilson					448.4		Sulphosalt blebs in Qz-veinlet/stringer											

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N17-14	L. Wilson					449.54		Reflective, grey, soft metallic mineral (sulphosalt likely) in Cal stringer (80CA)											
N17-14	L. Wilson					449.95		Sulphosalt blebs in Py stringer (70CA)											
N17-14	L. Wilson					452.4		Trace SS blebs in Py stringer											
N17-14	L. Wilson					452.55		Trace SS blebs in Py stringer											
N17-14	L. Wilson					451	455.2	Blotchy clots of Py observed in this interval, amoeboid and somewhat rounded, 1-2cm in size											
N17-14	L. Wilson	458.1	490.7	GRA	Lithology: Same equigranular medium-grained light grey-green to somewhat leucocratic granite as seen previously uphole. Alteration: Weak phyllic assemblage (Sil + Ser + Py + Chl), oveprinted by weakly pervasive carbonate alteration. Increase in sericitization at top of unit, resulting in feldspars gone to clay from 458.11-559.95m, 465.05-468.8m, and 477.2-478.7m, whereas they are otherwise harder and likely not fully altered. Decrease in phyllic alteration from 461.4-465.2m, where Chl observed replacing shredded Bt, and only partially altered to Py. Overall pyrite is weakly mineralized throughout unit, up to 1% overall, occurring as stringers, disseminations and clots in veinlets. Carb veinlets occur throughout unit, typically as buff light grey-green veinlets (0.5cm, 40-50CA) +/- Py mineralization, but also observed as patchy pink carbonate (465.1-467.45m). Mineralization: Pyrite mineralization is most commonly occurring as stringers (somewhat disarticulated in some patches, though typically 60CA), as well as weak disseminations and clots in veinlets. Trace to minor Cpy observed intergrown with Py in Qz-Py veinlets, often occuring as a minor rim or rind around Py blebs or clots. Trace sulphosalts observed as blebs in Qz-Carb-Py veinlets (30CA @ 459.4m & disarticulated at 459.6m), and trace Asp occurring as clots in Qz-Carb-Py veinlet (465.1m, 40CA) Sulphides: 1% Py, 0.02% Cpy, 0.01% SS, 0.01% Sph, 0.01% Asp				carbonatew		Phyllic 1	w	1	0			Sph	0.01
N17-14	L. Wilson					458.11	559.95	Increased sericitization, with feldspars gone to clay											
N17-14	L. Wilson					459.4		Trace sulphosalts observed in a Qz-Carb-Py veinlet (30CA, 0.5cm)											
N17-14	L. Wilson					459.6		Trace sulphosalts observed in a disarticulated Qz-Carb-Py vein, no orientation of vein observed											
N17-14	L. Wilson					461.4	465.2	Decrease in phyllic alteration, with Chl-replaced Bt phenos, partially altered to Py.											
N17-14	L. Wilson					465.05	468.8	Increased sericitization, with feldspars gone to clay											
N17-14	L. Wilson					465.1	467.45	Pink carb observed in veinlets with grey Carb, green Ser and minor Py (+/- trace Cpy). Veinlets (20-30CA, 1-2/m) occur in zone of increased alteration of feldspars to clay and carb											
N17-14	L. Wilson					463.15		Trace Cpy observed rimming brown clot of marcasite (2cm x 0.5cm clot)											
N17-14	L. Wilson					466.3		Trace Cpy observed rimming Py along margin of pink carb veinlet (30CA)											
N17-14	L. Wilson					466.7		Minor Cpy blebs along a Py stringer											
N17-14	L. Wilson					468.5		Trace Cpy observed rimming Py in disarticulated stringer											

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N17-14	L. Wilson					469.3		Trace Cpy observed rimming/intergrown with brown Py clot (1 cm x 0.5 cm clot)											
N17-14	L. Wilson					477.2	478.7	Zone of increased clay and carb-alteration of feldspars.											
N17-14	L. Wilson					478.4		Patch of remnant Bt visible, with blue-green Ser-alteration of feldspars											
N17-14	L. Wilson					480.2		Trace blebs of Cpy intergrown with Py in low angle Qz-Carb-Py veinlet											
N17-14	L. Wilson					482.6	482.7	Patch of remnant Bt phenos visible, with minor alteration to Chl											
N17-14	L. Wilson					485.1		Trace clots of Asp and blebs of Cpy in Qz-Carb-Py veinlet (40CA, 0.4cm)						0			asp		0.01
N17-14	L. Wilson					487.73		Qz-Carb-Py veinlet (0.5cm, 55CA) with minor Cpy rimming Py clots, and trace Sph, occurring as a hexagonal crystal within a clot of brown marcasite											
N17-14	L. Wilson					489.15		Trace blebs of Cpy intergrown with Py in anastamosing and somewhat disarticulated Qz-Carb-Py veinlet											
N17-15	N. Mostaghimi	0	3.05	OVB	Overburden														
N17-15	N. Mostaghimi	3.05	24	QFP	Quartz-feldspar- porphyry dyke contains 10-20% 1-5 mm large phenocrysts comprising mostly of lathic feldspar phenocrysts and 5% qtz-eyes that are round and sometimes contain oxidized sulph rims. The phenocrysts are randomly oriented to localized zones of aligned but not deformed feldspar laths. The groundmass is vfg grained and the composition is difficult to discern especially with the alteration and weathering. Small leucocratic microgranite dyke intercepts occur in proximity to a zone of schist that contains frequent qtz-bands. (Oxidized) sulph- veinlets occur infrequently and are thin (<1 mm) and wispy. No fresh sulphide minerals remain. Hem, lim, and goe replacement of all sulphides is common. This interval is strongly fractured with oxidized clays and sometimes cb along fractures. Uncommon cb-infill of earlier qtz-veins.				Carbonatetr		Phyllic 1	w							
N17-15	N. Mostaghimi					12.19	12.85	Increase in oxidized sulph veinlet density to 3-6 per 10 cm											
N17-15	N. Mostaghimi			SCH		14.07	14.83	Schist with 70 deg. TCA tectonic foliation											
N17-15	N. Mostaghimi			QFP		14.83	15	QFP											
N17-15	N. Mostaghimi			MGR		15	15.61	Leucocratic microgranite											
N17-15	N. Mostaghimi					15.61	17.76	Schist with 70 deg. TCA tectonic foliation											
N17-15	N. Mostaghimi					21.86	21.9	Aligned feldspar phenocrystic laths											
N17-15	N. Mostaghimi	24	48.91	SCH	Schist to gneissic schist is grey to dark grey in colour and strongly oxidized. The schist contains a variance in qtz-band density. Qtz-bands are concordant to the tectonic foliation and may be boudinaged. The schist to gneissic schist is cross cut by small leucocratic microgranite dyke intrusions and a single leucogranite dykelet. The schist is variably pervasively silicified and contains a weak pervasive sericitization. Uncommon qtz-sulph (hem-lim) veinlets cross cut the schist 2-4 times per 10 cm. No fresh sulphides are observed.				Silica	w	Phyllic 1	w							
N17-15	N. Mostaghimi			MGR		26.74	27.03	Leucocratic microgranite											

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N17-15	N. Mostaghimi					29.3	29.35	Chalcanthite and brochanthite specs along a fracture surface											
N17-15	N. Mostaghimi					30.48	30.49	Chalcanthite and brochanthite specs along a fracture surface											
N17-15	N. Mostaghimi			GRA		31	31.1	Granite											
N17-15	N. Mostaghimi			MGR		33.6	34.18	Leucocratic microgranite											
N17-15	N. Mostaghimi			MGR		42.41	42.67	Leucocratic microgranite											
N17-15	N. Mostaghimi			MGR		43.43	44.05	Leucocratic microgranite; lower contact cross cuts tectonic foliation in schist											
N17-15	N. Mostaghimi					45.03	45.21	Brecciated fault; 60 deg. TCA at contacts											
N17-15	N. Mostaghimi			QFP		46.49	46.72	QFP dyke contains <3% phenocrysts; phenocrysts are <1 mm in size; groundmass appears almost aplitic											
N17-15	N. Mostaghimi	48.91	77.87	MGR	Porphyritic leucocratic microgranite with granophyric qtz groundmass has a bleeched appearance and contains oxidation (lim) along fractured surfaces. The bleeched characteristic of the rock makes the microgranite look like a QFP dyke. The rock is weakly fractured but does not have any significant faults that cross cut the rock. There is a strong oxidation zone at the bottom of this interval with lim, hem, and mn oxides along fracture surfaces. Lim alteration is variably pervasive in this zone. Silica and sericite alteration vary in intensity from weak to strong and are also expressed as thin (<1 mm) qtz-veinlets with ser halos that range from <1-2 mm wide on either side of the veinlet. These veinlets have orientations of 0-20 deg. TCA and 90-75 deg. TCA. Qtz-sulph veinlets are less common and occur as sheeted veinlets in groups sporadically oriented at 80 deg. TCA and 0-25 deg. TCA. No fresh sulphides are preserved.				Silica	w	Phyllic 1	w							
N17-15	N. Mostaghimi					49.56	49.57	Brochanthite specs along a fracture surface											
N17-15	N. Mostaghimi					60	60.25	Pervasive quartz-sericite alteration											
N17-15	N. Mostaghimi					63.57	63.58	Chalcanthite along a qtz-vein											
N17-15	N. Mostaghimi					72.49	77.87	Uncommon, localized, sheeted thin (<1 mm) white cb veinlets cross cut the rock at 20-30 deg. TCA											
N17-15	N. Mostaghimi	77.87	179.7	GRA	Intermittent pervasive sericitization and clay aleration of granite. The medium-grained size (2-3 mm) granite contains 30-40% qtz, <15% mafic minerals (hbl?), and 45-55% feldspar crystals. The qtz is clear and round and interstitial; the feldspar grains are sub-euhedral to euhedral and typically completely sericitized; and the mafics comprise of hbl and bt and are euhedral in shape. The granite contains intermittent and sporadic pervasive sericite and clay alteration that ranges in intensity from trace to moderate-strong; there is an intense clay-sericite alteration zone at the top of the interval. Chl-ep veinlets with ab selvags are not common (1 per 10 cm) and are likely associated with sodic-calcic alteration. Chl-ep veinlets typically cross cut the leucogranite at 30 deg. TCA. Chl alteration of primary mafics in the granite is common however there are zones of fresh hbl and bt that remain. <1 mm to 6 mm wide qtz-py-po+/-mar with tr cpy and ser-halos cut earlier potassic/sodic-calcic veinlets and cut the granite at 60 deg. TCA. These veins are associated with phyllic alteration. Zones with an increase in veins typically contain higher concentrations of pervasive ser associated with the halos of these veins. At ~150m in depth, qtz-bt(after chl) veinlets are common. Cb veinlets occur infrequently and sporadically as groups of 3-5 sheeted veinlets oriented at 30 deg. TCA. 1 mm to 3-4 mm wide qtz-asp+/-po+/-mar+/-py veins +/-cb infill cut the rock at 0-40 deg. TCA from 127 m at detph, and continue approx. once per metre down to the end of the interval. 2-5 mm wide dark bluish-grey chalcedony veins are not common but occur sometimes with brecciated fragments (<10% of vein).				Phyllic 1	w	Propylitic		2	0.1	0.3		asp	0.15
N17-15	N. Mostaghimi					77.87	117.35	Strong to intense pervasive sericite and clay alteration of feldspars; ~30% of the leucogranite is broken and gouge-like			Phyllic 1	i							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-15	N. Mostaghimi					103.63	103.7	Band of strongly clay altered and weathered chalcedony vein(?)											
N17-15	N. Mostaghimi					144.13	179.66	Start of bt after chl within chl-ep veinlets			Potassic	tr							
N17-15	N. Mostaghimi					150	152.7	Strong ser-clay alteration; with gouge material			Phyllic 1	s							
N17-15	N. Mostaghimi					153.18	153.2	Increase in qtz-bt veinlets			Potassic	w							
N17-15	N. Mostaghimi					161.75	169.3	Clay-sericite alteration is pervasive			Phyllic 1	s							
N17-15	N. Mostaghimi					167.7	167.74	Qtz-py-mar-asp-minor cpy vein with cb-oinfill; 40 deg. TCA											
N17-15	N. Mostaghimi					167.7	179.66	Qtz veins with tr to minor cpy occur 1 per metre											
N17-15	N. Mostaghimi					176.4	179.66	Clay-sericite alteration is pervasive			Phyllic 1	s							
N17-15	N. Mostaghimi	179.7	212.6	GRA	Strong pervasive sericitization of granite associated with a fault. ~80 cm fault at the top of the interval is associated with the sericitization and clay alteration of granite within proximity. There is also a large zone of very soft clayey granite that has been strongly weathered and altered. 3-5 mm and 1 cm wide qtz(chalcedony)+/-asp-py+/-cpy veins cross cut the rock at mostly 60 deg. TCA and less commonly at 30 deg. TCA and occur 1-2 per metre. Cb-veins are not common but do occur <1 per metre. White, 1 cm wide cb veins with sharp margins cross cut the granite at 40 deg. TCA. Uncommon pink-coloured dolomite veins are 3-4 mm wide. These veins cross cut the rock at 30 deg. TCA.						Phyllic 1	s	3	0.3	0.4	0	asp	0.4
N17-15	N. Mostaghimi					179.66	180.33	Cataclasite with dark-bluish black chalcedony matrix and vuggy white and grey qtz. Late cb-infill is not common but does occur. The upper contact that cuts the rock at 45 deg. TCA; lower contact is oriented at 30 deg. TCA. Py and asp are common within the qtz associated with the fault.											
N17-15	N. Mostaghimi					198.39	207.95	Interval of predominantly gouge and soft clayey leucogranite											
N17-15	N. Mostaghimi	212.6	260.6	GRA	Granite-granodiorite with intermittent and sporadic intervals of increased sericitization. Weak sodic-calcic/propylitic alteration is overprinted by weak pervasive and vein phyllic alteration that typically infill earlier chl-ep veinlets +/- ab (or kspar?) selvages. Weak chloritization of mafics is common throughout the interval. Vein density increases and is associated with the presence of bt alteration over a small interval. This zone also contains trace to weak pervasive green sericite alteration. Qtz-py-po-mar+/-asp+/-cpy veins occur <1-2 per metre and typically cross cut the granite-granodiorite at 60 deg. TCA throughout the interval. These veins are 1-3 mm wide and contain diffuse selvages up to 1.5 cm wide on either side of the vein. The feldspar selvages are sometimes sericitized. Cpy mineralization is rare and only associated with the qtz-veinlets, typically when mar is prominent.						Phyllic 1	w	Propylitic	w	1	0.1	0.2		asp	0.1
N17-15	N. Mostaghimi					224.03	230.18	Pink/reddish-coloured feldspars associated with the selvages of chl-ep veinlets occur once per 2 metres											
N17-15	N. Mostaghimi					228.65	228.68	Mo(?) possibly associated with a qtz (chalcedony) open-space vein with py-mar+/-asp and pink dolomite; 60 deg. TCA											
N17-15	N. Mostaghimi					230.18	239.24	Strong pervasive clay and sericite alteration			Phyllic 1	s							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
N17-15	N. Mostaghimi					249.16	250	Bt after chl stringers are weak and cross cut the rock at 30 deg. TCA			Potassic	w							
N17-15	N. Mostaghimi					250	250.01	Strong bt alteration is pervasive			Potassic	s							
N17-15	N. Mostaghimi					250	258.47	Fresh granite-granodiorite with hbl and bt grains uncommonly aligned. Biotite after mafic minerals is weak. Chl-ep veins are more common and qtz-sulphide veins are rare	Phyllic 1	tr	Propylitic	w							
N17-15	N. Mostaghimi					258.47	260.6	Green sericitization of primary feldspars in granite-granodiorite is weak to moderate. Qtz-sulph veinlet density increases to 2-4 per 10 cm			Phyllic 1	w							
N17-15	N. Mostaghimi					259.79	259.85	Red (hem?) coloured feldspars in proximity to qtz-sulphide veinlets											
KZ17-01	N. Mostaghimi	0	50.34	OVB	Overburden.														
KZ17-01	N. Mostaghimi					0	22	Matrix-supported silty-sand (>80%) with small (<2 cm) angular to sub-angular clasts of various lithologies. Several boulders with sizes up to 15 cm long are scattered throughout the overburden. Granodiorite and leucogranite clasts and boulders are observed along with other clasts of foreign origin. Very weak alignment of clasts and boulders with an orientation of 90 deg. TCA.											
KZ17-01	N. Mostaghimi					22	30.23	Sandy-silt matrix-supported unconsolidated material with <20% angular clasts of various lithologies with intermittent gradational transitional boundaries into ~10-20 cm zones of increased silt vs. sand.											
KZ17-01	N. Mostaghimi					30.23	45.32	Silt-supported matrix with up to 30% rounded clasts of <5 mm in size Leucocratic microgranite boulder at 44.88-45.00m.											
KZ17-01	N. Mostaghimi					45.32	50.34	Regolith is fractured and broken-up; and strongly oxidized.											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi	50.34	102	QFP	Crowded feldspar-porphyry (QFP) contains 10-15% euhedral feldspar and qtz phenocrsysts. Qtz phenocrysts range from 2 -5 mm and k-spar phenocrysts are more variable from 2 mm to 2 cm large. Qtz grains are crystal shaped, sometimes with hexagonal crystal habit and qtz-eye shapes. The k-spar grains are rectangular- to square-shaped. The groundmass contains <1-2 mm large qtz and feldspar crystals with random orientations. The groundmass is composed of 30-40% qtz and feldspar where 10-20% of the groundmass are qtz grains; the remainder is comprised of a vfg interstitial feldspar-qtz matrix. Relatively fresh hbl is euhedral and make up <1% of the groundmass and are <1 mm. The interval is variably oxidized down to 97 m. Lim and hem along fractures is very common at 30-40 deg. TCA and 60-70 deg. TCA; and after disseminated py. The veinlets are typically discontinuous and oxidized to contain hem and lim - hydrothermal alteration minerals are not identifiable. Sulphides are typically oxidized above 79.73m and predominantly fresh below this mark. Intermittent and small zones of trace to moderate sericitization of the QFP occur throughout the interval. Sericitization is pervasive and replaces all feldspar. <1 mm large, dark bluish-grey granular mo that sometimes have bladed shapes replace k-spars and is common throughout this interval but at low abundances (<1%). Sulphides comprise py - this py is possibly arsenine py due to its silver colour. This py/ars py occurs as euhedral to subhedral grains with granular and cubic texture typically associated with feldspar and qtz phenocrysts; either within or adjacent to k-spar phenocrysts or adjacent to qtz phenocrysts.					Phyllic 1	w	1						
KZ17-01	N. Mostaghimi					65	65.12	Fault with clayey white gouge cuts the rock at 60 deg. TCA											
KZ17-01	N. Mostaghimi					65.29	65.34	Fault with clayey white gouge cuts the rock at 50 deg. TCA											
KZ17-01	N. Mostaghimi					70.43	70.49	Fault with clayey white gouge cuts the rock at 80 deg. TCA											
KZ17-01	N. Mostaghimi					76.2	76.4	Stockwork oxidized sulph-veinlets/fractures											
KZ17-01	N. Mostaghimi					79.73	79.74	The start of fresh py/ arsenine py is observed											
KZ17-01	N. Mostaghimi					86.93	87.63	Breccia with >90% fragments of the QFP with clay matrix											
KZ17-01	N. Mostaghimi					88.63	88.64	Small specs of white mica											
KZ17-01	N. Mostaghimi					101.33	101.34	Mo associated with qtz and yellowish-brassy coloured py											
KZ17-01	N. Mostaghimi					101.34	101.35	Start of brassy py occurrences											
KZ17-01	N. Mostaghimi	102	128.7	QFP	Crowded feldspar-porphyry (QFP) contains 10% euhedral feldspar and qtz phenocrysts. The QFP is weak to moderately sericitized within this interval. K-spar within the QFP is typically sericitized - another light green coloured illite replaces feldspars in the groundmass with clear-translucent colour and vitreous lustre. <1 mm-sized euhedral pale, light-grey coloured white mica is common at low modal abundances (<1%). There is an increase in the frequency of discontinuous py-qtz veins that many fractures take advantage of at 60 deg. TCA and 20-30 deg. TCA. These veins occur once every 2 metres and are quite sparse. Arsenine py is rare and the occurrence of the brassy-yellowish coloured py is almost exclusive. Small zones of elevated concentrations of py blebs are typically associated to an elevation of py-qtz vein frequency. Py occurs as granular and cubic disseminated grains and associated to veins. Mar sometimes occurs with py. Dark bluish-grey mo contains a granular and at times bladed crystal habit and are scattered throughout the interval typically as replacement minerals of k-spar.					Phyllic 1	w	1.5						
KZ17-01	N. Mostaghimi					122.69	128.7	Increase in py mineralization associated with veins; moderate sericite replacement alteration of feldspars			Phyllic 1	m	2.5						
KZ17-01	N. Mostaghimi	128.7	242.7	QFP	Crowded feldspar-porphyry (QFP) contains a prominent pervasive sericitic alteration of feldspars with the exception of a zone that is silicified where the interstitial mineral within the groundmass is predominantly qtz +/-feldspar. There is a gradational boundary between the sericitic and silicic zones. Sporadic zones of groups of granite-granodiorite and schist xenoliths typically less than 5 cm in size occur several times within this interval. Disseminated cpy typically associated with py+/-po+/-mo mineralization that is typically <1mm in size and irregular in shape and seem to line-up. This suggests that the mineralization is associated with a discontinuous vein sub-parallel to the drill hole orientation. <1 mm in size, mostly granular and sometimes bladed disseminated mo replacement mineralization of k-spar occurs on its own as well. Strong mo mineralization occurs once associated to a zone of silica alteration defined by dark-grey semi-translucent qtz-veins with sharp margins that cross cut the QFP at 50 deg. TCA - as well as pervasive silica alteration. Discontinous py-qtz veins occur 1-2 per metre. Fractures commonly take advantage of these veins at 60 deg. TCA and 20-30 deg. TCA.				Carbonatew	Phyllic 1	s	3	0.2	0.1	0			
KZ17-01	N. Mostaghimi					128.7	128.71	Green ser alteration along a fracture surface											
KZ17-01	N. Mostaghimi					128.7	128.85							0.3	0.3				

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi					135.64	138	Increase in py mineralization associated with veins;											
KZ17-01	N. Mostaghimi					136.2	142.09	Decrease in cpy											
KZ17-01	N. Mostaghimi					136.2	136.25	4 sheeted py-pinkish coloured mineral that does not effervesce with HCl; 20 deg. TCA											
KZ17-01	N. Mostaghimi					138.84	138	5 sheeted py-feldspar?-qtz veins at 30 deg. TCA											
KZ17-01	N. Mostaghimi					139.38	139.39	Granite-granodiorite xenolith is 5 cm in size and strongly sericitized and chloritized											
KZ17-01	N. Mostaghimi					139.38	139.8	Vuggy grey qtz (chalcedony)-pink dol-py vein at 30 deg. TCA											
KZ17-01	N. Mostaghimi					142.09	142.1	Cpy blebs											
KZ17-01	N. Mostaghimi					143.27	143.28	Microgranite xenolith is angular and 5 cm in size											
KZ17-01	N. Mostaghimi					143.45	143.46	Granite-granodiorite xenolith is 5 cm in size and strongly sericitized and chloritized											
KZ17-01	N. Mostaghimi					143.65	143.75	Stringers of py and the dark bluish-grey mineral are wispy and <<1 mm wide; cross cut the QFP at 10 deg. TCA											
KZ17-01	N. Mostaghimi					144.78	149.16	Decrease in py and veins											
KZ17-01	N. Mostaghimi					148.64	148.65	Stringers of py and the dark bluish-grey mineral are wispy and <<1 mm wide; cross cut the QFP at 10 deg. TCA											
KZ17-01	N. Mostaghimi					149.16	149.35	Increase in py and mar					3.5						
KZ17-01	N. Mostaghimi					148.73	148.75	Cpy blebs associated with py-mar											
KZ17-01	N. Mostaghimi					148.56	151	Decrease in cpy											
KZ17-01	N. Mostaghimi					150	150.01	Granite-granodiorite xenolith is 10 cm in size and strongly sericitized and chloritized											
KZ17-01	N. Mostaghimi					151	152.55	Gradational transition to a silicified QFP with crowded feldspars											
KZ17-01	N. Mostaghimi					154.8	155.83	Elevated py-mar and sericitization					3						

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi					159.95	161	Zone of silica alteration defined by dark-grey semi-translucent qtz-veins with sharp margins that cross cut the QFP at 50 deg. TCA - as well as pervasive silica alteration			Silica	m							
KZ17-01	N. Mostaghimi					160.7	160.71	Mo mineralization associated with silica alteration											
KZ17-01	N. Mostaghimi					162.86	162.87	Clayey gouge along fracture											
KZ17-01	N. Mostaghimi					165.55	165.56	Fracture infill with soft dark grey material with py; 80 deg. TCA											
KZ17-01	N. Mostaghimi					166.46	166.47	Light grey vuggy qtz-pink dol vein is 1 mm wide and contains sharp vein margins; 20 deg. TCA											
KZ17-01	N. Mostaghimi					167.23	168.5	Zone with a high (10% of rock) concentration of schist and granite-granodiorite xenoiths typically no larger than 3 cm											
KZ17-01	N. Mostaghimi					167.82	167.83	Qtz-vein with a ser halo that is 5 mm on either side of the wispy vein. Halo may contain silica alteration as well; 45 deg. TCA											
KZ17-01	N. Mostaghimi					171.06	172.33	Pervasive silica alteration			Silica	s							
KZ17-01	N. Mostaghimi					174.06	174.07	Zoned kspar or sericite alteration is zoned											
KZ17-01	N. Mostaghimi					176.21	183	Increase in py-veins; 1 per metre											
KZ17-01	N. Mostaghimi					178.81	178.82	Clayey gouge along fracture; 15 deg. TCA											
KZ17-01	N. Mostaghimi					178.81	178.82	Vuggy qtz-dol vein at 45 deg. TCA											
KZ17-01	N. Mostaghimi					181.85	181.86	Qtz-veinlets are <1mm wide with wispy orientations and contain ser halos 3 mm wide on either side of the veinlet											
KZ17-01	N. Mostaghimi					185	185.01	Sheeted salmon-coloured dol veinlets (3 over 10 cm) are oriented at 40-50 deg. TCA											
KZ17-01	N. Mostaghimi					185.93	186.17	Strong clay alteration											
KZ17-01	N. Mostaghimi					186.91	187.18	Sheeted, wispy grey qtz-(chalcedony) veins are oriented at 70-80 deg. TCA; 4 per 10 cm											
KZ17-01	N. Mostaghimi					160	199.64	Trace to none cpy											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi					198.71	198.75	Clay-filled fracture; 60 deg. TCA											
KZ17-01	N. Mostaghimi					199.64	200.37	Start of elevated cpy mineralization						0.5					
KZ17-01	N. Mostaghimi					203	203.81	Grey vuggy qtz-pink dol veins within a strongly sericitized and silicified zone											
KZ17-01	N. Mostaghimi					205.54	205.57	Dark clayey gouge fill a 3 cm wide fracture											
KZ17-01	N. Mostaghimi					206.74	206.75	Two discontinuous py-hem-mar-cpy veins are parallel and cross cut the rock at 30 deg. TCA separated by 15 cm											
KZ17-01	N. Mostaghimi					210.42	217.55	Silicification of the QFP			Silica	s							
KZ17-01	N. Mostaghimi					215	215.01	Large 1 cm large cpy bleb is irregular and angular suggesting replacement mineralization											
KZ17-01	N. Mostaghimi					218.5	218.51	Discontinuous py-hem-cpy veins defined by blebs of replacement mineralization separated by 1 cm aligned parallel to the drill core; this vein is apparently cut by other py-hem-mar-cpy mineralization 4 cm											
KZ17-01	N. Mostaghimi					220	231.5	Trace to none cpy											
KZ17-01	N. Mostaghimi					236.27	237.26	Strong silicification of QFP			Silica	s							
KZ17-01	N. Mostaghimi					237.26	237.69	Intense clay alteration is pervasive; green ser is common			Phyllic 1	i							
KZ17-01	N. Mostaghimi					237.69	237.97	Red-stained silicified QFP			Silica	s							
KZ17-01	N. Mostaghimi					237.97	239.582	Intensely pale grey clay altered QFP; difficult to discern primary minerals in QFP			Phyllic 1	i							
KZ17-01	N. Mostaghimi					239.5	239.58	Strong semi-massive to massive py associated with a fracture											
KZ17-01	N. Mostaghimi					239.58	239.59	Clay-infill of fracture oriented at 30 deg. TCA											
KZ17-01	N. Mostaghimi					242	242.69	Schist and granite-granodiorite xenoliths no larger than 3 cm											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi	242.7	278.5	GRD	Granodiorite contains a high density of conjugate stockwork qtz-veins and other veinlets and contains zones of weak-moderate pervasive green to white/beige-yellow sericite alteration. The granodiorite comprises clear qtz (30%), feldspar is completely sericitized but retains a rectangular shape (40-50%), replacement of primary bt and hbl (30-40%). Fresh hbl is rarely observed. Mafic enclaves rarely occur. There are a number of different qtz-vein assemblages: 1) Rare chl-ep veins are 1-2 mm wide and contain white-coloured sericitized feldspar (ab?). This chl-ep vein is typically split or cross cut by 2) thin bt-qtz veinlets. Thin, <1 mm wide bt(after chl?)- stringers typically occur in swarms.; 3) Faint, smoky grey qtz-py+/-po+/-cpy+/-mo+/-chl (qtz-sulph) veins are common and occur as 1-10mm-wide veins with sharp vein margins that typically contain <20% sulphides. The mo occurs aligned along vein margins, as does vibrant, forest green-coloured chl that is suspected to be associated with mafic enclaves associated with the granodiorite. These sulphide-bearing qtz-veins and veinlets occur as stockwork (2 at 30-40 and 60-70 deg. TCA) and are cross cut by 4) 1-15 mm wide py-qtz veins that comprise >50%, and commonly >80% brassy py with qtz. Py-qtz veins contain sharp vein margins and sometimes with white colour highlight/selvages associated with the feldspars in the granodiorite. This vein-type also occurs in stockwork formation but with less density than the earlier qtz-sulph veinlets and cross cut the rock at 90-80 and 30-40 deg. TCA. Late, post-mineralization related 5) dark grey qtz(chalcedony)-veins cross cut all hydrothermally associated mineralization-hosting veins at 20-30 deg. TCA. All vein types are cross cut and split by 6) pink to salmon-coloured brittle dol veinlets and veins that zigzag with sharp margins that have orientations of 15-25 deg. TCA. Dol-veins and dark grey qtz(chalcedony) veins are typically vuggy and associated with open-space fill. Small intervals of strong bt alteration is at times pervasive. Red-stained illite occurs sporadically associated with qtz-sulph veins. Intermittent zones of srong-intense clay alteration are common. 10-15% of bt/chl after mafic minerals contain disseminated sulphides - predominantly py.				Phyllic	1	m	Potassic	m	5	0.3	0.2	0			
KZ17-01	N. Mostaghimi					259.6	259.74	Qtz-vein with large blebs of py-mar, vuggy qtz and cb-infill											
KZ17-01	N. Mostaghimi					262.54	262.55	Decrease in strong stockwork veins											
KZ17-01	N. Mostaghimi					264	265.66	Increase in strong stockwork veins											
KZ17-01	N. Mostaghimi					270.62	270.71	Strong pervasive bt alteration											
KZ17-01	N. Mostaghimi					275.45	275.56	Granophyric to pegmatitic texture has a gradational contact with the granodiorite											
KZ17-01	N. Mostaghimi					276.1	276.12	Qtz-sulph vein with mo mineralization aligned along the vein margins; 30 deg. TCA											
KZ17-01	N. Mostaghimi	278.5	288.8	GRD	Granodiorite is strongly to intensely clay altered and sericitized in proximity to a leucocratic microgranite intercept; there is a strong vein stockwork within this zone. This increase in green, white, and pale-yellow coloured clay-illite-sericite alteration may be associated with an increase in frequency of dark grey-black qtz (chalcedony) veins that cross cut at 45-60 deg. TCA. These post-mineralization veins are associated with zones of increased patchy silicification that may be magmatic as similar textures are associated with the granophyric texture. This silica is cross cut by qtz-sulph-chl(?) veinlets. Stockwork and swarms of chl/bt stringers contain a density of 5-8 per 10 cm. Cpy mineralization increases in association with strong pervasive silicification and intense stockwork qtz-chl/bt veinlets.				Phyllic	1	s	Propylitic	m	5	0.5	0.3				
KZ17-01	N. Mostaghimi					298.91	298.92	Dark grey-black qtz (chalcedony) veins; 60 deg. TCA											
KZ17-01	N. Mostaghimi					279.1	239.44	Possibly magmatic, patchy qtz in proximity to qtz-veins											
KZ17-01	N. Mostaghimi					239.7	279.7	Dark grey-black qtz (chalcedony) veins; 45 deg. TCA											
KZ17-01	N. Mostaghimi					281.65	288.64	Dendritic texture of biotite/chlorite alteration of mafic minerals and chl/bt stringers are associated with intense-strong clay-sericite alteration zones											
KZ17-01	N. Mostaghimi			MGR		283.23	285.25	Leucocratic microgranite contains the microgranophyric texture in the vfg groundmass											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi					287	288							0.6					
KZ17-01	N. Mostaghimi	288.8	417.6	GRD	Granodiorite contains a moderate pervasive apple green to white sericite alteration of feldspars that overprints propylitic alteration with intermittent zones of pervasive chl-ep alteration. With the exception of the first ~25m, there is a moderate-strong potassic alteration that is represented by qt-sulph veins with k-spar selvages and bt alteration of chl associated with qtz-veins and as pervasive bt alteration. There is a gradual decrease in chl-ep veins that is correlated to the increase in potassic alteration. 20-30% of chl is altered to bt. Potassic alteration increases in intensity from 305-417m. Sporadic splotches of red-coloured-stained ser uncommonly occur. Stockwork qtz-py+/-mar+/-po+/-cpy+/-mo+/-forest green chl-veins (also referred to as qtz-sulph-veins) are common (1-2 per 20 cm) and cross cut chl-ep veins that cross cut swarms of bt/chl stringers and qtz-bt/chl veinlets. Uncommon py-qtz veins also occur. Occasionally the qtz-sulph veins split the chl-ep veins - some of these veins contain a white and pinkish-red coloured selvage associated with the feldspars in proximity to the veins. Sheeted chl/bt veinlets at 45 deg. TCA are common within a zone of moderate biotization of chl and strong to intense stockwork of chl-ep, bt/chl, and qtz-sulph veins. Sericite alteration halos associated with qtz-veinlets are not evident until the veinlets cross cut dark coloured alteration zones and mafic enclaves and associated with phyllic alteration overprint. Disseminated po, mo and cpy-commonly associated with po is dispersed but minor throughout the interval (up to 15% of mafic minerals). Large mafic enclaves are rare, however, small (<1 cm large) mafic enclaves are commonly chloritized to a forest green colour and entrained within qtz-veins and veinlets (predominantly the qtz+/-cpy+/-po+/-mo veins).				Potassic	m	Propylitic	s	4	0.7	0.3	0			
KZ17-01	N. Mostaghimi					304.59	309.58	Increase in biotization of chl; increase in bt/ bt after chl sheeted and stockwork stringers; increase in qtz-sulph veins with kspar selvages											
KZ17-01	N. Mostaghimi					309.28	309.58							0.9					
KZ17-01	N. Mostaghimi					309.58	318.78							0.2					
KZ17-01	N. Mostaghimi					324.28	337.3	Strong stockwork of qtz-sulphide veins and veinlets			Potassic	s							
KZ17-01	N. Mostaghimi					334.06	334.31	Cataclasite wth fragments of brecciated granodiorite in dark bluish-grey to black qtz-chalcedony matrix; 50-60 deg. TCA											
KZ17-01	N. Mostaghimi					337.3	344.11	Intense qtz-vein and veinlet stockwork			Potassic	i							
KZ17-01	N. Mostaghimi					344.86	345.17	Breccia with open-space vein fill comprising of clear qtz, dark bluish-grey to black qtz (chalcedony), and white cb; small (<3 mm), cpy, po, and py rounded fragments											
KZ17-01	N. Mostaghimi					350.2	350.25	Granophyric texture in granodiorite											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi			QFP		355.34	367.65	Strong to intense silicification and sericitification of a porphyritic unit that contains 20-30% rectangular feldspar and 1-2% euhedral hbl and bt phenocrysts within a qtz matrix (>40%). The feldspar phenocrysts are sometimes up to 1.5 cm in size. The silicified rock contains a dark grey colour and makes it difficult to discern any qtz phenocrysts, and a light grey colour associated with the sericitized zones. There is an apparent foliation within the rock defined by ann alignment but not strain of mineral grains. Qtz-eye phenocrysts are more apparent in these zones of high sericitization and comprise <5% of the lithology. Stockwork qtz-mo-cpy veinlets are common within this unit. Disseminated cpy, po, and mo are vfg and prominent throughout this unit. The disseminated sulphides replace mafic minerals.						1	0.8	0			
KZ17-01	N. Mostaghimi					367.65	417.62	Decrease in cpy mineralization associated with a decrease in qtz-sulph veins.						0.2					
KZ17-01	N. Mostaghimi					396.25	387.98	Strong-intense pervasive bt alteration			Potassic	s							
KZ17-01	N. Mostaghimi	417.6	427.1	GRD	Granodiorite is weakly altered by potassic alteration that is defined by sporadic qtz-sulph veins with feldspar and bt vein selvages. Qtz+/-po+/-mo+/-cpy veins +/- feldspar and/or bt selvages occur <1 per metre. The feldspars in the granodiorite are sericitized and still retain their crystal shape where individual grains are distinguishable. The mafic minerals contain none to trace chloritization and still contain their euhedral crystal shapes. Chl-stringers are uncommon and associated with weak to trace propylitic alteration.			Phyllic 1	w	Potassic	tr	0.4	0.1	0.1	0			
KZ17-01	N. Mostaghimi	427.1	440.2	GRD	Strong pervasive sericite and clay alteration and potassic vein alteration of granodiorite. The feldspars in the granodiorite are sericitized and individual grains are not discernable as the sericite is interconnected to create a web-like texture. As a result the chloritized mafics in the granodiorite have a speckled appearance. The potassic alteration is strong and defined by a high density (5-8 per 10 cm) of stockwork qtz-veins and bt-stringers. The majority of the qtz-veins are barren, and qtz+/-po+/-py+/-mo+/-cpy veins are rare. There is a strong-intense density of wispy bt(after chl?)-stringers that cross cut the granodiorite predominantly at 80 deg. TCA. Cb infill of veins and along fractures is very common and also associated with the soft clayey and crumbly zones. The intensity of pervasive bt and silica alteration increases from 435.70m towards the bottom of this interval. This difference in alteration intensity is associated with qtz+/-py+/-po+/-mo+/-cpy veins and veinlets. Chalcedony veins are typically associated with cb and dol veins.			Phyllic 1	s	Potassic	s	1	0.2	0.5	0			
KZ17-01	N. Mostaghimi					435.7	440.2	Increase in stockwork qtz+/-po+/-mo+/-+/-py+/-cpy veins and veinlets occur at 0, 30, and 45 deg. TCA; strong-intense pervasive bt and silica alteration; rare cb veins and veinlets			Potassic	i		0.5					
KZ17-01	N. Mostaghimi					438	440.2	Increase in cb veinlets											

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi					440.13	440.2	Fault contains qtz-infill and cb-infill; orienation of fault is 30 deg. TCA											
KZ17-01	N. Mostaghimi	440.2	448.8	SCH	Schist - or possibly a large, altered mafic enclave - is strongly to intensely altered to sericite, biotite, and silica and contains a glossy appearance. Sericite alteration is pervasive and associated with qtz-veinlets with ser halos. The qtz+/-po+/-mo+/-cpy veins are common. Tectonic foliation is at times difficult to discern due to the destructive alteration of the fabric. The tectonic foliation has an orientation of 45 deg. TCA. Thin, <1 mm wide, white cb veinlets are common (6-9 per 10 cm) and occur in swarms oriented at 30 deg. TCA.					Phyllic 1	s	Potassic	i	0.6	0.8	0.9	0		
KZ17-01	N. Mostaghimi	448.8	538.3	GRD	Granodiorite contains intermittent zones of variably sericitically and potassically altered zones. Mafic enclaves >3 cm in size are uncommon but increase in frequency below 503m. Cb vein intensity also varies greatly and sporadically. Cb vein frequency typically increases in zones of phyllic alteration. The phyllic alteration is defined predominantly by pervasive white ser after primary feldspars that produces a speckled appearance down to 496m. Brown coloured illite that may also be associated with phyllic alteration replaces a translucent primary feldspar. Potassic alteration is variable in intensity and defined by qtz-sulph veins that sometimes have feldspar selvages and/or bt selvages. Secondary dark brown to brown coloured bt is sporadic and mostly pervasive and also has a blurry texture. The cpy mineralization is predominantly associated with qtz-sulph veins. <1 mm wide qtz-veinlets with ser halos are frequent and typically split chl-ep veins. These qtz-veinlets with ser halos cross cut the rock from 60-80 deg. TCA and are associated with phyllic alteration. Pink dol veins are uncommon but associated with vuggy qtz-chacedony veins that occur 1 per metre down to ~476m. Grey cb-dol occur throughout the interval once per 2-4 metres. Random, sporadic small zones of soft clayey granodiorite typically contain cb as well. There are minor amounts of disseminated sulphide replacement of mafic minerals.					Carbonatem		Phyllic 1	m	2	0.5	0.4	0		
KZ17-01	N. Mostaghimi					448.8	449.5	Brecciation of granodiorite with >99% granodiorite fragments strong fractionation by veinlets and chl-bt stringers											
KZ17-01	N. Mostaghimi					448.8	452.6	Cpy in infrequently observed						0.1					
KZ17-01	N. Mostaghimi					450.26	450.68	Fault or fracture with clayey gouge material; 70 deg. TCA											
KZ17-01	N. Mostaghimi					457.3	459.63	<10% brown coloured illite has a blotchy appearance and replaces translucent feldspars in the granodiorite											
KZ17-01	N. Mostaghimi					460.82	476	Zone of strong to intense mostly barren stockwork qtz-veins and strong perasive sericitic and clay alteration	Phyllic 1	s	Potassic	s							
KZ17-01	N. Mostaghimi			QFP		470.55	471.78	QFP with flow textures defined by speckled oxidized sulphides after mafic minerals; the groundmass is strongly sericitized and silicified. <1 mm large qtz-eyes (5-10%) and feldspar phenocrysts (10-15%); upper and lower contacts are sharp and have orientations of 30 deg. TCA											
KZ17-01	N. Mostaghimi					474.21	474.22	1.5 cm wide open-space clear vuggy qtz and white vuggy cb-dol vein infill											
KZ17-01	N. Mostaghimi					476	491.73	Chl-ep veins are common (1 per 20 cm) and stockwork qtz+/-mo+/-cpy+/-po+/-py veins occur 1-3 per 20 cm; increase in py mineralization	Potassic	s	Propylitic	m	1	0.5	0.6	0		
KZ17-01	N. Mostaghimi					476	491.73	Weak ser replacement of feldspars			Phyllic 1	w							

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi			QFP		492.62	492.72	Possibly another QFP dyke however the phyllic alteration overprint is intense and is texturally destructive											
KZ17-01	N. Mostaghimi					492.73	493	Strong clay alteration and soft clay alteration with cb	Carbonatem		Phyllic 1	s							
KZ17-01	N. Mostaghimi					493	500.12	Decrease in mineralization and qtz-veins											
KZ17-01	N. Mostaghimi					494.4	495.2	Strong clay-ser alt and cb alteration	Carbonates		Phyllic 1	s							
KZ17-01	N. Mostaghimi					502.29	519.68	Increase in mineralization associated with qtz+/-mo+/-po+/-py+/-cpy veins; chl-ep +/- ab halo veins and qtz with ser halo veinlets						0.5					
KZ17-01	N. Mostaghimi					503	538.27	1-3 mafic enclaves >3 cm in size per metre											
KZ17-01	N. Mostaghimi					505.25	508.69	Possible disseminated mt associated with secondary bt associated with qtz-sulph veins			Potassic	m							
KZ17-01	N. Mostaghimi			SCH		518.04	519.09	Schist or large, strongly altered mafic enclave; very fine-grained and laminated unit contains intermittent strong sericitization and biotite alteration;												
KZ17-01	N. Mostaghimi			MGR		518.14	518.29	Leucocratic microgranite											
KZ17-01	N. Mostaghimi			MGR		519.09	519.2	MGR or QFP; fine-grained unit with vfg disseminated sulphides within a felsic unit (>80%)											
KZ17-01	N. Mostaghimi					519.09	521	Moderate ep alteration is disseminated and associated with ep-veinlets			Propylitic	m							
KZ17-01	N. Mostaghimi					529.24	528.95	Strong-intense qtz-py-mo po-cpy vein stockwork			Potassic	i					0		
KZ17-01	N. Mostaghimi					535.4	538.27	Strong to intense pervasive clay alteration with strong cb alteration associated with a small fault	Carbonates		Phyllic 1	i							
KZ17-01	N. Mostaghimi					535.8	535.85	Fault with healed-clayey gouge infill; 20 deg. TCA											
KZ17-01	N. Mostaghimi	538.3	603.5	GRD	Granodiorite contains a weak-moderate propylitic alteration overprinted by weak potassic alteration. These zones of alteration are typically associated with weak-strong phyllic overprint alteration. Mafic enclaves >3cm in size occur >1-2 per metre. The propylitic alteration is defined by chl-ep veinlets and weakly to trace chlorite alteration of the primary minerals. The potassic alteration is defined by qtz+/-mo+/-py+/-po+/-cpy veins that are 1-4 mm thick and sometimes contain small, entrained (<2-3 mm sized) mafic enclaves that commonly contain forest green chl, white cb, and sulphide mineralization. These qtz-sulph veins cut the rock at three different orientations and host the majority of the sulphide mineralization. The phyllic alteration is defined by weak to strong ser replacement of feldspars in the granodiorite and <1 mm thin qtz-veinlets with ser <3 mm wide ser halos on either side of the veinlets. These veinlets commonly split chl-ep veins. Chalcedony veins are not common and occur with cb/dol veins and veinlets. White cb veinlets have orientations of 30 deg. TCA; Light pink and cream coloured dol also cross cut the granodiorite at 30 deg. TCA and occur <1 per metre. Disseminated sulphides are very low in concentration - <3% of mafic minerals are replaced by sulphide mineralization.				Potassic	w	Propylitic	w	0.9	0.4	0.2		0		

Hole ID	LoggedBy	Lith Fr	Lith To	Lith Major	Description	Sub-Int Fr	Sub-Int To	Subinterval Notes	Late Alt.	Late Alt. Itens.	Early Alt.	2nd Alt. Intens.	Py %	Cpy %	Prt %	Mo %	Sch %	Other	Other %
KZ17-01	N. Mostaghimi					543.62	543.72	Clayey gouge infill of a fracture; 25 deg. TCA											
KZ17-01	N. Mostaghimi					543.87	545	High density of >2 cm large mafic enclaves; >20 per 10 cm (>70% of the rock contains mafic enclaves of various sizes)											
KZ17-01	N. Mostaghimi					546.82	548.07	Zone of magmatic qtz/qtz rich phase of the granodiorite with contacts that contain granophyric textures; cross cut by hydrothermal alteration veins; 65-75 deg.TCA											
KZ17-01	N. Mostaghimi					538.27	548.07	Trace propylitic and potassic alteration associated with increase in ser replacement of the feldspars	Potassic	tr	Propylitic	tr							
KZ17-01	N. Mostaghimi					560.63	569.64	Moderate to strong pervasive ser and clay alteration			Phyllic	1 s							
KZ17-01	N. Mostaghimi					582.69	585.86	Cb-dol veins increase in density including stockwork zig-zagging white cb veinlets; strong pervasive ser-clay alteration	Carbonatem		Phyllic	1 s							

APPENDIX C - REVENUE AND NUCLEUS DRILLCORE SAMPLE LOCATIONS

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-01	24.38	26	1.62	E444389	WH17164323
N17-01	26	28	2	E444391	WH17164323_revised
N17-01	28	30	2	E444392	WH17164323_revised
N17-01	30	32	2	E444393	WH17164323_revised
N17-01	32	34	2	E444394	WH17164323_revised
N17-01	34	36	2	E444395	WH17164323_revised
N17-01	36	38	2	E444396	WH17164323_revised
N17-01	38	39	1	E444397	WH17164323_revised
N17-01	39	41	2	E444398	WH17164323_revised
N17-01	41	43	2	E444399	WH17164323_revised
N17-01	43	45	2	E444401	WH17164323_revised
N17-01	45	47	2	E444402	WH17164323_revised
N17-01	47	49	2	E444403	WH17164323_revised
N17-01	49	51	2	E444404	WH17164323_revised
N17-01	51	53	2	E444405	WH17164323_revised
N17-01	53	55	2	E444406	WH17164323_revised
N17-01	55	57	2	E444407	WH17164323_revised
N17-01	57	59	2	E444408	WH17164323_revised
N17-01	59	61	2	E444409	WH17164323_revised
N17-01	61	63	2	E444411	WH17164323
N17-01	63	65	2	E444412	WH17164323
N17-01	65	67	2	E444413	WH17164323
N17-01	67	69	2	E444414	WH17164323
N17-01	69	71	2	E444415	WH17164323
N17-01	71	73	2	E444416	WH17164323
N17-01	73	75	2	E444417	WH17164323
N17-01	75	77	2	E444418	WH17164323
N17-01	77	79	2	E444419	WH17164323
N17-01	79	81	2	E444421	WH17164323
N17-01	81	83	2	E444422	WH17164323
N17-01	83	84	1	E444423	WH17164323
N17-01	84	85	1	E444424	WH17164323
N17-01	85	86	1	E444425	WH17164323
N17-01	86	87	1	E444426	WH17164323
N17-01	87	87.9	0.9	E444427	WH17164323
N17-01	87.9	89	1.1	E444428	WH17164323
N17-01	89	91	2	E444429	WH17164323
N17-01	91	93	2	E444431	WH17164323
N17-01	93	95	2	E444432	WH17168272
N17-01	95	97	2	E444433	WH17168272
N17-01	97	99.06	2.06	E444434	WH17168272
N17-01	99.06	101	1.94	E444435	WH17168272
N17-01	101	103	2	E444436	WH17168272
N17-01	103	105	2	E444437	WH17168272
N17-01	105	107	2	E444438	WH17168272
N17-01	107	109	2	E444439	WH17168272
N17-01	109	111	2	E444441	WH17168272
N17-01	111	113	2	E444442	WH17168272
N17-01	113	115	2	E444443	WH17168272
N17-01	115	117	2	E444444	WH17168272
N17-01	117	119	2	E444445	WH17168272
N17-01	119	121	2	E444446	WH17168272
N17-01	121	122	1	E444447	WH17168272
N17-01	122	124	2	E444448	WH17168272
N17-01	124	126	2	E444449	WH17168272
N17-01	126	127.25	1.25	E444451	WH17168272
N17-01	127.25	128.5	1.25	E444452	WH17168272
N17-01	128.5	130	1.5	E444453	WH17168272
N17-01	130	132	2	E444454	WH17168272
N17-01	132	134	2	E444455	WH17168272
N17-01	134	136	2	E444456	WH17168272
N17-01	136	137.09	1.09	E444457	WH17168272
N17-01	137.09	139	1.91	E444458	WH17168272
N17-01	139	141	2	E444459	WH17168272
N17-01	141	142	1	E444461	WH17168272
N17-01	142	143.14	1.14	E444462	WH17168272

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-01	143.14	145	1.86	E444463	WH17168272
N17-01	145	147	2	E444464	WH17168272
N17-01	147	149	2	E444465	WH17168272
N17-01	149	151	2	E444466	WH17168272
N17-01	151	153	2	E444467	WH17168272
N17-01	153	155	2	E444468	WH17168272
N17-01	155	157	2	E444469	WH17168272
N17-01	157	159	2	E444471	WH17168272
N17-01	159	161	2	E444472	WH17168272
N17-01	161	163	2	E444473	WH17168272
N17-01	163	165	2	E444474	WH17168272
N17-01	165	167	2	E444475	WH17168272
N17-01	167	168	1	E444476	WH17168272
N17-01	168	169	1	E444477	WH17168272
N17-01	169	170	1	E444478	WH17168272
N17-01	170	171	1	E444479	WH17168272
N17-01	171	172	1	E444481	WH17168272
N17-01	172	173	1	E444482	WH17168272
N17-01	173	174	1	E444483	WH17168272
N17-01	174	175	1	E444484	WH17168272
N17-01	175	176	1	E444485	WH17168272
N17-01	176	177	1	E444486	WH17168272
N17-01	177	178	1	E444487	WH17168272
N17-01	178	179	1	E444488	WH17168272
N17-01	179	180	1	E444489	WH17168272
N17-01	180	181	1	E444491	WH17168272_revised
N17-01	181	182	1	E444492	WH17168272_revised
N17-01	182	183	1	E444493	WH17168272_revised
N17-01	183	184	1	E444494	WH17168272_revised
N17-01	184	186	2	E444495	WH17168272_revised
N17-01	186	188	2	E444496	WH17168272_revised
N17-01	188	190	2	E444497	WH17168272_revised
N17-01	190	192	2	E444498	WH17168272_revised
N17-01	192	194	2	E444499	WH17168272_revised
N17-01	194	196	2	E444501	WH17168272_revised
N17-01	196	198	2	E444502	WH17168272_revised
N17-01	198	200	2	E444503	WH17168272_revised
N17-01	200	202	2	E444504	WH17168272_revised
N17-01	202	204	2	E444505	WH17168272_revised
N17-01	204	206	2	E444506	WH17168272_revised
N17-01	206	208	2	E444507	WH17168272_revised
N17-01	208	210	2	E444508	WH17168272_revised
N17-01	210	212	2	E444509	WH17168272_revised
N17-01	212	214	2	E444511	WH17168272
N17-01	214	216	2	E444512	WH17168272
N17-01	216	218	2	E444513	WH17168272
N17-01	218	219.46	1.46	E444514	WH17168272
N17-01	219.46	222	2.54	E444515	WH17168272
N17-01	222	224	2	E444516	WH17168272
N17-01	224	226	2	E444517	WH17168272
N17-01	226	228	2	E444518	WH17168272
N17-01	228	230	2	E444519	WH17168272
N17-01	230	232	2	E444521	WH17168272
N17-01	232	234	2	E444522	WH17168272
N17-01	234	236	2	E444523	WH17168272
N17-01	236	238	2	E444524	WH17168272
N17-01	238	240	2	E444525	WH17168272
N17-01	240	242	2	E444526	WH17168272
N17-01	242	244	2	E444527	WH17168272
N17-01	244	246	2	E444528	WH17168272
N17-01	246	248	2	E444529	WH17168272
N17-01	248	250	2	E444531	WH17168272
N17-01	250	252	2	E444532	WH17168272
N17-01	252	254	2	E444533	WH17168272
N17-01	254	256	2	E444534	WH17168272
N17-01	256	258	2	E444535	WH17168272

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-01	258	260	2	E444536	WH17168272
N17-01	260	262	2	E444537	WH17168272
N17-01	262	264	2	E444538	WH17168272
N17-01	264	266	2	E444539	WH17168272
N17-01	266	268	2	E444541	WH17168272
N17-01	268	270	2	E444542	WH17168272
N17-01	270	272	2	E444543	WH17168272
N17-01	272	274	2	E444544	WH17168272
N17-01	274	276	2	E444545	WH17168272
N17-01	276	277.65	1.65	E444546	WH17168272
N17-01	277.65	280	2.35	E444547	WH17168272
N17-01	280	282	2	E444548	WH17168272
N17-01	282	283.46	1.46	E444549	WH17168272
N17-02	3.25	5.35	2.1	I027171	WH17168300
N17-02	5.35	7	1.65	I027172	WH17168300
N17-02	7	8.63	1.63	I027173	WH17168300
N17-02	8.63	10.37	1.74	I027174	WH17168300
N17-02	10.37	11.9	1.53	I027175	WH17168300
N17-02	11.9	13.4	1.5	I027176	WH17168300
N17-02	13.4	14.62	1.22	I027177	WH17168300
N17-02	14.62	16.05	1.43	I027178	WH17168300
N17-02	16.05	17.6	1.55	I027179	WH17168300
N17-02	17.6	19	1.4	I027181	WH17168300
N17-02	19	20.35	1.35	I027182	WH17168300
N17-02	20.35	21.3	0.95	I027183	WH17168300
N17-02	21.3	23	1.7	I027184	WH17168300
N17-02	23	24.58	1.58	I027185	WH17168300
N17-02	24.58	26.28	1.7	I027186	WH17168300
N17-02	26.28	28.66	2.38	I027187	WH17168300
N17-02	28.66	30.48	1.82	I027188	WH17168300
N17-02	30.48	31.9	1.42	I027189	WH17168300
N17-02	31.9	33.47	1.57	I027191	WH17168300
N17-02	33.47	34.9	1.43	I027192	WH17168300
N17-02	34.9	37	2.1	I027193	WH17168300
N17-02	37	39.05	2.05	I027194	WH17168300
N17-02	39.05	41.05	2	I027195	WH17168300
N17-02	41.05	43.05	2	I027196	WH17168300
N17-02	43.05	44.6	1.55	I027197	WH17168300
N17-02	44.6	46.12	1.52	I027198	WH17168300
N17-02	46.12	48.25	2.13	I027199	WH17168300
N17-02	48.25	50.7	2.45	I027201	WH17168300
N17-02	50.7	52.6	1.9	I027202	WH17168300
N17-02	52.6	54.54	1.94	I027203	WH17168300
N17-02	54.54	56	1.46	I027204	WH17168300
N17-02	56	57.91	1.91	I027205	WH17168300
N17-02	57.91	59.96	2.05	I027206	WH17168300
N17-02	59.96	62	2.04	I027207	WH17168300
N17-02	62	64	2	I027208	WH17168300
N17-02	64	65.9	1.9	I027209	WH17168300
N17-02	65.9	68.02	2.12	I027211	WH17168300
N17-02	68.02	70.02	2	I027212	WH17168300
N17-02	70.02	71.8	1.78	I027213	WH17168300
N17-02	71.8	73.73	1.93	I027214	WH17168300
N17-02	73.73	75.6	1.87	I027215	WH17168300
N17-02	75.6	77.6	2	I027216	WH17168300
N17-02	77.6	79.7	2.1	I027217	WH17168300
N17-02	79.7	81.7	2	I027218	WH17168300
N17-02	81.7	83.77	2.07	I027219	WH17168300
N17-02	83.77	85.77	2	I027221	WH17168300
N17-02	85.77	87.9	2.13	I027222	WH17168300
N17-02	87.9	89.67	1.77	I027223	WH17168300
N17-02	89.67	91.44	1.77	I027224	WH17168300
N17-02	91.44	92.52	1.08	I027225	WH17168300
N17-02	92.52	94.18	1.66	I027226	WH17168300
N17-02	94.18	95.6	1.42	I027228	WH17168300
N17-02	95.6	96.88	1.28	I027229	WH17168300
N17-02	96.88	98.13	1.25	I027230	WH17168300
N17-02	98.13	99.23	1.1	I027232	WH17168300
N17-02	99.23	100.24	1.01	I027233	WH17168300
N17-02	100.24	102.3	2.06	I027234	WH17168300
N17-02	102.3	104.3	2	I027235	WH17168300
N17-02	104.3	106.3	2	I027236	WH17168300
N17-02	106.3	108.3	2	I027237	WH17168300
N17-02	108.3	110.3	2	I027238	WH17168300
N17-02	110.3	112.3	2	I027239	WH17168300
N17-02	112.3	114.3	2	I027241	WH17168300
N17-02	114.3	116.3	2	I027242	WH17168300
N17-02	116.3	118.3	2	I027243	WH17168300
N17-02	118.3	120.3	2	I027244	WH17168300
N17-02	120.3	122.38	2.08	I027245	WH17168300
N17-02	122.38	124.2	1.82	I027246	WH17168300
N17-02	124.2	125.89	1.69	I027247	WH17168300
N17-02	125.89	127.8	1.91	I027248	WH17168316
N17-02	127.8	129.7	1.9	I027249	WH17168316
N17-02	129.7	131.7	2	I027251	WH17168316
N17-02	131.7	133.55	1.85	I027252	WH17168316
N17-02	133.55	135.46	1.91	I027253	WH17168316
N17-02	135.46	137.46	2	I027254	WH17168316
N17-02	137.46	139.46	2	I027255	WH17168316
N17-02	139.46	141.5	2.04	I027256	WH17168316
N17-02	141.5	143.5	2	I027257	WH17168316
N17-02	143.5	145.5	2	I027258	WH17168316
N17-02	145.5	147.5	2	I027259	WH17168316
N17-02	147.5	149.45	1.95	I027261	WH17168316
N17-02	149.45	151.5	2.05	I027262	WH17168316
N17-02	151.5	153.5	2	I027263	WH17168316
N17-02	153.5	155.5	2	I027264	WH17168316
N17-02	155.5	157.5	2	I027265	WH17168316
N17-02	157.5	159.22	1.72	I027266	WH17168316
N17-02	159.22	160.72	1.5	I027267	WH17168316
N17-02	160.72	162.22	1.5	I027268	WH17168316
N17-02	162.22	164	1.78	I027270	WH17168316
N17-02	164	166	2	I027271	WH17168316
N17-02	166	168	2	I027272	WH17168316
N17-02	168	170	2	I027273	WH17168316
N17-02	170	171.85	1.85	I027274	WH17168316
N17-02	171.85	173.1	1.25	I027275	WH17168316
N17-02	173.1	174.5	1.4	I027276	WH17168316
N17-02	174.5	176	1.5	I027277	WH17168316
N17-02	176	177.6	1.6	I027278	WH17168316
N17-02	177.6	179.1	1.5	I027279	WH17168316
N17-02	179.1	181	1.9	I027281	WH17168316
N17-02	181	183	2	I027282	WH17168316
N17-02	183	185	2	I027283	WH17168316
N17-02	185	187	2	I027284	WH17168316
N17-02	187	189	2	I027285	WH17168316
N17-02	189	191	2	I027286	WH17168316
N17-02	191	193	2	I027287	WH17168316
N17-02	193	195	2	I027288	WH17168316
N17-02	195	197	2	I027289	WH17168316
N17-02	197	198.5	1.5	I027291	WH17168316
N17-02	198.5	200	1.5	I027292	WH17168316
N17-02	200	201.54	1.54	I027293	WH17168316
N17-02	201.54	203.17	1.63	I027294	WH17168316
N17-02	203.17	205	1.83	I027295	WH17168316
N17-02	205	207	2	I027296	WH17168316
N17-02	207	209	2	I027297	WH17168316
N17-02	209	211	2	I027298	WH17168316
N17-02	211	213	2	I027299	WH17168316
N17-02	213	214.5	1.5	I027301	WH17168316
N17-02	214.5	216	1.5	I027302	WH17168316
N17-02	216	217.26	1.26	I027303	WH17168316

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-02	217.26	219	1.74	I027304	WH17168316
N17-02	219	220.06	1.06	I027305	WH17168316
N17-02	220.06	222.2	2.14	I027306	WH17168316
N17-02	222.2	224.3	2.1	I027307	WH17168316
N17-02	224.3	226.3	2	I027308	WH17168316
N17-02	226.3	228.13	1.83	I027309	WH17168316
N17-02	228.13	230	1.87	I027311	WH17168316
N17-02	230	232	2	I027312	WH17168316
N17-02	232	234	2	I027313	WH17168316
N17-02	234	235.7	1.7	I027314	WH17168316
N17-02	235.7	237	1.3	I027315	WH17168316
N17-02	237	238.5	1.5	I027316	WH17168316
N17-02	238.5	240.1	1.6	I027317	WH17168316
N17-02	240.1	241.86	1.76	I027318	WH17168316
N17-02	241.86	243.5	1.64	I027319	WH17168316
N17-02	243.5	245	1.5	I027321	WH17168316
N17-02	245	246.63	1.63	I027322	WH17168316
N17-02	246.63	248.6	1.97	I027323	WH17168316
N17-02	248.6	250.6	2	I027324	WH17168316
N17-02	250.6	252.6	2	I027325	WH17168316
N17-02	252.6	254.6	2	I027326	WH17168316
N17-02	254.6	256.6	2	I027327	WH17168316
N17-02	256.6	258.6	2	I027328	WH17168316
N17-02	258.6	260.6	2	I027329	WH17168316
N17-03	7.7	9	1.3	I027331	WH17168316
N17-03	9	11	2	I027332	WH17168316
N17-03	11	13	2	I027333	WH17168316
N17-03	13	15	2	I027334	WH17168316
N17-03	15	17	2	I027335	WH17168316
N17-03	17	19	2	I027336	WH17168316
N17-03	19	21	2	I027337	WH17168316
N17-03	21	22.97	1.97	I027338	WH17168316
N17-03	22.97	24.96	1.99	I027339	WH17168316
N17-03	24.96	27.13	2.17	I027341	WH17168316
N17-03	27.13	28.9	1.77	I027342	WH17168316
N17-03	28.9	31	2.1	I027343	WH17168316
N17-03	31	33	2	I027344	WH17168316
N17-03	33	35	2	I027345	WH17168316
N17-03	35	36.89	1.89	I027346	WH17168316
N17-03	36.89	39	2.11	I027347	WH17168316
N17-03	39	41.06	2.06	I027348	WH17168316
N17-03	41.06	42.98	1.92	I027349	WH17168316
N17-03	42.98	45	2.02	I027351	WH17168316
N17-03	45	46.52	1.52	I027352	WH17168316
N17-03	46.52	47.86	1.34	I027353	WH17168316
N17-03	47.86	49.13	1.27	I027354	WH17168316
N17-03	49.13	50.78	1.65	I027355	WH17168316
N17-03	50.78	51.82	1.04	I027356	WH17168316
N17-03	51.82	53.1	1.28	I027357	WH17168316
N17-03	53.1	54.86	1.76	I027358	WH17168316
N17-03	54.86	56.5	1.64	I027359	WH17168316
N17-03	56.5	58	1.5	I027361	WH17168316
N17-03	58	60.01	2.01	I027362	WH17168316
N17-03	60.01	61.95	1.94	I027363	WH17168316
N17-03	61.95	64	2.05	I027364	WH17168316
N17-03	64	66	2	I027365	WH17168316
N17-03	66	67.6	1.6	I027366	WH17168316
N17-03	67.6	69	1.4	I027367	WH17168316
N17-03	69	71	2	I027368	WH17168316
N17-03	71	72.4	1.4	I027369	WH17168316
N17-03	72.4	74.3	1.9	I027371	WH17168316_revised
N17-03	74.3	76.2	1.9	I027372	WH17168316_revised
N17-03	76.2	77.34	1.14	I027373	WH17168316_revised
N17-03	77.34	78.46	1.12	I027374	WH17168316_revised
N17-03	78.46	79.66	1.2	I027375	WH17168316_revised
N17-03	79.66	80.78	1.12	I027376	WH17168316_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-03	80.78	82.4	1.62	I027377	WH17168316_revised
N17-03	82.4	84.42	2.02	I027378	WH17168316_revised
N17-03	84.42	85.91	1.49	I027379	WH17168316_revised
N17-03	85.91	87.94	2.03	I027381	WH17168316_revised
N17-03	87.94	90	2.06	I027382	WH17168316_revised
N17-03	90	92.1	2.1	I027383	WH17168316_revised
N17-03	92.1	94.08	1.98	I027384	WH17168316_revised
N17-03	94.08	96.3	2.22	I027385	WH17168316_revised
N17-03	96.3	97.99	1.69	I027386	WH17168316_revised
N17-03	97.99	100	2.01	I027387	WH17168316_revised
N17-03	100	101.97	1.97	I027388	WH17168316_revised
N17-03	101.97	104.08	2.11	I027389	WH17168316_revised
N17-03	104.08	106	1.92	I027391	WH17168316_revised
N17-03	106	107.74	1.74	I027392	WH17168316_revised
N17-03	107.74	109.09	1.35	I027393	WH17168316_revised
N17-03	109.09	111	1.91	I027394	WH17168316_revised
N17-03	111	112.97	1.97	I027395	WH17168316_revised
N17-03	112.97	115.1	2.13	I027396	WH17168316_revised
N17-03	115.1	116.89	1.79	I027397	WH17168316_revised
N17-03	116.89	119	2.11	I027398	WH17168316_revised
N17-03	119	121	2	I027399	WH17168316_revised
N17-03	121	123.14	2.14	I027401	WH17168316_revised
N17-03	123.14	125.18	2.04	I027402	WH17168316_revised
N17-03	125.18	127.08	1.9	I027403	WH17168316_revised
N17-03	127.08	129.18	2.1	I027404	WH17168316_revised
N17-03	129.18	130.11	0.93	I027405	WH17168316_revised
N17-03	130.11	132	1.89	I027406	WH17168316_revised
N17-03	132	134.11	2.11	I027407	WH17168316_revised
N17-03	134.11	136	1.89	I027408	WH17168316_revised
N17-03	136	138.24	2.24	I027409	WH17168316_revised
N17-03	138.24	140.21	1.97	I027411	WH17168316_revised
N17-03	140.21	142.3	2.09	I027412	WH17168316_revised
N17-03	142.3	144	1.7	I027413	WH17168316_revised
N17-03	144	146	2	I027414	WH17168316_revised
N17-03	146	146.9	0.9	I027415	WH17168316_revised
N17-03	146.9	147.8	0.9	I027416	WH17168316_revised
N17-03	147.8	149.2	1.4	I027417	WH17168316_revised
N17-03	149.2	151.08	1.88	I027418	WH17168316_revised
N17-03	151.08	153.04	1.96	I027419	WH17168316_revised
N17-03	153.04	154.32	1.28	I027421	WH17168316
N17-03	154.32	155.65	1.33	I027422	WH17168316
N17-03	155.65	156.62	0.97	I027423	WH17168316
N17-03	156.62	158.5	1.88	I027424	WH17168316
N17-03	158.5	160.54	2.04	I027425	WH17168316
N17-03	160.54	161.89	1.35	I027426	WH17168316
N17-03	161.89	163.12	1.23	I027427	WH17168316
N17-03	163.12	165	1.88	I027428	WH17168316
N17-03	165	167	2	I027429	WH17168316
N17-03	167	169	2	I027431	WH17168316
N17-03	169	171	2	I027432	WH17168316
N17-03	171	173	2	I027433	WH17168316
N17-03	173	175	2	I027434	WH17168316
N17-03	175	177.05	2.05	I027435	WH17168316
N17-03	177.05	179	1.95	I027436	WH17168316
N17-03	179	181	2	I027437	WH17168316
N17-03	181	183.03	2.03	I027438	WH17168316
N17-03	183.03	184.96	1.93	I027439	WH17168316
N17-03	184.96	187.06	2.1	I027441	WH17168316
N17-03	187.06	189	1.94	I027442	WH17168316
N17-03	189	190.5	1.5	I027443	WH17168316
N17-03	190.5	192.4	1.9	I027444	WH17168316
N17-03	192.4	194.4	2	I027445	WH17168316
N17-03	194.4	196	1.6	I027446	WH17168316
N17-03	196	198	2	I027447	WH17168316
N17-03	198	199.5	1.5	I027448	WH17168316
N17-03	199.5	201	1.5	I027449	WH17168316

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-03	201	203	2	I027451	WH17168316
N17-03	203	204.5	1.5	I027452	WH17168316
N17-03	204.5	205.92	1.42	I027453	WH17168316
N17-03	205.92	207.47	1.55	I027454	WH17168316
N17-03	207.47	209	1.53	I027455	WH17168316
N17-03	209	209.92	0.92	I027456	WH17168316
N17-03	209.92	212	2.08	I027457	WH17168316
N17-03	212	214	2	I027458	WH17168316
N17-03	214	216	2	I027459	WH17168316
N17-03	216	218	2	I027461	WH17168316
N17-03	218	220	2	I027462	WH17168316
N17-03	220	222	2	I027463	WH17168316
N17-03	222	224	2	I027464	WH17168316
N17-03	224	226	2	I027465	WH17168316
N17-03	226	228	2	I027466	WH17168316
N17-03	228	230.08	2.08	I027467	WH17168316
N17-03	230.08	231.95	1.87	I027468	WH17168316
N17-03	231.95	234	2.05	I027469	WH17168316
N17-03	234	236	2	I027471	WH17168316
N17-03	236	238	2	I027472	WH17168316
N17-03	238	240.08	2.08	I027473	WH17168316
N17-03	240.08	242.08	2	I027474	WH17168316
N17-03	242.08	243.96	1.88	I027475	WH17171147
N17-03	243.96	246	2.04	I027476	WH17171147
N17-03	246	247.12	1.12	I027477	WH17171147
N17-03	247.12	248.46	1.34	I027478	WH17171147
N17-03	248.46	250	1.54	I027479	WH17171147
N17-03	250	251.3	1.3	I027481	WH17171147
N17-03	251.3	253	1.7	I027482	WH17171147
N17-03	253	255	2	I027483	WH17171147
N17-03	255	257	2	I027484	WH17171147
N17-03	257	259.08	2.08	I027485	WH17171147
N17-03	259.08	260.28	1.2	I027486	WH17171147
N17-04	21	23	2	E444551	WH17168272
N17-04	23	25	2	E444552	WH17168272
N17-04	25	27	2	E444553	WH17168272
N17-04	27	28	1	E444554	WH17168272
N17-04	28	29	1	E444555	WH17168272
N17-04	29	31	2	E444556	WH17168272
N17-04	31	32	1	E444557	WH17168272
N17-04	32	33	1	E444558	WH17168272
N17-04	33	34	1	E444559	WH17168272
N17-04	34	35	1	E444561	WH17168272
N17-04	35	36	1	E444562	WH17168272
N17-04	36	37	1	E444563	WH17168272
N17-04	37	38	1	E444564	WH17168272
N17-04	38	40	2	E444565	WH17168272
N17-04	40	42	2	E444566	WH17168272
N17-04	42	44	2	E444567	WH17168272
N17-04	44	46	2	E444568	WH17168272
N17-04	46	48	2	E444569	WH17168272
N17-04	48	50	2	E444571	WH17168272
N17-04	50	50.89	0.89	E444572	WH17168272
N17-04	50.89	52	1.11	E444573	WH17168272
N17-04	52	54	2	E444574	WH17168272
N17-04	54	56	2	E444575	WH17168272
N17-04	56	57.91	1.91	E444576	WH17168272
N17-04	57.91	59	1.09	E444577	WH17168272
N17-04	59	59.87	0.87	E444578	WH17168272
N17-04	59.87	61	1.13	E444579	WH17168272
N17-04	61	63	2	E444581	WH17168272
N17-04	63	65	2	E444582	WH17168272
N17-04	65	67	2	E444583	WH17168272
N17-04	67	69	2	E444584	WH17168272
N17-04	69	72	3	E444585	WH17168272
N17-04	72	75	3	E444586	WH17168272

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-04	75	77	2	E444587	WH17168272
N17-04	77	79	2	E444588	WH17168272
N17-04	79	81	2	E444589	WH17168272
N17-04	81	83.36	2.36	E444591	WH17168272
N17-04	83.36	85	1.64	E444592	WH17168272
N17-04	85	87	2	E444593	WH17168272
N17-04	87	89	2	E444594	WH17168272
N17-04	89	91	2	E444595	WH17168272
N17-04	91	93	2	E444596	WH17168272
N17-04	93	95	2	E444597	WH17168272
N17-04	95	97	2	E444598	WH17168272
N17-04	97	99	2	E444599	WH17168272
N17-04	99	101	2	E444601	WH17168272
N17-04	101	103	2	E444602	WH17168272
N17-04	103	105	2	E444603	WH17168272
N17-04	105	107	2	E444604	WH17168272
N17-04	107	109	2	E444605	WH17168272
N17-04	109	111	2	E444606	WH17168272
N17-04	111	113	2	E444607	WH17168272
N17-04	113	115	2	E444608	WH17168272
N17-04	115	117	2	E444609	WH17168272
N17-04	117	119	2	E444611	WH17168272
N17-04	119	121.49	2.49	E444612	WH17168272
N17-04	121.49	123	1.51	E444613	WH17168272
N17-04	123	125	2	E444614	WH17168272
N17-04	125	127	2	E444615	WH17168272
N17-04	127	128.5	1.5	E444616	WH17168272
N17-04	128.5	130	1.5	E444617	WH17168272
N17-04	130	131.5	1.5	E444618	WH17168272
N17-04	131.5	133	1.5	E444619	WH17168272
N17-04	133	134.6	1.6	E444621	WH17168272
N17-04	134.6	136	1.4	E444622	WH17168272
N17-04	136	138	2	E444623	WH17168272
N17-04	138	140	2	E444624	WH17168272
N17-04	140	142	2	E444625	WH17168272
N17-04	142	144	2	E444626	WH17168272
N17-04	144	146	2	E444627	WH17168272
N17-04	146	148	2	E444628	WH17168272
N17-04	148	150	2	E444629	WH17168272
N17-04	150	152	2	E444631	WH17168272
N17-04	152	154	2	E444632	WH17168300
N17-04	154	156	2	E444633	WH17168300
N17-04	156	158	2	E444634	WH17168300
N17-04	158	160	2	E444635	WH17168300
N17-04	160	162	2	E444636	WH17168300
N17-04	162	164	2	E444637	WH17168300
N17-04	164	166	2	E444638	WH17168300
N17-04	166	168	2	E444639	WH17168300
N17-04	168	170	2	E444641	WH17168300
N17-04	170	172	2	E444642	WH17168300
N17-04	172	174	2	E444643	WH17168300
N17-04	174	176	2	E444644	WH17168300
N17-04	176	178	2	E444645	WH17168300
N17-04	178	180	2	E444646	WH17168300
N17-04	180	182	2	E444647	WH17168300
N17-04	182	184	2	E444648	WH17168300
N17-04	184	186	2	E444649	WH17168300
N17-04	186	188	2	E444651	WH17168300
N17-04	188	190	2	E444652	WH17168300
N17-04	190	192	2	E444653	WH17168300
N17-04	192	194	2	E444654	WH17168300
N17-04	194	196	2	E444655	WH17168300
N17-04	196	198	2	E444656	WH17168300
N17-04	198	200	2	E444657	WH17168300
N17-04	200	202	2	E444658	WH17168300
N17-04	202	204	2	E444659	WH17168300

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-04	204	206	2	E444661	WH17168300
N17-04	206	208	2	E444662	WH17168300
N17-04	208	210	2	E444663	WH17168300
N17-04	210	212	2	E444664	WH17168300
N17-04	212	214	2	E444665	WH17168300
N17-04	214	215.9	1.9	E444666	WH17168300
N17-04	215.9	218	2.1	E444667	WH17168300
N17-04	218	220	2	E444668	WH17168300
N17-04	220	222	2	E444669	WH17168300
N17-04	222	224	2	E444671	WH17168300
N17-04	224	226	2	E444672	WH17168300
N17-04	226	228	2	E444673	WH17168300
N17-04	228	230	2	E444674	WH17168300
N17-04	230	232	2	E444675	WH17168300
N17-04	232	234	2	E444676	WH17168300
N17-04	234	236	2	E444677	WH17168300
N17-04	236	238	2	E444678	WH17168300
N17-04	238	240	2	E444679	WH17168300
N17-04	240	242	2	E444681	WH17168300
N17-04	242	244	2	E444682	WH17168300
N17-04	244	246	2	E444683	WH17168300
N17-04	246	248	2	E444684	WH17168300
N17-04	248	250	2	E444685	WH17168300
N17-04	250	252	2	E444686	WH17168300
N17-04	252	254	2	E444687	WH17168300
N17-04	254	256	2	E444688	WH17168300
N17-04	256	258	2	E444689	WH17168300
N17-04	258	260.6	2.6	E444691	WH17168300
N17-05	3.35	7	3.65	I027487	WH17171147
N17-05	7	9	2	I027488	WH17171147
N17-05	9	11	2	I027489	WH17171147
N17-05	11	13	2	I027491	WH17171147
N17-05	13	15	2	I027492	WH17171147
N17-05	15	17	2	I027493	WH17171147
N17-05	17	19	2	I027494	WH17171147
N17-05	19	21	2	I027495	WH17171147
N17-05	21	23	2	I027496	WH17171147
N17-05	23	25	2	I027497	WH17171147
N17-05	25	27	2	I027498	WH17171147
N17-05	27	29	2	I027499	WH17171147
N17-05	29	31	2	I027501	WH17171147
N17-05	31	33	2	I027502	WH17171147
N17-05	33	35	2	I027503	WH17171147
N17-05	35	37	2	I027504	WH17171147
N17-05	37	39	2	I027505	WH17171147
N17-05	39	41	2	I027506	WH17171147
N17-05	41	43	2	I027507	WH17171147
N17-05	43	44.94	1.94	I027508	WH17171147
N17-05	44.94	46.4	1.46	I027509	WH17171147
N17-05	46.4	47.8	1.4	I027511	WH17171147
N17-05	47.8	49.04	1.24	I027512	WH17171147
N17-05	49.04	51.02	1.98	I027513	WH17171147
N17-05	51.02	53	1.98	I027514	WH17171147
N17-05	53	55	2	I027515	WH17171147
N17-05	55	57	2	I027516	WH17171147
N17-05	57	59	2	I027517	WH17171147
N17-05	59	61	2	I027518	WH17171147
N17-05	61	62.98	1.98	I027519	WH17171147
N17-05	62.98	65	2.02	I027521	WH17171147
N17-05	65	67	2	I027522	WH17171147
N17-05	67	69	2	I027523	WH17171147
N17-05	69	70.1	1.1	I027524	WH17171147
N17-05	70.1	72	1.9	I027525	WH17171147
N17-05	72	74	2	I027526	WH17171147
N17-05	74	76	2	I027527	WH17171147
N17-05	76	78	2	I027528	WH17171147
N17-05	78	80	2	I027529	WH17171147
N17-05	80	82	2	I027531	WH17171147
N17-05	82	84	2	I027532	WH17171147
N17-05	84	86	2	I027533	WH17171147
N17-05	86	88	2	I027534	WH17171147
N17-05	88	89.4	1.4	I027535	WH17171147
N17-05	89.4	91.4	2	I027536	WH17171147
N17-05	91.4	92.96	1.56	I027537	WH17171147
N17-05	92.96	95.03	2.07	I027538	WH17171147
N17-05	95.03	97.06	2.03	I027539	WH17171147
N17-05	97.06	99	1.94	I027541	WH17171147
N17-05	99	100	1	I027542	WH17171147
N17-05	100	101.3	1.3	I027543	WH17171147
N17-05	101.3	103.1	1.8	I027544	WH17171147
N17-05	103.1	105	1.9	I027545	WH17171147
N17-05	105	107	2	I027546	WH17171147
N17-05	107	109	2	I027547	WH17171147
N17-05	109	110.94	1.94	I027548	WH17171147
N17-05	110.94	113	2.06	I027549	WH17171147
N17-05	113	115	2	I027551	WH17171147
N17-05	115	117	2	I027552	WH17173215
N17-05	117	119	2	I027553	WH17173215
N17-05	119	120	1	I027554	WH17173215
N17-05	120	121.92	1.92	I027556	WH17173215
N17-05	121.92	123.9	1.98	I027557	WH17173215
N17-05	123.9	125.15	1.25	I027558	WH17173215
N17-05	125.15	126.2	1.05	I027559	WH17173215
N17-05	126.2	128	1.8	I027561	WH17173215
N17-05	128	130	2	I027562	WH17173215
N17-05	130	131.93	1.93	I027563	WH17173215
N17-05	131.93	134	2.07	I027564	WH17173215
N17-05	134	136	2	I027565	WH17173215
N17-05	136	137.5	1.5	I027566	WH17173215
N17-05	137.5	139	1.5	I027567	WH17173215
N17-05	139	140	1	I027568	WH17173215
N17-05	140	142	2	I027569	WH17173215
N17-05	142	144.06	2.06	I027571	WH17173215
N17-05	144.06	146	1.94	I027572	WH17173215
N17-05	146	147.95	1.95	I027573	WH17173215
N17-05	147.95	149.75	1.8	I027574	WH17173215
N17-05	149.75	151.73	1.98	I027575	WH17173215
N17-05	151.73	153.74	2.01	I027576	WH17173215
N17-05	153.74	155	1.26	I027577	WH17173215
N17-05	155	157	2	I027578	WH17173215
N17-05	157	158.8	1.8	I027579	WH17173215
N17-05	158.8	160.05	1.25	I027581	WH17173215
N17-05	160.05	162	1.95	I027582	WH17173215
N17-05	162	164.04	2.04	I027583	WH17173215
N17-05	164.04	166	1.96	I027584	WH17173215
N17-05	166	168	2	I027585	WH17173215
N17-05	168	170	2	I027586	WH17173215
N17-05	170	171.98	1.98	I027587	WH17173215
N17-05	171.98	173.95	1.97	I027588	WH17173215
N17-05	173.95	176.05	2.1	I027589	WH17173215
N17-05	176.05	177	0.95	I027591	WH17173215
N17-05	177	178.17	1.17	I027592	WH17173215
N17-05	178.17	180	1.83	I027593	WH17173215
N17-05	180	182	2	I027594	WH17173215
N17-05	182	183.89	1.89	I027595	WH17173215
N17-05	183.89	186	2.11	I027596	WH17173215
N17-05	186	188	2	I027597	WH17173215
N17-05	188	190	2	I027598	WH17173215
N17-05	190	191.55	1.55	I027599	WH17173215
N17-05	191.55	193	1.45	I027601	WH17173215
N17-05	193	194.3	1.3	I027602	WH17173215
N17-05	194.3	195.6	1.3	I027603	WH17173215

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-05	195.6	197.1	1.5	I027604	WH17173215
N17-05	197.1	198.5	1.4	I027605	WH17173215
N17-05	198.5	199.94	1.44	I027606	WH17173215
N17-05	199.94	201.5	1.56	I027607	WH17173215
N17-05	201.5	203.25	1.75	I027609	WH17173215
N17-05	203.25	204.8	1.55	I027611	WH17173215
N17-05	204.8	206.3	1.5	I027613	WH17173215
N17-05	206.3	207.8	1.5	I027615	WH17173215
N17-05	207.8	209	1.2	I027616	WH17173215
N17-05	209	211	2	I027617	WH17173215
N17-05	211	212.94	1.94	I027618	WH17173215
N17-05	212.94	214.5	1.56	I027619	WH17173215
N17-05	214.5	216	1.5	I027621	WH17173215
N17-05	216	218	2	I027622	WH17173215
N17-05	218	219.96	1.96	I027623	WH17173215
N17-05	219.96	222	2.04	I027624	WH17173215
N17-05	222	223.5	1.5	I027625	WH17173215
N17-05	223.5	224.74	1.24	I027626	WH17173215
N17-05	224.74	226.81	2.07	I027627	WH17173215
N17-05	226.81	228	1.19	I027628	WH17173215
N17-05	228	230	2	I027629	WH17173215
N17-05	230	232	2	I027631	WH17173215
N17-05	232	234	2	I027632	WH17173215
N17-05	234	236	2	I027633	WH17173215
N17-05	236	237.96	1.96	I027634	WH17173215
N17-05	237.96	240	2.04	I027635	WH17173215
N17-05	240	242	2	I027636	WH17173215
N17-05	242	244	2	I027637	WH17173215
N17-05	244	246	2	I027638	WH17173215
N17-05	246	248	2	I027639	WH17173215
N17-05	248	250	2	I027641	WH17173215
N17-05	250	252	2	I027642	WH17173215
N17-05	252	254	2	I027643	WH17173215
N17-05	254	256	2	I027644	WH17173215
N17-05	256	258	2	I027645	WH17173215
N17-05	258	260	2	I027646	WH17173215
N17-05	260	262	2	I027647	WH17173215
N17-05	262	264	2	I027648	WH17173215
N17-05	264	264.95	0.95	I027649	WH17173215
N17-05	264.95	266.35	1.4	I027651	WH17173215
N17-05	266.35	267.97	1.62	I027652	WH17173215
N17-05	267.97	270	2.03	I027653	WH17173215
N17-05	270	271.82	1.82	I027654	WH17173215
N17-05	271.82	273.1	1.28	I027655	WH17173215
N17-05	273.1	275.1	2	I027656	WH17173215
N17-05	275.1	277	1.9	I027657	WH17173215
N17-05	277	279.2	2.2	I027658	WH17173215
N17-06A	31	33	2	E444707	WH17168300
N17-06A	33	35	2	E444708	WH17168300
N17-06A	35	37	2	E444709	WH17168300
N17-06A	37	39	2	E444711	WH17168300
N17-06A	39	40.5	1.5	E444712	WH17168300
N17-06A	40.5	42	1.5	E444713	WH17168300
N17-06A	42	44	2	E444714	WH17168300
N17-06A	44	45.5	1.5	E444715	WH17168300
N17-06A	45.5	47	1.5	E444716	WH17168300
N17-06A	47	49	2	E444717	WH17168300
N17-06A	49	51	2	E444718	WH17168300
N17-06A	51	53	2	E444719	WH17168300
N17-06A	53	55	2	E444721	WH17171147
N17-06A	55	57	2	E444722	WH17171147
N17-06A	57	59	2	E444723	WH17171147
N17-06A	59	61	2	E444724	WH17171147
N17-06A	61	63	2	E444725	WH17171147
N17-06A	63	65	2	E444726	WH17171147
N17-06A	65	66.8	1.8	E444727	WH17171147

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-06A	66.8	68	1.2	E444728	WH17171147
N17-06A	68	69.1	1.1	E444729	WH17171147
N17-06A	69.1	70.77	1.67	E444731	WH17171147
N17-06A	70.77	72	1.23	E444732	WH17171147
N17-06A	72	73.5	1.5	E444733	WH17171147
N17-06A	73.5	75	1.5	E444734	WH17171147
N17-06A	75	76.5	1.5	E444735	WH17171147
N17-06A	76.5	78	1.5	E444736	WH17171147
N17-06A	78	80	2	E444737	WH17171147
N17-06A	80	82	2	E444738	WH17171147
N17-06A	82	84	2	E444739	WH17171147
N17-06A	84	86	2	E444741	WH17171147
N17-06A	86	88	2	E444742	WH17171147
N17-06A	88	90	2	E444743	WH17171147
N17-06A	90	92	2	E444744	WH17171147
N17-06A	92	94	2	E444745	WH17171147
N17-06A	94	96	2	E444746	WH17171147
N17-06A	96	97.54	1.54	E444747	WH17171147
N17-06B	17.3	19	1.7	E444748	WH17171147
N17-06B	19	20.5	1.5	E444749	WH17171147
N17-06B	20.5	21.53	1.03	E444751	WH17171147
N17-06B	21.53	23	1.47	E444752	WH17171147
N17-06B	23	24.84	1.84	E444753	WH17171147
N17-06B	24.84	26	1.16	E444754	WH17171147
N17-06B	26	28	2	E444755	WH17171147
N17-06B	28	30	2	E444756	WH17171147
N17-06B	30	31.5	1.5	E444757	WH17171147
N17-06B	31.5	33	1.5	E444758	WH17171147
N17-06B	33	34.85	1.85	E444759	WH17171147
N17-06B	34.85	36	1.15	E444761	WH17171147
N17-06B	36	38	2	E444762	WH17171147
N17-06B	38	39.5	1.5	E444763	WH17171147
N17-06B	39.5	41	1.5	E444764	WH17171147
N17-06B	41	42.5	1.5	E444765	WH17171147
N17-06B	42.5	44	1.5	E444766	WH17171147
N17-06B	44	45.5	1.5	E444767	WH17171147
N17-06B	45.5	47	1.5	E444768	WH17171147
N17-06B	47	49	2	E444769	WH17171147
N17-06B	49	51	2	E444771	WH17171147
N17-06B	51	53	2	E444772	WH17171147
N17-06B	53	55	2	E444773	WH17171147
N17-06B	55	57	2	E444774	WH17171147
N17-06B	57	59	2	E444775	WH17171147
N17-06B	59	61	2	E444776	WH17171147
N17-06B	61	63	2	E444777	WH17171147
N17-06B	63	65	2	E444778	WH17171147
N17-06B	65	67	2	E444779	WH17171147
N17-06B	67	69	2	E444781	WH17171147
N17-06B	69	70.87	1.87	E444782	WH17171147
N17-06B	70.87	72	1.13	E444783	WH17171147
N17-06B	72	74	2	E444784	WH17171147
N17-06B	74	76	2	E444785	WH17171147
N17-06B	76	78	2	E444786	WH17171147
N17-06B	78	79.5	1.5	E444787	WH17171147
N17-06B	79.5	81	1.5	E444788	WH17171147
N17-06B	81	82.5	1.5	E444789	WH17171147
N17-06B	82.5	84.5	2	E444791	WH17171147
N17-06B	84.5	86.42	1.92	E444792	WH17171147
N17-06B	86.42	88	1.58	E444793	WH17171147
N17-06B	88	90	2	E444794	WH17171147
N17-06B	90	92	2	E444795	WH17171147
N17-06B	92	93.5	1.5	E444796	WH17171147
N17-06B	93.5	95	1.5	E444797	WH17171147
N17-06B	95	96.7	1.7	E444798	WH17171147
N17-06B	96.7	98	1.3	E444799	WH17171147
N17-06B	98	100	2	E444801	WH17171147

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-06B	100	102	2	E444802	WH17171147
N17-06B	102	104	2	E444803	WH17171147
N17-06B	104	106	2	E444804	WH17171147
N17-06B	106	107.5	1.5	E444805	WH17171147
N17-06B	107.5	109	1.5	E444806	WH17171147
N17-06B	109	110.3	1.3	E444807	WH17171147
N17-06B	110.3	112	1.7	E444808	WH17171147
N17-06B	112	114	2	E444809	WH17171147
N17-06B	114	116	2	E444811	WH17171147
N17-06B	116	117.5	1.5	E444812	WH17171147
N17-06B	117.5	119	1.5	E444813	WH17171147
N17-06B	119	121	2	E444814	WH17171147
N17-06B	121	123	2	E444815	WH17171147
N17-06B	123	125	2	E444816	WH17171147
N17-06B	125	127	2	E444817	WH17171147
N17-06B	127	128.36	1.36	E444818	WH17171147
N17-06B	128.36	130	1.64	E444819	WH17171147
N17-06B	130	132	2	E444821	WH17171147
N17-06B	132	134	2	E444822	WH17171147
N17-06B	134	136	2	E444823	WH17171147
N17-06B	136	138	2	E444824	WH17171147
N17-06B	138	139.5	1.5	E444825	WH17171147
N17-06B	139.5	141	1.5	E444826	WH17171147
N17-06B	141	142.45	1.45	E444827	WH17171147
N17-06B	142.45	143.98	1.53	E444828	WH17171147
N17-06B	143.98	146	2.02	E444829	WH17171147
N17-06B	146	148	2	E444831	WH17171147
N17-06B	148	150	2	E444832	WH17171147
N17-06B	150	152	2	E444833	WH17171147
N17-06B	152	154	2	E444834	WH17171147
N17-06B	154	156	2	E444835	WH17171147
N17-06B	156	158	2	E444836	WH17171147
N17-06B	158	160	2	E444837	WH17171147
N17-06B	160	162	2	E444838	WH17173209
N17-06B	162	164	2	E444839	WH17173209
N17-06B	164	166	2	E444841	WH17173209
N17-06B	166	168	2	E444842	WH17173209
N17-06B	168	170	2	E444843	WH17173209
N17-06B	170	172	2	E444844	WH17173209
N17-06B	172	173.5	1.5	E444845	WH17173209
N17-06B	173.5	174.72	1.22	E444846	WH17173209
N17-06B	174.72	176	1.28	E444847	WH17173209
N17-06B	176	178	2	E444848	WH17173209
N17-06B	178	180	2	E444849	WH17173209
N17-06B	180	182	2	E444851	WH17173209
N17-06B	182	184	2	E444852	WH17173209
N17-06B	184	186	2	E444853	WH17173209
N17-06B	186	188	2	E444854	WH17173209
N17-06B	188	190	2	E444855	WH17173209
N17-06B	190	192	2	E444856	WH17173209
N17-06B	192	194.07	2.07	E444857	WH17173209
N17-06B	194.07	196	1.93	E444858	WH17173209
N17-06B	196	197.6	1.6	E444859	WH17173209
N17-06B	197.6	199	1.4	E444861	WH17173209
N17-06B	199	200.19	1.19	E444862	WH17173209
N17-06B	200.19	202	1.81	E444863	WH17173209
N17-06B	202	204	2	E444864	WH17173209
N17-06B	204	206	2	E444865	WH17173209
N17-06B	206	208	2	E444866	WH17173209
N17-06B	208	209.15	1.15	E444867	WH17173209
N17-06B	209.15	211.5	2.35	E444868	WH17173209
N17-06B	211.5	213.59	2.09	E444869	WH17173209
N17-06B	213.59	215	1.41	E444871	WH17173209
N17-06B	215	217	2	E444872	WH17173209
N17-06B	217	218.5	1.5	E444873	WH17173209
N17-06B	218.5	219.87	1.37	E444874	WH17173209
N17-06B	219.87	221	1.13	E444875	WH17173209
N17-06B	221	223	2	E444876	WH17173209
N17-06B	223	224.88	1.88	E444877	WH17173209
N17-06B	224.88	226	1.12	E444878	WH17173209
N17-06B	226	227	1	E444879	WH17173209
N17-06B	227	229	2	E444881	WH17173209
N17-06B	229	231	2	E444882	WH17173209
N17-06B	231	233	2	E444883	WH17173209
N17-06B	233	235	2	E444884	WH17173209
N17-06B	235	237	2	E444885	WH17173209
N17-06B	237	239	2	E444886	WH17173209
N17-06B	239	241	2	E444887	WH17173209
N17-06B	241	243	2	E444888	WH17173209
N17-06B	243	245	2	E444889	WH17173209
N17-06B	245	247	2	E444891	WH17173209
N17-06B	247	248.51	1.51	E444892	WH17173209
N17-06B	248.51	250	1.49	E444893	WH17173209
N17-06B	250	252	2	E444894	WH17173209
N17-06B	252	254	2	E444895	WH17173209
N17-06B	254	256	2	E444896	WH17173209
N17-06B	256	258	2	E444897	WH17173209
N17-06B	258	260	2	E444898	WH17173209
N17-06B	260	261.78	1.78	E444899	WH17173209
N17-06B	261.78	263	1.22	E444901	WH17173209
N17-06B	263	264.5	1.5	E444902	WH17173209
N17-06B	264.5	266	1.5	E444903	WH17173209
N17-06B	266	267.2	1.2	E444904	WH17173209
N17-06B	267.2	268.24	1.04	E444905	WH17173209
N17-06B	268.24	270	1.76	E444906	WH17173209
N17-06B	270	271.5	1.5	E444907	WH17173209
N17-06B	271.5	273.33	1.83	E444908	WH17173209
N17-06B	273.33	275	1.67	E444909	WH17173209
N17-06B	275	277	2	E444911	WH17173209
N17-06B	277	279	2	E444912	WH17173209
N17-06B	279	281	2	E444913	WH17173209
N17-06B	281	282.66	1.66	E444914	WH17173209
N17-06B	282.66	284	1.34	E444915	WH17173209
N17-06B	284	286	2	E444916	WH17173209
N17-06B	286	287.5	1.5	E444917	WH17173209
N17-06B	287.5	288.64	1.14	E444918	WH17173209
N17-06B	288.64	289.56	0.92	E444919	WH17173209
N17-06B	289.56	291	1.44	E444921	WH17173209
N17-06B	291	292	1	E444922	WH17173209
N17-06B	292	293.15	1.15	E444923	WH17173209
N17-06B	293.15	295	1.85	E444924	WH17173209
N17-06B	295	296.33	1.33	E444925	WH17173209
N17-06B	296.33	298	1.67	E444926	WH17173209
N17-06B	298	300	2	E444927	WH17173209
N17-06B	300	302	2	E444928	WH17173209
N17-06B	302	304	2	E444929	WH17173209
N17-06B	304	306	2	E444931	WH17173209
N17-06B	306	308	2	E444932	WH17173209
N17-06B	308	310	2	E444933	WH17173209
N17-06B	310	312	2	E444934	WH17173209
N17-06B	312	314	2	E444935	WH17173209
N17-06B	314	316	2	E444936	WH17173209
N17-06B	316	318	2	E444937	WH17173209
N17-06B	318	320	2	E444938	WH17173209
N17-06B	320	322	2	E444939	WH17173209
N17-06B	322	324	2	E444941	WH17173209
N17-06B	324	326	2	E444942	WH17173209
N17-06B	326	328	2	E444943	WH17173209
N17-06B	328	330.28	2.28	E444944	WH17173209
N17-06B	330.28	332	1.72	E444945	WH17173209
N17-06B	332	334	2	E444946	WH17173209
N17-06B	334	336	2	E444947	WH17173209

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-06B	336	338	2	E444948	WH17173209
N17-06B	338	340	2	E444949	WH17173209
N17-06B	340	341.5	1.5	E444951	WH17173209
N17-06B	341.5	343	1.5	E444952	WH17173209
N17-06B	343	344.5	1.5	E444953	WH17173209
N17-06B	344.5	346	1.5	E444954	WH17173209
N17-06B	346	347.5	1.5	E444955	WH17173209
N17-06B	347.5	349	1.5	E444956	WH17173209
N17-06B	349	351	2	E444957	WH17173209
N17-06B	351	353	2	E444958	WH17173209
N17-06B	353	355	2	E444959	WH17173209
N17-06B	355	357	2	E444961	WH17173209
N17-06B	357	359	2	E444962	WH17173209
N17-06B	359	361	2	E444963	WH17173209
N17-06B	361	363	2	E444964	WH17173209
N17-06B	363	365	2	E444965	WH17173209
N17-06B	365	367	2	E444966	WH17173209
N17-06B	367	369	2	E444967	WH17173209
N17-06B	369	371	2	E444968	WH17173209
N17-06B	371	373	2	E444969	WH17173209
N17-06B	373	375	2	E444971	WH17173209
N17-06B	375	377	2	E444972	WH17173209
N17-06B	377	379.28	2.28	E444973	WH17173209
N17-06B	379.28	381	1.72	E444974	WH17173209
N17-06B	381	383	2	E444975	WH17173209
N17-06B	383	385	2	E444976	WH17173209
N17-06B	385	387	2	E444977	WH17173209
N17-06B	387	389	2	E444978	WH17173209
N17-06B	389	391	2	E444979	WH17173209
N17-06B	391	393	2	E444981	WH17173209
N17-06B	393	395	2	E444982	WH17173209
N17-06B	395	397	2	E444983	WH17173209
N17-06B	397	399	2	E444984	WH17173209
N17-06B	399	401	2	E444985	WH17173209
N17-06B	401	403	2	E444986	WH17173209
N17-06B	403	405	2	E444987	WH17173209
N17-06B	405	407	2	E444988	WH17173209
N17-06B	407	409	2	E444989	WH17173209
N17-06B	409	411	2	E444991	WH17173209
N17-06B	411	413	2	E444992	WH17173209
N17-06B	413	415	2	E444993	WH17173209
N17-06B	415	417	2	E444994	WH17173209
N17-06B	417	419.1	2.1	E444995	WH17173209
N17-07	3.05	4.97	1.92	I027659	WH17173215
N17-07	4.97	6.89	1.92	I027661	WH17173215
N17-07	6.89	9	2.11	I027662	WH17173215
N17-07	9	10	1	I027663	WH17173215
N17-07	10	11.3	1.3	I027664	WH17173215
N17-07	11.3	13	1.7	I027665	WH17173215
N17-07	13	14.06	1.06	I027666	WH17173215
N17-07	14.06	15.75	1.69	I027667	WH17173215
N17-07	15.75	17.07	1.32	I027668	WH17173215
N17-07	17.07	19.07	2	I027669	WH17173215
N17-07	19.07	21	1.93	I027671	WH17173215
N17-07	21	23	2	I027672	WH17173215
N17-07	23	25	2	I027673	WH17173215
N17-07	25	27	2	I027674	WH17173215
N17-07	27	28.97	1.97	I027675	WH17173215
N17-07	28.97	31	2.03	I027676	WH17173215
N17-07	31	33	2	I027677	WH17173215
N17-07	33	35.05	2.05	I027678	WH17173215
N17-07	35.05	37	1.95	I027679	WH17173215
N17-07	37	39.05	2.05	I027681	WH17173215
N17-07	39.05	41.1	2.05	I027682	WH17173215
N17-07	41.1	43.15	2.05	I027683	WH17173215
N17-07	43.15	45.24	2.09	I027684	WH17173215

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-07	45.24	46.39	1.15	I027685	WH17173215
N17-07	46.39	48	1.61	I027686	WH17173215
N17-07	48	49.25	1.25	I027687	WH17173215
N17-07	49.25	50.6	1.35	I027688	WH17173215
N17-07	50.6	52	1.4	I027689	WH17173215
N17-07	52	54	2	I027691	WH17173215
N17-07	54	55.95	1.95	I027692	WH17173215
N17-07	55.95	57.91	1.96	I027693	WH17173215
N17-07	57.91	60	2.09	I027694	WH17173215
N17-07	60	62	2	I027695	WH17173215
N17-07	62	64	2	I027696	WH17173215
N17-07	64	66	2	I027697	WH17173215
N17-07	66	68	2	I027698	WH17173215
N17-07	68	70	2	I027699	WH17173215
N17-07	70	72	2	I027701	WH17173215
N17-07	72	74	2	I027702	WH17173215
N17-07	74	75.94	1.94	I027703	WH17173215
N17-07	75.94	78	2.06	I027704	WH17173215
N17-07	78	80.12	2.12	I027705	WH17173215
N17-07	80.12	82	1.88	I027706	WH17173215
N17-07	82	83.5	1.5	I027707	WH17173215
N17-07	83.5	85	1.5	I027708	WH17173215
N17-07	85	87	2	I027709	WH17173215
N17-07	87	89	2	I027711	WH17173215_revised
N17-07	89	91	2	I027712	WH17173215_revised
N17-07	91	92.96	1.96	I027713	WH17173215_revised
N17-07	92.96	94.95	1.99	I027714	WH17173215_revised
N17-07	94.95	97	2.05	I027715	WH17173215_revised
N17-07	97	99.06	2.06	I027716	WH17173215_revised
N17-07	99.06	101	1.94	I027717	WH17173215_revised
N17-07	101	103	2	I027718	WH17173215_revised
N17-07	103	105	2	I027719	WH17173215_revised
N17-07	105	107	2	I027721	WH17173215_revised
N17-07	107	109	2	I027722	WH17173215_revised
N17-07	109	111	2	I027723	WH17173215_revised
N17-07	111	113	2	I027724	WH17173215_revised
N17-07	113	115.07	2.07	I027725	WH17173215_revised
N17-07	115.07	116.5	1.43	I027726	WH17173215_revised
N17-07	116.5	117.69	1.19	I027727	WH17173215_revised
N17-07	117.69	119	1.31	I027728	WH17173215_revised
N17-07	119	121	2	I027729	WH17173215_revised
N17-07	121	123	2	I027731	WH17173215_revised
N17-07	123	125	2	I027732	WH17173215_revised
N17-07	125	126.86	1.86	I027733	WH17173215_revised
N17-07	126.86	128.08	1.22	I027734	WH17173215_revised
N17-07	128.08	129.5	1.42	I027735	WH17173215_revised
N17-07	129.5	131	1.5	I027736	WH17173215_revised
N17-07	131	132.46	1.46	I027737	WH17173215_revised
N17-07	132.46	133.9	1.44	I027738	WH17173215_revised
N17-07	133.9	135.4	1.5	I027741	WH17173215_revised
N17-07	135.4	136.6	1.2	I027742	WH17173215_revised
N17-07	136.6	138	1.4	I027743	WH17173215_revised
N17-07	138	139.51	1.51	I027745	WH17173215_revised
N17-07	139.51	141	1.49	I027746	WH17173215_revised
N17-07	141	143	2	I027747	WH17173215_revised
N17-07	143	144.9	1.9	I027748	WH17178150
N17-07	144.9	147	2.1	I027749	WH17178150
N17-07	147	149	2	I027751	WH17178150
N17-07	149	151	2	I027752	WH17178150
N17-07	151	153.06	2.06	I027753	WH17178150
N17-07	153.06	155.06	2	I027754	WH17178150
N17-07	155.06	156.5	1.44	I027755	WH17178150
N17-07	156.5	157.62	1.12	I027756	WH17178150
N17-07	157.62	159.15	1.53	I027757	WH17178150
N17-07	159.15	161	1.85	I027758	WH17178150
N17-07	161	163	2	I027759	WH17178150

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-07	163	165	2	I027761	WH17178150
N17-07	165	167.1	2.1	I027762	WH17178150
N17-07	167.1	169	1.9	I027763	WH17178150
N17-07	169	170.91	1.91	I027764	WH17178150
N17-07	170.91	173	2.09	I027765	WH17178150
N17-07	173	174.95	1.95	I027766	WH17178150
N17-07	174.95	177	2.05	I027767	WH17178150
N17-07	177	179	2	I027768	WH17178150
N17-07	179	181	2	I027769	WH17178150
N17-07	181	183	2	I027771	WH17178150
N17-07	183	185	2	I027772	WH17178150
N17-07	185	187	2	I027773	WH17178150
N17-07	187	189	2	I027774	WH17178150
N17-07	189	191	2	I027775	WH17178150
N17-07	191	193	2	I027776	WH17178150
N17-07	193	195	2	I027777	WH17178150
N17-07	195	197	2	I027778	WH17178150
N17-07	197	199	2	I027779	WH17178150
N17-07	199	201	2	I027781	WH17178150
N17-07	201	203	2	I027782	WH17178150
N17-07	203	205	2	I027783	WH17178150
N17-07	205	206.25	1.25	I027784	WH17178150
N17-07	206.25	207.5	1.25	I027785	WH17178150
N17-07	207.5	209.21	1.71	I027786	WH17178150
N17-07	209.21	210.8	1.59	I027787	WH17178150
N17-07	210.8	212	1.2	I027788	WH17178150
N17-07	212	214	2	I027789	WH17178150
N17-07	214	215.95	1.95	I027791	WH17178150
N17-07	215.95	217.25	1.3	I027792	WH17178150
N17-07	217.25	218.34	1.09	I027793	WH17178150
N17-07	218.34	220	1.66	I027794	WH17178150
N17-07	220	222	2	I027795	WH17178150
N17-07	222	224	2	I027796	WH17178150
N17-07	224	226	2	I027797	WH17178150
N17-07	226	228	2	I027798	WH17178150
N17-07	228	230	2	I027799	WH17178150
N17-07	230	232	2	I027801	WH17178150
N17-07	232	233.35	1.35	I027802	WH17178150
N17-07	233.35	234.8	1.45	I027803	WH17178150
N17-07	234.8	236.23	1.43	I027804	WH17178150
N17-07	236.23	238.1	1.87	I027805	WH17178150
N17-07	238.1	240	1.9	I027806	WH17178150
N17-07	240	241.9	1.9	I027807	WH17178150
N17-07	241.9	244	2.1	I027808	WH17178150
N17-07	244	246	2	I027809	WH17178150
N17-07	246	248	2	I027811	WH17178150
N17-07	248	250	2	I027812	WH17178150
N17-07	250	252	2	I027813	WH17178150
N17-07	252	254	2	I027814	WH17178150
N17-07	254	256	2	I027815	WH17178150
N17-07	256	257.5	1.5	I027816	WH17178150
N17-07	257.5	259.08	1.58	I027817	WH17178150
N17-08	4	6	2	I027818	WH17178150
N17-08	6	8	2	I027819	WH17178150
N17-08	8	10	2	I027821	WH17178150
N17-08	10	12	2	I027822	WH17178150
N17-08	12	14	2	I027823	WH17178150
N17-08	14	16	2	I027824	WH17178150
N17-08	16	18	2	I027825	WH17178150
N17-08	18	20	2	I027826	WH17178150
N17-08	20	22	2	I027827	WH17178150
N17-08	22	24	2	I027828	WH17178150
N17-08	24	26	2	I027829	WH17178150
N17-08	26	28	2	I027831	WH17178150
N17-08	28	30	2	I027832	WH17178150
N17-08	30	32	2	I027833	WH17178150

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-08	32	34	2	I027834	WH17180246
N17-08	34	36	2	I027835	WH17180246
N17-08	36	38	2	I027836	WH17180246
N17-08	38	40	2	I027837	WH17180246
N17-08	40	42	2	I027838	WH17180246
N17-08	42	44	2	I027839	WH17180246
N17-08	44	46	2	I027841	WH17180246
N17-08	46	47.49	1.49	I027842	WH17180246
N17-08	47.49	48.77	1.28	I027843	WH17180246
N17-08	48.77	50	1.23	I027844	WH17180246
N17-08	50	52	2	I027845	WH17180246
N17-08	52	54	2	I027846	WH17180246
N17-08	54	56	2	I027847	WH17180246
N17-08	56	57.9	1.9	I027848	WH17180246
N17-08	57.9	60	2.1	I027849	WH17180246
N17-08	60	61.9	1.9	I027851	WH17180246
N17-08	61.9	64	2.1	I027852	WH17180246
N17-08	64	66	2	I027853	WH17180246
N17-08	66	68.07	2.07	I027854	WH17180246
N17-08	68.07	70	1.93	I027855	WH17180246
N17-08	70	72	2	I027856	WH17180246
N17-08	72	73.44	1.44	I027857	WH17180246
N17-08	73.44	74.68	1.24	I027858	WH17180246
N17-08	74.68	76.05	1.37	I027859	WH17180246
N17-08	76.05	78	1.95	I027861	WH17180246
N17-08	78	79.9	1.9	I027862	WH17180246
N17-08	79.9	82	2.1	I027863	WH17180246
N17-08	82	84	2	I027864	WH17180246
N17-08	84	86	2	I027865	WH17180246
N17-08	86	88	2	I027866	WH17180246
N17-08	88	90	2	I027867	WH17180246
N17-08	90	91.4	1.4	I027868	WH17180246
N17-08	91.4	92.84	1.44	I027869	WH17180246
N17-08	92.84	94	1.16	I027871	WH17180246
N17-08	94	95.5	1.5	I027872	WH17180246
N17-08	95.5	97	1.5	I027873	WH17180246
N17-08	97	98.5	1.5	I027874	WH17180246
N17-08	98.5	100	1.5	I027875	WH17180246
N17-08	100	101.5	1.5	I027876	WH17180246
N17-08	101.5	103	1.5	I027877	WH17180246
N17-08	103	104.55	1.55	I027878	WH17180246
N17-08	104.55	106.2	1.65	I027879	WH17180246
N17-08	106.2	107.55	1.35	I027881	WH17180246
N17-08	107.55	109	1.45	I027882	WH17180246
N17-08	109	110.5	1.5	I027883	WH17180246
N17-08	110.5	112	1.5	I027884	WH17180246
N17-08	112	113.5	1.5	I027885	WH17180246
N17-08	113.5	115	1.5	I027886	WH17180246
N17-08	115	117	2	I027887	WH17180246
N17-08	117	119	2	I027888	WH17180246
N17-08	119	120.5	1.5	I027889	WH17180246
N17-08	120.5	122	1.5	I027891	WH17180246
N17-08	122	123.2	1.2	I027892	WH17180246
N17-08	123.2	125	1.8	I027893	WH17180246
N17-08	125	127	2	I027894	WH17180246
N17-08	127	129	2	I027895	WH17180246
N17-08	129	131	2	I027896	WH17180246
N17-08	131	133	2	I027897	WH17180246
N17-08	133	135	2	I027898	WH17180246
N17-08	135	137	2	I027899	WH17180246
N17-08	137	139	2	I027901	WH17180246
N17-08	139	141	2	I027902	WH17180246
N17-08	141	143	2	I027903	WH17180246
N17-08	143	145	2	I027904	WH17180246
N17-08	145	147	2	I027905	WH17180246
N17-08	147	149	2	I027906	WH17180246

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-08	149	151	2	I027907	WH17180246
N17-08	151	152.11	1.11	I027908	WH17180246
N17-08	152.11	154	1.89	I027909	WH17180246
N17-08	154	156	2	I027911	WH17180246
N17-08	156	158	2	I027912	WH17180246
N17-08	158	160	2	I027913	WH17180246
N17-08	160	162	2	I027914	WH17180246
N17-08	162	164	2	I027915	WH17180246
N17-08	164	166	2	I027916	WH17180246
N17-08	166	168	2	I027917	WH17180246
N17-08	168	170	2	I027918	WH17180246
N17-08	170	172	2	I027919	WH17180246
N17-08	172	174	2	I027921	WH17180246
N17-08	174	176	2	I027922	WH17180246
N17-08	176	178	2	I027923	WH17180246
N17-08	178	180	2	I027924	WH17180246
N17-08	180	182	2	I027925	WH17180246
N17-08	182	184	2	I027926	WH17180246
N17-08	184	185	1	I027927	WH17180246
N17-08	185	187	2	I027928	WH17180246
N17-08	187	189	2	I027929	WH17180246
N17-08	189	191	2	I027931	WH17180246
N17-08	191	192	1	I027932	WH17180246
N17-08	192	194	2	I027933	WH17180246
N17-08	194	196	2	I027934	WH17180246
N17-08	196	198	2	I027935	WH17180246
N17-08	198	199.31	1.31	I027936	WH17180246
N17-08	199.31	200	0.69	I027937	WH17180246
N17-08	200	202	2	I027938	WH17180246
N17-08	202	204	2	I027939	WH17180246
N17-08	204	206	2	I027941	WH17180246
N17-08	206	208	2	I027942	WH17180246
N17-08	208	209.5	1.5	I027943	WH17180246
N17-08	209.5	211	1.5	I027944	WH17180246
N17-08	211	212	1	I027945	WH17180246
N17-08	212	213.5	1.5	I027946	WH17180246
N17-08	213.5	215	1.5	I027947	WH17180246
N17-08	215	216.5	1.5	I027948	WH17180246
N17-08	216.5	218	1.5	I027949	WH17180246
N17-08	218	219.5	1.5	I027951	WH17180246
N17-08	219.5	221	1.5	I027952	WH17180246
N17-08	221	222.5	1.5	I027953	WH17180246
N17-08	222.5	224	1.5	I027954	WH17180246
N17-08	224	226	2	I027955	WH17180246
N17-08	226	227.5	1.5	I027956	WH17180246
N17-08	227.5	229	1.5	I027957	WH17180246
N17-08	229	230.37	1.37	I027958	WH17180246
N17-08	230.37	231.65	1.28	I027959	WH17180246
N17-08	231.65	232.87	1.22	I027961	WH17180246
N17-08	232.87	234.5	1.63	I027962	WH17180246
N17-08	234.5	236	1.5	I027963	WH17180246
N17-08	236	238	2	I027964	WH17180246
N17-08	238	240	2	I027965	WH17180246
N17-08	240	242	2	I027966	WH17180246
N17-08	242	243.5	1.5	I027967	WH17180246
N17-08	243.5	245	1.5	I027968	WH17180246
N17-08	245	246.5	1.5	I027969	WH17180246
N17-08	246.5	248	1.5	I027971	WH17180246
N17-08	248	249.5	1.5	I027972	WH17180246
N17-08	249.5	251	1.5	I027973	WH17180246
N17-08	251	253	2	I027974	WH17180246
N17-08	253	255	2	I027975	WH17180246
N17-08	255	257	2	I027976	WH17180246
N17-08	257	259	2	I027977	WH17180246
N17-08	259	261	2	I027978	WH17180246
N17-08	261	262.2	1.2	I027979	WH17180246
N17-08	262.2	263.6	1.4	I027981	WH17180246
N17-08	263.6	265.5	1.9	I027982	WH17180246
N17-08	265.5	267.5	2	I027983	WH17180246
N17-08	267.5	269	1.5	I027984	WH17180246
N17-08	269	271	2	I027985	WH17180246
N17-08	271	272.49	1.49	I027986	WH17180246
N17-09	9.52	11	1.48	E444996	WH17173209
N17-09	11	12.5	1.5	E444997	WH17173209
N17-09	12.5	13.9	1.4	E444998	WH17173209
N17-09	13.9	15.5	1.6	E444999	WH17173209
N17-09	15.5	17	1.5	E520651	WH17173219
N17-09	17	18.5	1.5	E520652	WH17173219
N17-09	18.5	20	1.5	E520653	WH17173219
N17-09	20	21.5	1.5	E520654	WH17173219
N17-09	21.5	23	1.5	E520655	WH17173219
N17-09	23	24.5	1.5	E520656	WH17173219
N17-09	24.5	26	1.5	E520657	WH17173219
N17-09	26	27.5	1.5	E520658	WH17173219
N17-09	27.5	29	1.5	E520659	WH17173219
N17-09	29	30.5	1.5	E520661	WH17173219
N17-09	30.5	32	1.5	E520662	WH17173219
N17-09	32	33.5	1.5	E520663	WH17173219
N17-09	33.5	35	1.5	E520664	WH17173219
N17-09	35	36.5	1.5	E520665	WH17173219
N17-09	36.5	38	1.5	E520666	WH17173219
N17-09	38	39.5	1.5	E520667	WH17173219
N17-09	39.5	41	1.5	E520668	WH17173219
N17-09	41	42.2	1.2	E520669	WH17173219
N17-09	42.2	44	1.8	E520671	WH17173219
N17-09	44	45.29	1.29	E520672	WH17173219
N17-09	45.29	47.31	2.02	E520673	WH17173219
N17-09	47.31	49	1.69	E520674	WH17173219
N17-09	49	50.5	1.5	E520675	WH17173219
N17-09	50.5	52	1.5	E520676	WH17173219
N17-09	52	53.5	1.5	E520677	WH17173219
N17-09	53.5	55	1.5	E520678	WH17173219
N17-09	55	56.5	1.5	E520679	WH17173219
N17-09	56.5	58	1.5	E520681	WH17173219
N17-09	58	59.5	1.5	E520682	WH17173219
N17-09	59.5	61	1.5	E520683	WH17173219
N17-09	61	62.5	1.5	E520684	WH17173219
N17-09	62.5	64.13	1.63	E520685	WH17173219
N17-09	64.13	66	1.87	E520686	WH17173219
N17-09	66	68	2	E520687	WH17173219
N17-09	68	70	2	E520688	WH17173219
N17-09	70	72	2	E520689	WH17173219
N17-09	72	74	2	E520691	WH17173219
N17-09	74	76	2	E520692	WH17173219
N17-09	76	77.89	1.89	E520693	WH17173219
N17-09	77.89	78.77	0.88	E520694	WH17173219
N17-09	78.77	80	1.23	E520695	WH17173219
N17-09	80	82	2	E520696	WH17173219
N17-09	82	84	2	E520697	WH17178150
N17-09	84	86	2	E520698	WH17178150
N17-09	86	88	2	E520699	WH17178150
N17-09	88	90.07	2.07	E520701	WH17178150
N17-09	90.07	92	1.93	E520702	WH17178150
N17-09	92	94	2	E520703	WH17178150
N17-09	94	96	2	E520704	WH17178150
N17-09	96	98	2	E520705	WH17178150
N17-09	98	100	2	E520706	WH17178150
N17-09	100	102	2	E520707	WH17178150
N17-09	102	103.5	1.5	E520708	WH17178150
N17-09	103.5	104.5	1	E520709	WH17178150
N17-09	104.5	106	1.5	E520711	WH17178150
N17-09	106	108.13	2.13	E520712	WH17178150

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-09	108.13	110	1.87	E520713	WH17178150
N17-09	110	112	2	E520714	WH17178150
N17-09	112	114	2	E520715	WH17178150
N17-09	114	116	2	E520716	WH17178150
N17-09	116	118	2	E520717	WH17178150
N17-09	118	120	2	E520718	WH17178150
N17-09	120	122	2	E520719	WH17178150
N17-09	122	124	2	E520721	WH17178150
N17-09	124	125.5	1.5	E520722	WH17178150
N17-09	125.5	126.99	1.49	E520723	WH17178150
N17-09	126.99	129	2.01	E520724	WH17178150
N17-09	129	131	2	E520725	WH17178150
N17-09	131	133	2	E520726	WH17178150
N17-09	133	135	2	E520727	WH17178150
N17-09	135	136.87	1.87	E520728	WH17178150
N17-09	136.87	139	2.13	E520729	WH17178150
N17-09	139	141	2	E520731	WH17178150
N17-09	141	143	2	E520732	WH17178150
N17-09	143	145	2	E520733	WH17178150
N17-09	145	147	2	E520734	WH17178150
N17-09	147	149	2	E520735	WH17178150
N17-09	149	151	2	E520736	WH17178150
N17-09	151	153	2	E520737	WH17178150
N17-09	153	155	2	E520738	WH17178150
N17-09	155	157	2	E520739	WH17178150
N17-09	157	159	2	E520741	WH17178150
N17-09	159	161	2	E520742	WH17178150
N17-09	161	163	2	E520743	WH17178150
N17-09	163	165	2	E520744	WH17178150
N17-09	165	167	2	E520745	WH17178150
N17-09	167	169	2	E520746	WH17178150
N17-09	169	171	2	E520747	WH17178150
N17-09	171	173	2	E520748	WH17178150
N17-09	173	175	2	E520749	WH17178150
N17-09	175	177	2	E520751	WH17178150
N17-09	177	179	2	E520752	WH17178150
N17-09	179	181	2	E520753	WH17178150
N17-09	181	183	2	E520754	WH17178150
N17-09	183	185	2	E520755	WH17178150
N17-09	185	187	2	E520756	WH17178150
N17-09	187	189	2	E520757	WH17178150
N17-09	189	191	2	E520758	WH17178150
N17-09	191	193	2	E520759	WH17178150
N17-09	193	195	2	E520761	WH17178150
N17-09	195	197	2	E520762	WH17178150
N17-09	197	198.5	1.5	E520763	WH17178150
N17-09	198.5	200	1.5	E520764	WH17178150
N17-09	200	202	2	E520765	WH17178150
N17-09	202	204	2	E520766	WH17178150
N17-09	204	206	2	E520767	WH17178150
N17-09	206	208	2	E520768	WH17178150
N17-09	208	210	2	E520769	WH17178150
N17-09	210	212	2	E520771	WH17178150
N17-09	212	214	2	E520772	WH17178150
N17-09	214	216	2	E520773	WH17178150
N17-09	216	218	2	E520774	WH17178150
N17-09	218	220	2	E520775	WH17178150
N17-09	220	222	2	E520776	WH17178150
N17-09	222	224	2	E520777	WH17178150
N17-09	224	225	1	E520778	WH17178150
N17-09	225	226.5	1.5	E520779	WH17178150
N17-09	226.5	228	1.5	E520781	WH17180243
N17-09	228	229.5	1.5	E520782	WH17180243
N17-09	229.5	231	1.5	E520783	WH17180243
N17-09	231	233	2	E520784	WH17180243
N17-09	233	235	2	E520785	WH17180243
N17-09	235	237	2	E520786	WH17180243
N17-09	237	239	2	E520787	WH17180243
N17-09	239	241	2	E520788	WH17180243
N17-09	241	243	2	E520789	WH17180243
N17-09	243	245	2	E520791	WH17180243
N17-09	245	247	2	E520792	WH17180243
N17-09	247	249	2	E520793	WH17180243
N17-09	249	251	2	E520794	WH17180243
N17-09	251	253	2	E520795	WH17180243
N17-09	253	255	2	E520796	WH17180243
N17-09	255	257	2	E520797	WH17180243
N17-09	257	259	2	E520798	WH17180243
N17-09	259	260.6	1.6	E520799	WH17180243
N17-10	2.8	4	1.2	I027987	WH17180246
N17-10	4	6	2	I027988	WH17180246
N17-10	6	8	2	I027989	WH17180246
N17-10	8	10	2	I027991	WH17180246
N17-10	10	12	2	I027992	WH17180246
N17-10	12	14	2	I027993	WH17180246
N17-10	14	16	2	I027994	WH17180246
N17-10	16	18	2	I027995	WH17180246
N17-10	18	19.81	1.81	I027996	WH17180246
N17-10	19.81	21.5	1.69	I027997	WH17180246
N17-10	21.5	23	1.5	I027998	WH17180246
N17-10	23	25	2	I027999	WH17180246
N17-10	25	27	2	I028001	WH17180246
N17-10	27	29	2	I028002	WH17180246
N17-10	29	31	2	I028003	WH17180246
N17-10	31	33	2	I028004	WH17180246
N17-10	33	35	2	I028005	WH17186569
N17-10	35	37	2	I028006	WH17186569
N17-10	37	39	2	I028007	WH17186569
N17-10	39	41.3	2.3	I028008	WH17186569
N17-10	41.3	43.4	2.1	I028009	WH17186569
N17-10	43.4	44.46	1.06	I028011	WH17186569
N17-10	44.46	46	1.54	I028012	WH17186569
N17-10	46	48	2	I028013	WH17186569
N17-10	48	50	2	I028014	WH17186569
N17-10	50	52	2	I028015	WH17186569
N17-10	52	54	2	I028016	WH17186569
N17-10	54	56	2	I028017	WH17186569
N17-10	56	58	2	I028018	WH17186569
N17-10	58	60	2	I028019	WH17186569
N17-10	60	62	2	I028021	WH17186569
N17-10	62	64	2	I028022	WH17186569
N17-10	64	66	2	I028023	WH17186569
N17-10	66	68	2	I028024	WH17186569
N17-10	68	70	2	I028025	WH17186569
N17-10	70	72	2	I028026	WH17186569
N17-10	72	73.5	1.5	I028027	WH17186569
N17-10	73.5	75	1.5	I028028	WH17186569
N17-10	75	77	2	I028029	WH17186569
N17-10	77	78.67	1.67	I028031	WH17186569
N17-10	78.67	80	1.33	I028032	WH17186569
N17-10	80	82	2	I028033	WH17186569
N17-10	82	84	2	I028034	WH17186569
N17-10	84	86	2	I028035	WH17186569
N17-10	86	88	2	I028036	WH17186569
N17-10	88	89.87	1.87	I028037	WH17186569
N17-10	89.87	92	2.13	I028038	WH17186569
N17-10	92	94	2	I028039	WH17186569
N17-10	94	96	2	I028041	WH17186569
N17-10	96	98	2	I028042	WH17186569
N17-10	98	100	2	I028043	WH17186569
N17-10	100	102	2	I028044	WH17186569
N17-10	102	104	2	I028045	WH17186569

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-10	104	106	2	I028046	WH17186569
N17-10	106	108	2	I028047	WH17186569
N17-10	108	110	2	I028048	WH17186569
N17-10	110	112	2	I028049	WH17186569
N17-10	112	114	2	I028051	WH17186569
N17-10	114	115.58	1.58	I028052	WH17186569
N17-10	115.58	117	1.42	I028053	WH17186569
N17-10	117	119	2	I028054	WH17186569
N17-10	119	121	2	I028055	WH17186569
N17-10	121	123	2	I028056	WH17186569
N17-10	123	125	2	I028057	WH17186569
N17-10	125	126	1	I028058	WH17186569
N17-10	126	127.44	1.44	I028059	WH17186569
N17-10	127.44	129	1.56	I028061	WH17186569
N17-10	129	131	2	I028062	WH17186569
N17-10	131	133	2	I028063	WH17186569
N17-10	133	135	2	I028064	WH17186569
N17-10	135	137	2	I028065	WH17186569
N17-10	137	139	2	I028066	WH17186569
N17-10	139	141	2	I028067	WH17186569
N17-10	141	143	2	I028068	WH17186569
N17-10	143	145	2	I028069	WH17186569
N17-10	145	147	2	I028071	WH17186569
N17-10	147	149	2	I028072	WH17186569
N17-10	149	151	2	I028073	WH17186569
N17-10	151	153	2	I028074	WH17186569
N17-10	153	155	2	I028075	WH17186569
N17-10	155	157	2	I028076	WH17186569
N17-10	157	159	2	I028077	WH17186569
N17-10	159	161	2	I028078	WH17186569
N17-10	161	163	2	I028079	WH17186569
N17-10	163	165	2	I028081	WH17186569
N17-10	165	167	2	I028082	WH17186569
N17-10	167	169	2	I028083	WH17186569
N17-10	169	171	2	I028084	WH17186569
N17-10	171	173	2	I028085	WH17186569
N17-10	173	175	2	I028086	WH17186569
N17-10	175	177	2	I028087	WH17186569
N17-10	177	178.33	1.33	I028088	WH17186569
N17-10	178.33	180	1.67	I028089	WH17186569
N17-10	180	181.5	1.5	I028091	WH17186569
N17-10	181.5	183	1.5	I028092	WH17186569
N17-10	183	184.5	1.5	I028093	WH17186569
N17-10	184.5	186	1.5	I028094	WH17186569
N17-10	186	187.45	1.45	I028095	WH17186569
N17-10	187.45	189.1	1.65	I028096	WH17186569
N17-10	189.1	190.5	1.4	I028097	WH17186569
N17-10	190.5	192	1.5	I028098	WH17186569
N17-10	192	193.55	1.55	I028099	WH17186569
N17-10	193.55	195	1.45	I028101	WH17186569
N17-10	195	196.5	1.5	I028102	WH17186569
N17-10	196.5	198	1.5	I028103	WH17186569
N17-10	198	199.5	1.5	I028104	WH17186569
N17-10	199.5	201	1.5	I028105	WH17186569
N17-10	201	202.5	1.5	I028106	WH17186569
N17-10	202.5	203.5	1	I028107	WH17186569
N17-10	203.5	205	1.5	I028108	WH17186569
N17-10	205	207	2	I028109	WH17186569
N17-10	207	209	2	I028111	WH17186569
N17-10	209	211	2	I028112	WH17186569
N17-10	211	213	2	I028113	WH17186569
N17-10	213	215	2	I028114	WH17186569
N17-10	215	217	2	I028115	WH17186569
N17-10	217	219	2	I028116	WH17186569
N17-10	219	221	2	I028117	WH17186569
N17-10	221	223	2	I028118	WH17186569
N17-10	223	225	2	I028119	WH17186569
N17-10	225	227	2	I028121	WH17186569
N17-10	227	229	2	I028122	WH17186569
N17-10	229	231	2	I028123	WH17186569
N17-10	231	233	2	I028124	WH17186569
N17-10	233	235	2	I028125	WH17186569
N17-10	235	237	2	I028126	WH17186569
N17-10	237	239	2	I028127	WH17186569
N17-10	239	241	2	I028128	WH17186569
N17-10	241	243	2	I028129	WH17186569
N17-10	243	245	2	I028131	WH17186569
N17-10	245	247	2	I028132	WH17186569
N17-10	247	249	2	I028133	WH17186569
N17-10	249	251	2	I028134	WH17186569
N17-10	251	252.85	1.85	I028135	WH17186569
N17-10	252.85	254.45	1.6	I028136	WH17186569
N17-10	254.45	256	1.55	I028137	WH17186569
N17-10	256	257	1	I028138	WH17186569
N17-10	257	259	2	I028139	WH17186569
N17-10	259	261	2	I028141	WH17186569
N17-10	261	262.66	1.66	I028142	WH17186569
N17-10	262.66	264	1.34	I028143	WH17186569
N17-10	264	266	2	I028144	WH17186569
N17-10	266	268	2	I028145	WH17186569
N17-10	268	269.48	1.48	I028146	WH17186569
N17-10	269.48	271	1.52	I028147	WH17186569
N17-10	271	273	2	I028148	WH17186569
N17-10	273	275	2	I028149	WH17186569
N17-10	275	277	2	I028151	WH17186569
N17-10	277	279	2	I028152	WH17186569
N17-10	279	281	2	I028153	WH17186569
N17-10	281	283	2	I028154	WH17186569
N17-10	283	285	2	I028155	WH17186569
N17-10	285	287	2	I028156	WH17186569
N17-10	287	289	2	I028157	WH17186569
N17-10	289	291	2	I028158	WH17186569
N17-10	291	293	2	I028159	WH17186569
N17-10	293	295	2	I028161	WH17186574
N17-10	295	297	2	I028162	WH17186574
N17-10	297	299	2	I028163	WH17186574
N17-10	299	300.95	1.95	I028164	WH17186574
N17-10	300.95	303	2.05	I028165	WH17186574
N17-10	303	305	2	I028166	WH17186574
N17-10	305	307	2	I028167	WH17186574
N17-10	307	309	2	I028168	WH17186574
N17-10	309	311	2	I028169	WH17186574
N17-10	311	313	2	I028171	WH17186574
N17-10	313	315	2	I028172	WH17186574
N17-10	315	317	2	I028173	WH17186574
N17-10	317	319	2	I028174	WH17186574
N17-10	319	321	2	I028175	WH17186574
N17-10	321	323	2	I028176	WH17186574
N17-10	323	325	2	I028177	WH17186574
N17-10	325	327	2	I028178	WH17186574
N17-10	327	329	2	I028179	WH17186574
N17-10	329	331	2	I028181	WH17186574
N17-10	331	333	2	I028182	WH17186574
N17-10	333	335	2	I028183	WH17186574
N17-10	335	337	2	I028184	WH17186574
N17-10	337	339	2	I028185	WH17186574
N17-10	339	341	2	I028186	WH17186574
N17-10	341	343	2	I028187	WH17186574
N17-10	343	345	2	I028188	WH17186574
N17-10	345	347	2	I028189	WH17186574
N17-10	347	349	2	I028191	WH17186574
N17-10	349	351	2	I028192	WH17186574

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-10	351	353	2	I028193	WH17186574
N17-10	353	355	2	I028194	WH17186574
N17-10	355	357	2	I028195	WH17186574
N17-10	357	359	2	I028196	WH17186574
N17-10	359	361	2	I028197	WH17186574
N17-10	361	363	2	I028198	WH17186574
N17-10	363	365	2	I028199	WH17186574
N17-10	365	367	2	I028201	WH17186574
N17-10	367	369	2	I028202	WH17186574
N17-10	369	371	2	I028203	WH17186574
N17-10	371	373	2	I028204	WH17186574
N17-10	373	375	2	I028205	WH17186574
N17-10	375	377	2	I028206	WH17186574
N17-10	377	379	2	I028207	WH17186574
N17-10	379	381	2	I028208	WH17186574
N17-10	381	383	2	I028209	WH17186574
N17-10	383	385	2	I028211	WH17186574
N17-10	385	387	2	I028212	WH17186574
N17-10	387	389	2	I028213	WH17186574
N17-10	389	391	2	I028214	WH17186574
N17-10	391	393	2	I028215	WH17186574
N17-10	393	395	2	I028216	WH17186574
N17-10	395	397	2	I028217	WH17186574
N17-10	397	399	2	I028218	WH17186574
N17-10	399	401	2	I028219	WH17186574
N17-10	401	403	2	I028221	WH17186574
N17-10	403	405	2	I028222	WH17186574
N17-10	405	407	2	I028223	WH17186574
N17-10	407	409	2	I028224	WH17186574
N17-10	409	411	2	I028225	WH17186574
N17-10	411	413	2	I028226	WH17186574
N17-10	413	415	2	I028227	WH17186574
N17-10	415	417	2	I028228	WH17186574
N17-10	417	419	2	I028229	WH17186574
N17-10	419	421	2	I028231	WH17186574
N17-10	421	423	2	I028232	WH17186574
N17-10	423	425	2	I028233	WH17186574
N17-10	425	427	2	I028234	WH17186574
N17-10	427	429	2	I028235	WH17186574
N17-10	429	431	2	I028236	WH17186574
N17-10	431	433	2	I028237	WH17186574
N17-10	433	435	2	I028238	WH17186574
N17-10	435	437	2	I028239	WH17186574
N17-10	437	439	2	I028241	WH17186574
N17-10	439	441	2	I028242	WH17186574
N17-10	441	443	2	I028243	WH17186574
N17-10	443	444	1	I028244	WH17186574
N17-10	444	445.52	1.52	I028245	WH17186574
N17-10	445.52	447	1.48	I028246	WH17186574
N17-10	447	449	2	I028247	WH17186574
N17-10	449	451	2	I028248	WH17186574
N17-10	451	453	2	I028249	WH17186574
N17-10	453	455	2	I028251	WH17186574
N17-10	455	457	2	I028252	WH17186574
N17-10	457	459	2	I028253	WH17186574
N17-10	459	461	2	I028254	WH17186574
N17-10	461	463	2	I028255	WH17186574
N17-10	463	465	2	I028256	WH17186574
N17-10	465	467	2	I028257	WH17186574
N17-10	467	469	2	I028258	WH17186574
N17-10	469	471	2	I028259	WH17186574
N17-10	471	473	2	I028261	WH17186574
N17-10	473	474.53	1.53	I028262	WH17186574
N17-11	9.6	11	1.4	E520801	WH17180243
N17-11	11	13	2	E520802	WH17180243
N17-11	13	15	2	E520803	WH17180243
N17-11	15	16.47	1.47	E520804	WH17180243
N17-11	16.47	18	1.53	E520805	WH17180243
N17-11	18	20	2	E520806	WH17180243
N17-11	20	22	2	E520807	WH17180243
N17-11	22	24	2	E520808	WH17180243
N17-11	24	26	2	E520809	WH17180243
N17-11	26	28	2	E520811	WH17180243
N17-11	28	30	2	E520812	WH17180243
N17-11	30	32	2	E520813	WH17180243
N17-11	32	34	2	E520814	WH17180243
N17-11	34	36	2	E520815	WH17180243
N17-11	36	38	2	E520816	WH17180243
N17-11	38	40	2	E520817	WH17180243
N17-11	40	42	2	E520818	WH17180243
N17-11	42	44	2	E520819	WH17180243
N17-11	44	45.38	1.38	E520821	WH17180243
N17-11	45.38	47	1.62	E520822	WH17180243
N17-11	47	49	2	E520823	WH17180243
N17-11	49	51	2	E520824	WH17180243
N17-11	51	53	2	E520825	WH17180243
N17-11	53	55	2	E520826	WH17180243
N17-11	55	57	2	E520827	WH17180243
N17-11	57	59	2	E520828	WH17180243
N17-11	59	61	2	E520829	WH17180243
N17-11	61	63	2	E520831	WH17180243
N17-11	63	65	2	E520832	WH17180243
N17-11	65	67	2	E520833	WH17180243
N17-11	67	69	2	E520834	WH17180243
N17-11	69	71	2	E520835	WH17180243
N17-11	71	73	2	E520836	WH17180243
N17-11	73	74.68	1.68	E520837	WH17180243
N17-11	74.68	76	1.32	E520838	WH17180243
N17-11	76	78	2	E520839	WH17180243
N17-11	78	80	2	E520841	WH17180243
N17-11	80	82	2	E520842	WH17180243
N17-11	82	83.96	1.96	E520843	WH17180243
N17-11	83.96	86	2.04	E520844	WH17180243
N17-11	86	88	2	E520845	WH17180243
N17-11	88	90	2	E520846	WH17180243
N17-11	90	92	2	E520847	WH17180243
N17-11	92	94	2	E520848	WH17180243
N17-11	94	96	2	E520849	WH17180243
N17-11	96	98	2	E520851	WH17180243
N17-11	98	99.5	1.5	E520852	WH17180243
N17-11	99.5	100.84	1.34	E520853	WH17180243
N17-11	100.84	102	1.16	E520854	WH17180243
N17-11	102	104	2	E520855	WH17180243
N17-11	104	106	2	E520856	WH17180243
N17-11	106	108	2	E520857	WH17180243
N17-11	108	109.8	1.8	E520858	WH17180243
N17-11	109.8	111	1.2	E520859	WH17180243
N17-11	111	113	2	E520861	WH17180243
N17-11	113	114.85	1.85	E520862	WH17180243
N17-11	114.85	117	2.15	E520863	WH17180243
N17-11	117	119	2	E520864	WH17180243
N17-11	119	121	2	E520865	WH17180243
N17-11	121	123	2	E520866	WH17180243
N17-11	123	125	2	E520867	WH17180243
N17-11	125	127	2	E520868	WH17180243
N17-11	127	129	2	E520869	WH17180243
N17-11	129	131	2	E520871	WH17180243
N17-11	131	133	2	E520872	WH17180243
N17-11	133	134.61	1.61	E520873	WH17180243
N17-11	134.61	136	1.39	E520874	WH17180243
N17-11	136	138	2	E520875	WH17180243
N17-11	138	140	2	E520876	WH17180243

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-11	140	142	2	E520877	WH17180243
N17-11	142	143.68	1.68	E520878	WH17180243
N17-11	143.68	145	1.32	E520879	WH17180243
N17-11	145	147	2	E520881	WH17180243
N17-11	147	149	2	E520882	WH17180243
N17-11	149	151	2	E520883	WH17180243
N17-11	151	153	2	E520884	WH17180243
N17-11	153	155	2	E520885	WH17180243
N17-11	155	157	2	E520886	WH17180243
N17-11	157	159	2	E520887	WH17180243
N17-11	159	161	2	E520888	WH17180243
N17-11	161	162.95	1.95	E520889	WH17180243
N17-11	162.95	165	2.05	E520891	WH17180243
N17-11	165	167	2	E520892	WH17180243
N17-11	167	169	2	E520893	WH17180243
N17-11	169	171	2	E520894	WH17180243
N17-11	171	173	2	E520895	WH17180243
N17-11	173	175	2	E520896	WH17180243
N17-11	175	177	2	E520897	WH17180243
N17-11	177	179	2	E520898	WH17180243
N17-11	179	181	2	E520899	WH17180243
N17-11	181	183	2	E520901	WH17180243
N17-11	183	185	2	E520902	WH17180243
N17-11	185	187	2	E520903	WH17180243
N17-11	187	189	2	E520904	WH17180243
N17-11	189	191	2	E520905	WH17180243
N17-11	191	193	2	E520906	WH17180243
N17-11	193	194.56	1.56	E520907	WH17180243
N17-11	194.56	196	1.44	E520908	WH17180243
N17-11	196	198	2	E520909	WH17180243
N17-11	198	199.5	1.5	E520911	WH17180243
N17-11	199.5	201	1.5	E520912	WH17180243
N17-11	201	202.89	1.89	E520913	WH17180243
N17-11	202.89	205	2.11	E520914	WH17180243
N17-11	205	206.18	1.18	E520915	WH17180243
N17-11	206.18	208	1.82	E520916	WH17180243
N17-11	208	210	2	E520917	WH17180243
N17-11	210	212	2	E520918	WH17180243
N17-11	212	214	2	E520919	WH17180243
N17-11	214	216	2	E520921	WH17180243
N17-11	216	218	2	E520922	WH17180243
N17-11	218	219.19	1.19	E520923	WH17180243
N17-11	219.19	221	1.81	E520924	WH17180243
N17-11	221	223	2	E520925	WH17180243
N17-11	223	225	2	E520926	WH17180243
N17-11	225	227	2	E520927	WH17180243
N17-11	227	229	2	E520928	WH17180243
N17-11	229	231	2	E520929	WH17180243
N17-11	231	233	2	E520931	WH17180243
N17-11	233	235	2	E520932	WH17180243
N17-11	235	237	2	E520933	WH17180243
N17-11	237	239	2	E520934	WH17180243
N17-11	239	241	2	E520935	WH17180243
N17-11	241	243	2	E520936	WH17180243
N17-11	243	245	2	E520937	WH17180243
N17-11	245	247	2	E520938	WH17180243
N17-11	247	249	2	E520939	WH17180243
N17-11	249	251	2	E520941	WH17180243
N17-11	251	253	2	E520942	WH17180243
N17-11	253	255	2	E520943	WH17180243
N17-11	255	257	2	E520944	WH17180243
N17-11	257	259	2	E520945	WH17180243
N17-11	259	261	2	E520946	WH17180243
N17-11	261	263	2	E520947	WH17180243
N17-11	263	265	2	E520948	WH17180243
N17-11	265	267	2	E520949	WH17180243

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-11	267	268.5	1.5	E520951	WH17180243
N17-11	268.5	269.75	1.25	E520952	WH17180243
N17-12	10.67	12	1.33	E520953	WH17180243
N17-12	12	14	2	E520954	WH17180243
N17-12	14	16	2	E520955	WH17180243
N17-12	16	18	2	E520956	WH17180243
N17-12	18	20	2	E520957	WH17180243
N17-12	20	23	3	E520958	WH17180243
N17-12	23	25	2	E520959	WH17180243
N17-12	25	27	2	E520961	WH17180243
N17-12	27	29	2	E520962	WH17180243
N17-12	29	31	2	E520963	WH17180243
N17-12	31	33	2	E520964	WH17180246
N17-12	33	35	2	E520965	WH17180246
N17-12	35	37	2	E520966	WH17180246
N17-12	37	39	2	E520967	WH17180246
N17-12	39	41	2	E520968	WH17180246
N17-12	41	43	2	E520969	WH17180246
N17-12	43	45	2	E520971	WH17180246
N17-12	45	47	2	E520972	WH17180246
N17-12	47	49	2	E520973	WH17180246
N17-12	49	51	2	E520974	WH17180246
N17-12	51	53	2	E520975	WH17180246
N17-12	53	55	2	E520976	WH17186566
N17-12	55	57.63	2.63	E520977	WH17186566
N17-12	57.63	59	1.37	E520978	WH17186566
N17-12	59	61	2	E520979	WH17186566
N17-12	61	63	2	E520981	WH17186566
N17-12	63	65	2	E520982	WH17186566
N17-12	65	67	2	E520983	WH17186566
N17-12	67	69	2	E520984	WH17186566
N17-12	69	71	2	E520985	WH17186566
N17-12	71	73	2	E520986	WH17186566
N17-12	73	74	1	E520987	WH17186566
N17-12	74	76	2	E520988	WH17186566
N17-12	76	78	2	E520989	WH17186566
N17-12	78	80	2	E520991	WH17186566
N17-12	80	81.5	1.5	E520992	WH17186566
N17-12	81.5	83	1.5	E520993	WH17186566
N17-12	83	84	1	E520994	WH17186566
N17-12	84	85.5	1.5	E520995	WH17186566
N17-12	85.5	87	1.5	E520996	WH17186566
N17-12	87	89	2	E520997	WH17186566
N17-12	89	90.73	1.73	E520998	WH17186566
N17-12	90.73	92	1.27	E520999	WH17186566
N17-12	92	94	2	E521251	WH17186566
N17-12	94	95.18	1.18	E521252	WH17186566
N17-12	95.18	97	1.82	E521253	WH17186566
N17-12	97	99	2	E521254	WH17186566
N17-12	99	100.5	1.5	E521255	WH17186566
N17-12	100.5	102	1.5	E521256	WH17186566
N17-12	102	103.5	1.5	E521257	WH17186566
N17-12	103.5	105	1.5	E521258	WH17186566
N17-12	105	106.5	1.5	E521259	WH17186566
N17-12	106.5	108	1.5	E521261	WH17186566
N17-12	108	109.5	1.5	E521262	WH17186566
N17-12	109.5	111	1.5	E521263	WH17186566
N17-12	111	112.1	1.1	E521264	WH17186566
N17-12	112.1	114.35	2.25	E521265	WH17186566
N17-12	114.35	116.73	2.38	E521266	WH17186566
N17-12	116.73	119	2.27	E521267	WH17186566
N17-12	119	121	2	E521268	WH17186566
N17-12	121	123.2	2.2	E521269	WH17186566
N17-12	123.2	125	1.8	E521271	WH17186566
N17-12	125	127	2	E521272	WH17186566
N17-12	127	129	2	E521273	WH17186566

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-12	129	131	2	E521274	WH17186566
N17-12	131	133	2	E521275	WH17186566
N17-12	133	134.7	1.7	E521276	WH17186566
N17-12	134.7	136.43	1.73	E521277	WH17186566
N17-12	136.43	138	1.57	E521278	WH17186566
N17-12	138	140	2	E521279	WH17186566
N17-12	140	141.62	1.62	E521281	WH17186566
N17-12	141.62	143	1.38	E521282	WH17186566
N17-12	143	145	2	E521283	WH17186566
N17-12	145	147	2	E521284	WH17186566
N17-12	147	149	2	E521285	WH17186566
N17-12	149	150.7	1.7	E521286	WH17186566
N17-12	150.7	152	1.3	E521287	WH17186566
N17-12	152	154	2	E521288	WH17186566
N17-12	154	156	2	E521289	WH17186566
N17-12	156	158	2	E521291	WH17186566
N17-12	158	160	2	E521292	WH17186566
N17-12	160	162	2	E521293	WH17186566
N17-12	162	164	2	E521294	WH17186566
N17-12	164	166	2	E521295	WH17186566
N17-12	166	168	2	E521296	WH17186566
N17-12	168	170	2	E521297	WH17186566
N17-12	170	172	2	E521298	WH17186566
N17-12	172	174	2	E521299	WH17186566
N17-12	174	175.5	1.5	E521301	WH17186566
N17-12	175.5	177.02	1.52	E521302	WH17186566
N17-12	177.02	178.5	1.48	E521303	WH17186566
N17-12	178.5	179.95	1.45	E521304	WH17186566
N17-12	179.95	182	2.05	E521305	WH17186566
N17-12	182	184	2	E521306	WH17186566
N17-12	184	186	2	E521307	WH17186566
N17-12	186	188	2	E521308	WH17186566
N17-12	188	190	2	E521309	WH17186566
N17-12	190	192	2	E521311	WH17186566
N17-12	192	194	2	E521312	WH17186566
N17-12	194	196	2	E521313	WH17186566
N17-12	196	198	2	E521314	WH17186566
N17-12	198	200	2	E521315	WH17186566
N17-12	200	202	2	E521316	WH17186566
N17-12	202	204	2	E521317	WH17186566
N17-12	204	206	2	E521318	WH17186566
N17-12	206	208	2	E521319	WH17186566
N17-12	208	210	2	E521321	WH17186566
N17-12	210	212	2	E521322	WH17186566
N17-12	212	214	2	E521323	WH17186566
N17-12	214	216	2	E521324	WH17186566
N17-12	216	218	2	E521325	WH17186566
N17-12	218	220	2	E521326	WH17186566
N17-12	220	222	2	E521327	WH17186566
N17-12	222	224	2	E521328	WH17186566
N17-12	224	226	2	E521329	WH17186566
N17-12	226	228	2	E521331	WH17186566
N17-12	228	230	2	E521332	WH17186566
N17-12	230	232	2	E521333	WH17186566
N17-12	232	234	2	E521334	WH17186566
N17-12	234	236	2	E521335	WH17186566
N17-12	236	238	2	E521336	WH17186566
N17-12	238	240	2	E521337	WH17186566
N17-12	240	242	2	E521338	WH17186566
N17-12	242	244	2	E521339	WH17186566
N17-12	244	246	2	E521341	WH17186566
N17-12	246	248	2	E521342	WH17186566
N17-12	248	250	2	E521343	WH17186566
N17-12	250	252	2	E521344	WH17186566
N17-12	252	254	2	E521345	WH17186566
N17-12	254	256	2	E521346	WH17186566

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-12	256	258	2	E521347	WH17186566
N17-12	258	259.5	1.5	E521348	WH17186566
N17-12	259.5	260.6	1.1	E521349	WH17186566
N17-13	4.57	6	1.43	E521351	WH17186566
N17-13	6	8	2	E521352	WH17186566
N17-13	8	10	2	E521353	WH17186566
N17-13	10	12	2	E521354	WH17186566
N17-13	12	14	2	E521355	WH17186566
N17-13	14	16	2	E521356	WH17186566
N17-13	16	18	2	E521357	WH17186566
N17-13	18	20	2	E521358	WH17186566
N17-13	20	22	2	E521359	WH17186566
N17-13	22	24	2	E521361	WH17186566
N17-13	24	26	2	E521362	WH17186566
N17-13	26	28	2	E521363	WH17186566
N17-13	28	30	2	E521364	WH17186566
N17-13	30	32	2	E521365	WH17186566
N17-13	32	33.5	1.5	E521366	WH17186566
N17-13	33.5	34.74	1.24	E521367	WH17186566
N17-13	34.74	36	1.26	E521368	WH17186566
N17-13	36	38	2	E521369	WH17186566
N17-13	38	40	2	E521371	WH17186566
N17-13	40	42	2	E521372	WH17186566
N17-13	42	44	2	E521373	WH17186566
N17-13	44	46	2	E521374	WH17186566
N17-13	46	47.5	1.5	E521375	WH17186566
N17-13	47.5	49	1.5	E521376	WH17186566
N17-13	49	50.29	1.29	E521377	WH17186566
N17-13	50.29	52	1.71	E521378	WH17186566
N17-13	52	54	2	E521379	WH17186566
N17-13	54	56	2	E521381	WH17186566
N17-13	56	58	2	E521382	WH17186566
N17-13	58	60	2	E521383	WH17186566
N17-13	60	62	2	E521384	WH17186566
N17-13	62	64	2	E521385	WH17186566
N17-13	64	66	2	E521386	WH17186566
N17-13	66	68	2	E521387	WH17186566
N17-13	68	70	2	E521388	WH17186566
N17-13	70	72	2	E521389	WH17186566
N17-13	72	74	2	E521391	WH17186566
N17-13	74	76	2	E521392	WH17186566
N17-13	76	78	2	E521393	WH17186566
N17-13	78	80	2	E521394	WH17186566
N17-13	80	82	2	E521395	WH17186566
N17-13	82	84	2	E521396	WH17186566
N17-13	84	86	2	E521397	WH17186566
N17-13	86	88.13	2.13	E521398	WH17186566
N17-13	88.13	90	1.87	E521399	WH17186566
N17-13	90	92	2	E521401	WH17186566
N17-13	92	94	2	E521402	WH17186566
N17-13	94	96	2	E521403	WH17186566
N17-13	96	98	2	E521404	WH17186566
N17-13	98	100	2	E521405	WH17186566
N17-13	100	102	2	E521406	WH17186566
N17-13	102	103.46	1.46	E521407	WH17186566
N17-13	103.46	105	1.54	E521408	WH17186566
N17-13	105	107	2	E521409	WH17186566
N17-13	107	109	2	E521411	WH17186566
N17-13	109	111	2	E521412	WH17186566
N17-13	111	113	2	E521413	WH17186566
N17-13	113	115	2	E521414	WH17186566
N17-13	115	117	2	E521415	WH17186566
N17-13	117	119	2	E521416	WH17186566
N17-13	119	121	2	E521417	WH17186566
N17-13	121	123	2	E521418	WH17186566
N17-13	123	125	2	E521419	WH17186566

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-13	125	127	2	E521421	WH17186566
N17-13	127	129	2	E521422	WH17186566
N17-13	129	130.65	1.65	E521423	WH17186566
N17-13	130.65	132	1.35	E521424	WH17186566
N17-13	132	134	2	E521425	WH17186566
N17-13	134	136	2	E521426	WH17186566
N17-13	136	138	2	E521427	WH17186566
N17-13	138	140	2	E521428	WH17186566
N17-13	140	142	2	E521429	WH17186566
N17-13	142	144.18	2.18	E521431	WH17186566
N17-13	144.18	146	1.82	E521432	WH17186566
N17-13	146	148	2	E521433	WH17186566
N17-13	148	150	2	E521434	WH17186566
N17-13	150	152	2	E521435	WH17186566
N17-13	152	154	2	E521436	WH17186566
N17-13	154	156	2	E521437	WH17186566
N17-13	156	157.5	1.5	E521438	WH17186566
N17-13	157.5	158.87	1.37	E521439	WH17186566
N17-13	158.87	160	1.13	E521441	WH17186566
N17-13	160	162	2	E521442	WH17186566
N17-13	162	164	2	E521443	WH17186566
N17-13	164	166	2	E521444	WH17186566
N17-13	166	168	2	E521445	WH17186566
N17-13	168	170	2	E521446	WH17186566
N17-13	170	172	2	E521447	WH17186566
N17-13	172	174	2	E521448	WH17186566
N17-13	174	176	2	E521449	WH17186566
N17-13	176	178	2	E521451	WH17186569
N17-13	178	180	2	E521452	WH17186569
N17-13	180	182	2	E521453	WH17186569
N17-13	182	184	2	E521454	WH17186569
N17-13	184	185.1	1.1	E521455	WH17186569
N17-13	185.1	186	0.9	E521456	WH17186569
N17-13	186	187	1	E521457	WH17186569
N17-13	187	189	2	E521458	WH17186569
N17-13	189	191	2	E521459	WH17186569
N17-13	191	193	2	E521461	WH17186569
N17-13	193	195	2	E521462	WH17186569
N17-13	195	197	2	E521463	WH17186569
N17-13	197	199	2	E521464	WH17186569
N17-13	199	201	2	E521465	WH17186569
N17-13	201	202.59	1.59	E521466	WH17186569
N17-13	202.59	204	1.41	E521467	WH17186569
N17-13	204	205.5	1.5	E521468	WH17186569
N17-13	205.5	207	1.5	E521469	WH17186569
N17-13	207	208.5	1.5	E521471	WH17186569
N17-13	208.5	210	1.5	E521472	WH17186569
N17-13	210	211.5	1.5	E521473	WH17186569
N17-13	211.5	213	1.5	E521474	WH17186569
N17-13	213	214.5	1.5	E521475	WH17186569
N17-13	214.5	216	1.5	E521476	WH17186569
N17-13	216	217.5	1.5	E521477	WH17186569
N17-13	217.5	219	1.5	E521478	WH17186569
N17-13	219	220.5	1.5	E521479	WH17186569
N17-13	220.5	222	1.5	E521481	WH17186569
N17-13	222	223.5	1.5	E521482	WH17186569
N17-13	223.5	225	1.5	E521483	WH17186569
N17-13	225	226.5	1.5	E521484	WH17186569
N17-13	226.5	228	1.5	E521485	WH17186569
N17-13	228	229.5	1.5	E521486	WH17186569
N17-13	229.5	231	1.5	E521487	WH17186569
N17-13	231	232.5	1.5	E521488	WH17186569
N17-13	232.5	234	1.5	E521489	WH17186569
N17-13	234	235.5	1.5	E521491	WH17186569
N17-13	235.5	236.7	1.2	E521492	WH17186569
N17-13	236.7	237.7	1	E521493	WH17186569
N17-13	237.7	238.7	1	E521494	WH17186569
N17-13	238.7	239.76	1.06	E521495	WH17186569
N17-13	239.76	241	1.24	E521496	WH17186569
N17-13	241	242.5	1.5	E521497	WH17186569
N17-13	242.5	244	1.5	E521498	WH17186569
N17-13	244	245.34	1.34	E521499	WH17186569
N17-13	245.34	247	1.66	W639601	WH17186574
N17-13	247	249	2	W639602	WH17186574
N17-13	249	251	2	W639603	WH17186574
N17-13	251	253	2	W639604	WH17186574
N17-13	253	255	2	W639605	WH17186574
N17-13	255	257	2	W639606	WH17186574
N17-13	257	259	2	W639607	WH17186574
N17-13	259	261	2	W639608	WH17186574
N17-13	261	263	2	W639609	WH17186574
N17-13	263	265	2	W639611	WH17186574
N17-13	265	267	2	W639612	WH17186574
N17-13	267	269	2	W639613	WH17186574
N17-13	269	271	2	W639614	WH17186574
N17-13	271	273	2	W639615	WH17186574
N17-13	273	274.5	1.5	W639616	WH17186574
N17-13	274.5	275.84	1.34	W639617	WH17186574
N17-14	3.95	6	2.05	I028263	WH17186574
N17-14	6	8	2	I028264	WH17186574
N17-14	8	10	2	I028265	WH17186574
N17-14	10	12	2	I028266	WH17186574
N17-14	12	13.72	1.72	I028267	WH17186574
N17-14	13.72	15	1.28	I028268	WH17186574
N17-14	15	17	2	I028269	WH17186574
N17-14	17	19	2	I028271	WH17186574
N17-14	19	20.17	1.17	I028272	WH17186574
N17-14	20.17	21.17	1	I028273	WH17186574
N17-14	21.17	22.68	1.51	I028274	WH17186574
N17-14	22.68	24.5	1.82	I028275	WH17186574
N17-14	24.5	26	1.5	I028276	WH17186574
N17-14	26	28	2	I028277	WH17186574
N17-14	28	30	2	I028278	WH17186574
N17-14	30	32	2	I028279	WH17186574
N17-14	32	34	2	I028281	WH17186574
N17-14	34	36	2	I028282	WH17186574
N17-14	36	38	2	I028283	WH17191969
N17-14	38	40	2	I028284	WH17191969
N17-14	40	42	2	I028285	WH17191969
N17-14	42	44	2	I028286	WH17191969
N17-14	44	46	2	I028287	WH17191969
N17-14	46	48	2	I028288	WH17191969
N17-14	48	50	2	I028289	WH17191969
N17-14	50	52	2	I028291	WH17191969
N17-14	52	54	2	I028292	WH17191969
N17-14	54	56	2	I028293	WH17191969
N17-14	56	58	2	I028294	WH17191969
N17-14	58	60	2	I028295	WH17191969
N17-14	60	62	2	I028296	WH17191969
N17-14	62	64	2	I028297	WH17191969
N17-14	64	66	2	I028298	WH17191969
N17-14	66	68	2	I028299	WH17191969
N17-14	68	70	2	I028301	WH17191969
N17-14	70	72	2	I028302	WH17191969
N17-14	72	74	2	I028303	WH17191969
N17-14	74	76	2	I028304	WH17191969
N17-14	76	78	2	I028305	WH17191969
N17-14	78	80	2	I028306	WH17191969
N17-14	80	82	2	I028307	WH17191969
N17-14	82	84	2	I028308	WH17191969
N17-14	84	86	2	I028309	WH17191969
N17-14	86	88	2	I028311	WH17191969

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-14	88	90	2	I028312	WH17191969
N17-14	90	92	2	I028313	WH17191969
N17-14	92	94	2	I028314	WH17191969
N17-14	94	96	2	I028315	WH17191969
N17-14	96	98	2	I028316	WH17191969
N17-14	98	100	2	I028317	WH17191969
N17-14	100	101.8	1.8	I028318	WH17191969
N17-14	101.8	103	1.2	I028319	WH17191969
N17-14	103	105	2	I028321	WH17191969
N17-14	105	107	2	I028322	WH17191969
N17-14	107	109	2	I028323	WH17191969
N17-14	109	111	2	I028324	WH17191969
N17-14	111	113	2	I028325	WH17191969
N17-14	113	115	2	I028326	WH17191969
N17-14	115	117	2	I028327	WH17191969
N17-14	117	119	2	I028328	WH17191969
N17-14	119	121	2	I028329	WH17191969
N17-14	121	123	2	I028331	WH17191969_revised
N17-14	123	125	2	I028332	WH17191969_revised
N17-14	125	127	2	I028333	WH17191969_revised
N17-14	127	129	2	I028334	WH17191969_revised
N17-14	129	131	2	I028335	WH17191969_revised
N17-14	131	133	2	I028336	WH17191969_revised
N17-14	133	135	2	I028337	WH17191969_revised
N17-14	135	137	2	I028338	WH17191969_revised
N17-14	137	139	2	I028339	WH17191969_revised
N17-14	139	141	2	I028341	WH17191969_revised
N17-14	141	143	2	I028342	WH17191969_revised
N17-14	143	145	2	I028343	WH17191969_revised
N17-14	145	147	2	I028344	WH17191969_revised
N17-14	147	149	2	I028345	WH17191969_revised
N17-14	149	150.25	1.25	I028346	WH17191969_revised
N17-14	150.25	151.5	1.25	I028347	WH17191969_revised
N17-14	151.5	153.06	1.56	I028348	WH17191969_revised
N17-14	153.06	155	1.94	I028349	WH17191969_revised
N17-14	155	157	2	I028351	WH17191969_revised
N17-14	157	159	2	I028352	WH17191969
N17-14	159	161	2	I028353	WH17191969
N17-14	161	163	2	I028354	WH17191969
N17-14	163	165	2	I028355	WH17191969
N17-14	165	167	2	I028356	WH17191969
N17-14	167	169	2	I028357	WH17191969
N17-14	169	171	2	I028358	WH17191969
N17-14	171	173	2	I028359	WH17191969
N17-14	173	175	2	I028361	WH17191969
N17-14	175	177	2	I028362	WH17191969
N17-14	177	179	2	I028363	WH17191969
N17-14	179	181	2	I028364	WH17191969
N17-14	181	183	2	I028365	WH17191969
N17-14	183	185	2	I028366	WH17191969
N17-14	185	187	2	I028367	WH17191969
N17-14	187	189	2	I028368	WH17191969
N17-14	189	191	2	I028369	WH17191969
N17-14	191	193	2	I028371	WH17191969
N17-14	193	195	2	I028372	WH17191969
N17-14	195	197	2	I028373	WH17191969
N17-14	197	199	2	I028374	WH17191969
N17-14	199	201	2	I028375	WH17191969
N17-14	201	203	2	I028376	WH17191969
N17-14	203	205	2	I028377	WH17191969
N17-14	205	207	2	I028378	WH17191969
N17-14	207	209	2	I028379	WH17191969
N17-14	209	211	2	I028381	WH17191969
N17-14	211	213	2	I028382	WH17191969
N17-14	213	215	2	I028383	WH17191969
N17-14	215	217	2	I028384	WH17191969

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-14	217	219	2	I028385	WH17191969
N17-14	219	221	2	I028386	WH17191969
N17-14	221	223	2	I028387	WH17191969
N17-14	223	225	2	I028388	WH17191969
N17-14	225	227	2	I028389	WH17191969
N17-14	227	228.9	1.9	I028391	WH17191969
N17-14	228.9	231	2.1	I028392	WH17191969
N17-14	231	233	2	I028393	WH17191969
N17-14	233	235	2	I028394	WH17191969
N17-14	235	237	2	I028395	WH17191969
N17-14	237	239	2	I028396	WH17191969
N17-14	239	241	2	I028397	WH17191969
N17-14	241	243	2	I028398	WH17191969
N17-14	243	245	2	I028399	WH17191969
N17-14	245	247	2	I028401	WH17191969_revised
N17-14	247	249	2	I028402	WH17191969_revised
N17-14	249	251	2	I028403	WH17191969_revised
N17-14	251	253	2	I028404	WH17191969_revised
N17-14	253	255	2	I028405	WH17191969_revised
N17-14	255	257	2	I028406	WH17191969_revised
N17-14	257	259	2	I028407	WH17191969_revised
N17-14	259	261	2	I028408	WH17191969_revised
N17-14	261	263	2	I028409	WH17191969_revised
N17-14	263	265.2	2.2	I028411	WH17191969_revised
N17-14	265.2	267	1.8	I028412	WH17191969_revised
N17-14	267	269	2	I028413	WH17191969_revised
N17-14	269	270	1	I028414	WH17191969_revised
N17-14	270	271	1	I028415	WH17191969_revised
N17-14	271	273	2	I028416	WH17191969_revised
N17-14	273	274.35	1.35	I028417	WH17191969_revised
N17-14	274.35	275.5	1.15	I028418	WH17191969_revised
N17-14	275.5	277	1.5	I028419	WH17191969_revised
N17-14	277	279	2	I028421	WH17191969_revised
N17-14	279	281	2	I028422	WH17191969_revised
N17-14	281	283	2	I028423	WH17191969_revised
N17-14	283	285	2	I028424	WH17191969_revised
N17-14	285	287	2	I028425	WH17191969_revised
N17-14	287	289	2	I028426	WH17191969_revised
N17-14	289	291	2	I028427	WH17191969_revised
N17-14	291	293	2	I028428	WH17191969_revised
N17-14	293	295	2	I028429	WH17191969_revised
N17-14	295	297	2	I028431	WH17191969_revised
N17-14	297	299	2	I028432	WH17191969_revised
N17-14	299	301	2	I028433	WH17191969_revised
N17-14	301	303	2	I028434	WH17191969_revised
N17-14	303	305	2	I028435	WH17191969_revised
N17-14	305	307	2	I028436	WH17191969_revised
N17-14	307	309	2	I028437	WH17191969_revised
N17-14	309	311	2	I028438	WH17191969_revised
N17-14	311	313	2	I028439	WH17191969_revised
N17-14	313	315	2	I028441	WH17191969_revised
N17-14	315	317	2	I028442	WH17191969_revised
N17-14	317	319	2	I028443	WH17191969_revised
N17-14	319	321	2	I028444	WH17191969_revised
N17-14	321	323	2	I028445	WH17191969_revised
N17-14	323	324.2	1.2	I028446	WH17191969_revised
N17-14	324.2	326	1.8	I028447	WH17191969_revised
N17-14	326	328	2	I028448	WH17191969_revised
N17-14	328	330	2	I028449	WH17191969_revised
N17-14	330	331.5	1.5	I028451	WH17191969_revised
N17-14	331.5	332.5	1	I028452	WH17191969_revised
N17-14	332.5	333.5	1	I028453	WH17191969_revised
N17-14	333.5	334.5	1	I028454	WH17191969_revised
N17-14	334.5	336	1.5	I028455	WH17191969_revised
N17-14	336	337.5	1.5	I028456	WH17191969_revised
N17-14	337.5	339	1.5	I028457	WH17191969_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-14	339	340.5	1.5	I028458	WH17191969_revised
N17-14	340.5	342	1.5	I028459	WH17191969_revised
N17-14	342	343.5	1.5	I028461	WH17191969
N17-14	343.5	345	1.5	I028462	WH17191969
N17-14	345	347	2	I028463	WH17191969
N17-14	347	349	2	I028464	WH17191969
N17-14	349	351	2	I028465	WH17191969
N17-14	351	353	2	I028466	WH17191969
N17-14	353	355	2	I028467	WH17191969
N17-14	355	357	2	I028468	WH17191969
N17-14	357	359	2	I028469	WH17191969
N17-14	359	361	2	I028471	WH17191969
N17-14	361	363	2	I028472	WH17191969
N17-14	363	365	2	I028473	WH17191969
N17-14	365	367	2	I028474	WH17191969
N17-14	367	368.05	1.05	I028475	WH17191969
N17-14	368.05	369.5	1.45	I028476	WH17191969
N17-14	369.5	370.94	1.44	I028477	WH17191969
N17-14	370.94	373	2.06	I028478	WH17191969
N17-14	373	374.48	1.48	I028479	WH17191969
N17-14	374.48	376	1.52	I028481	WH17191969
N17-14	376	378	2	I028482	WH17191969
N17-14	378	379	1	I028483	WH17191969
N17-14	379	380.56	1.56	I028484	WH17191969
N17-14	380.56	382	1.44	I028485	WH17191969
N17-14	382	384	2	I028486	WH17191969
N17-14	384	386	2	I028487	WH17191969
N17-14	386	388	2	I028488	WH17191969
N17-14	388	390	2	I028489	WH17191969
N17-14	390	391.5	1.5	I028491	WH17191969
N17-14	391.5	393	1.5	I028492	WH17191969
N17-14	393	394	1	I028493	WH17191969
N17-14	394	395.5	1.5	I028494	WH17191969
N17-14	395.5	397	1.5	I028495	WH17191969
N17-14	397	399	2	I028496	WH17191969
N17-14	399	401	2	I028497	WH17191969
N17-14	401	403	2	I028498	WH17191969
N17-14	403	405	2	I028499	WH17191969
GZ17-01	22.1	24	1.9	K910901	WH17115343
GZ17-01	24	26	2	K910902	WH17115343
GZ17-01	26	27.5	1.5	K910903	WH17115343
GZ17-01	27.5	29	1.5	K910904	WH17115343
GZ17-01	29	30.19	1.19	K910905	WH17115343
GZ17-01	30.19	32	1.81	K910906	WH17115343
GZ17-01	32	33	1	K910907	WH17115343
GZ17-01	33	35	2	K910908	WH17115343
GZ17-01	35	37	2	K910909	WH17115343
GZ17-01	37	39	2	K910911	WH17115343
GZ17-01	39	41	2	K910912	WH17115343
GZ17-01	41	43	2	K910913	WH17115343
GZ17-01	43	45	2	K910914	WH17115343
GZ17-01	45	47	2	K910915	WH17115343
GZ17-01	47	49	2	K910916	WH17115343
GZ17-01	49	51	2	K910917	WH17115343
GZ17-01	51	53	2	K910918	WH17115343
GZ17-01	53	55	2	K910919	WH17115343
GZ17-01	55	57	2	K910921	WH17115343
GZ17-01	57	59	2	K910922	WH17115343
GZ17-01	59	61	2	K910923	WH17115343
GZ17-01	61	63	2	K910924	WH17115343
GZ17-01	63	65	2	K910925	WH17115343
GZ17-01	65	67	2	K910926	WH17115343
GZ17-01	67	69	2	K910927	WH17115343
GZ17-01	69	71	2	K910928	WH17115343
GZ17-01	71	73	2	K910929	WH17115343
GZ17-01	73	75	2	K910931	WH17115343

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
GZ17-01	75	77	2	K910932	WH17115343
GZ17-01	77	79	2	K910933	WH17115343
GZ17-01	79	81	2	K910934	WH17115343
GZ17-01	81	83	2	K910935	WH17115343
GZ17-01	83	85	2	K910936	WH17115343
GZ17-01	85	87	2	K910937	WH17115343
GZ17-01	87	89	2	K910938	WH17115343
GZ17-01	89	91	2	K910939	WH17115343
GZ17-01	91	93	2	K910941	WH17115343
GZ17-01	93	95	2	K910942	WH17115343
GZ17-01	95	97	2	K910943	WH17115343
GZ17-01	97	99	2	K910944	WH17115343
GZ17-01	99	101	2	K910945	WH17115343
GZ17-01	101	101.95	0.95	K910946	WH17115343
GZ17-01	101.95	104	2.05	K910947	WH17115343
GZ17-01	104	106	2	K910948	WH17115343
GZ17-01	106	108	2	K910949	WH17115343
GZ17-01	108	110	2	K910951	WH17115343
GZ17-01	110	112	2	K910952	WH17115343
GZ17-01	112	114	2	K910953	WH17115343
GZ17-01	114	116.08	2.08	K910954	WH17115343
GZ17-01	116.08	118	1.92	K910955	WH17115343
GZ17-01	118	120	2	K910956	WH17115343
GZ17-01	120	122	2	K910957	WH17115343
GZ17-01	122	124	2	K910958	WH17115343
GZ17-01	124	126	2	K910959	WH17115343
GZ17-01	126	128	2	K910961	WH17115343
GZ17-01	128	130	2	K910962	WH17115343
GZ17-01	130	132	2	K910963	WH17115343
GZ17-01	132	134	2	K910964	WH17115343
GZ17-01	134	136	2	K910965	WH17118329
GZ17-01	136	138	2	K910966	WH17118329
GZ17-01	138	140	2	K910967	WH17118329
GZ17-01	140	142	2	K910968	WH17118329
GZ17-01	142	144	2	K910969	WH17118329
GZ17-01	144	146	2	K910971	WH17115343
GZ17-01	146	148	2	K910972	WH17115343
GZ17-01	148	150	2	K910973	WH17115343
GZ17-01	150	152	2	K910974	WH17118329
GZ17-01	152	154.15	2.15	K910975	WH17118329
GZ17-01	154.15	156	1.85	K910976	WH17118329
GZ17-01	156	158	2	K910977	WH17118329
GZ17-01	158	160	2	K910978	WH17118329
GZ17-01	160	162	2	K910979	WH17118329
GZ17-01	162	164	2	K910981	WH17118329
GZ17-01	164	166	2	K910982	WH17118329
GZ17-01	166	168	2	K910983	WH17118329
GZ17-01	168	170	2	K910984	WH17118329
GZ17-01	170	172	2	K910985	WH17118329
GZ17-01	172	174	2	K910986	WH17118329
GZ17-01	174	176	2	K910987	WH17118329
GZ17-01	176	178	2	K910988	WH17118329
GZ17-01	178	180	2	K910989	WH17118329
GZ17-01	180	182	2	K910991	WH17118329
GZ17-01	182	183	1	K910992	WH17118329
GZ17-01	183	184.26	1.26	K910993	WH17118329
GZ17-01	184.26	186	1.74	K910994	WH17118329
GZ17-01	186	188	2	K910995	WH17118329
GZ17-01	188	190	2	K910996	WH17118329
GZ17-01	190	192	2	K910997	WH17118329
GZ17-01	192	194	2	K910998	WH17118329
GZ17-01	194	196	2	K910999	WH17118329
GZ17-01	196	198	2	K911001	WH17118329
GZ17-01	198	200	2	K911002	WH17118329
GZ17-01	200	202	2	K911003	WH17118329
GZ17-01	202	204	2	K911004	WH17118329

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
GZ17-01	204	206	2	K911005	WH17118329
GZ17-01	206	208	2	K911006	WH17118329
GZ17-01	208	210	2	K911007	WH17118329
GZ17-01	210	212	2	K911008	WH17118329
GZ17-01	212	214	2	K911009	WH17118329
GZ17-01	214	216	2	K911011	WH17118329
GZ17-01	216	217.5	1.5	K911012	WH17118329
GZ17-01	217.5	218.91	1.41	K911013	WH17118329
GZ17-01	218.91	220	1.09	K911014	WH17118329
GZ17-01	220	222	2	K911015	WH17118329
GZ17-01	222	224	2	K911016	WH17118329
GZ17-01	224	226	2	K911017	WH17118329
GZ17-01	226	228	2	K911018	WH17118329
GZ17-01	228	230	2	K911019	WH17118329
GZ17-01	230	232	2	K911021	WH17118329
GZ17-01	232	234	2	K911022	WH17118329
GZ17-01	234	236	2	K911023	WH17118329
GZ17-01	236	238	2	K911024	WH17118329
GZ17-01	238	240	2	K911025	WH17118329
GZ17-01	240	242	2	K911026	WH17118329
GZ17-01	242	244	2	K911027	WH17118329
GZ17-01	244	246	2	K911028	WH17118329
GZ17-01	246	248	2	K911029	WH17118329
GZ17-01	248	250	2	K911031	WH17118329
GZ17-01	250	252	2	K911032	WH17118329
GZ17-01	252	253.5	1.5	K911033	WH17118329
GZ17-01	253.5	254.84	1.34	K911034	WH17118329
GZ17-01	254.84	256	1.16	K911035	WH17118329
GZ17-01	256	257.5	1.5	K911036	WH17118329
GZ17-01	257.5	259	1.5	K911037	WH17118329
GZ17-01	259	260.36	1.36	K911038	WH17118329
GZ17-01	260.36	262	1.64	K911039	WH17118329
GZ17-01	262	263.99	1.99	K911041	WH17118329
GZ17-01	263.99	266	2.01	K911042	WH17118329
GZ17-01	266	268	2	K911043	WH17118329
GZ17-01	268	270	2	K911044	WH17118329
GZ17-01	270	272	2	K911045	WH17118329
GZ17-01	272	274	2	K911046	WH17118329
GZ17-01	274	276	2	K911047	WH17118329
GZ17-01	276	277.95	1.95	K911048	WH17118329
GZ17-01	277.95	279.5	1.55	K911049	WH17118329
GZ17-01	279.5	281	1.5	K911051	WH17118329
GZ17-01	281	282.21	1.21	K911052	WH17118329
GZ17-01	282.21	284	1.79	K911053	WH17118329
GZ17-01	284	286	2	K911054	WH17118329
GZ17-01	286	288	2	K911055	WH17118329
GZ17-01	288	290	2	K911056	WH17118329
GZ17-01	290	292	2	K911057	WH17118329
GZ17-01	292	294	2	K911058	WH17118329
GZ17-01	294	296	2	K911059	WH17118329
GZ17-01	296	298	2	K911061	WH17118329
GZ17-01	298	300	2	K911062	WH17118329
GZ17-01	300	302	2	K911063	WH17118329
GZ17-01	302	304	2	K911064	WH17121535
GZ17-01	304	305.65	1.65	K911065	WH17121535
GZ17-01	305.65	307	1.35	K911066	WH17121535
GZ17-01	307	309	2	K911067	WH17121535
GZ17-01	309	311	2	K911068	WH17121535
GZ17-01	311	313	2	K911069	WH17121535
GZ17-01	313	315	2	K911071	WH17118329
GZ17-01	315	317	2	K911072	WH17118329
GZ17-01	317	319	2	K911073	WH17118329
GZ17-01	319	321	2	K911074	WH17118329
GZ17-01	321	323	2	K911075	WH17118329
GZ17-01	323	325	2	K911076	WH17118329
GZ17-01	325	327	2	K911077	WH17118329
GZ17-01	327	329.02	2.02	K911078	WH17118329
GZ17-01	329.02	331	1.98	K911079	WH17118329
GZ17-01	331	333	2	K911081	WH17121535
GZ17-01	333	335	2	K911082	WH17121535
GZ17-01	335	337	2	K911083	WH17121535
GZ17-01	337	339	2	K911084	WH17121535
GZ17-01	339	341	2	K911085	WH17121535
GZ17-01	341	343	2	K911086	WH17121535
GZ17-01	343	345	2	K911087	WH17121535
GZ17-01	345	347	2	K911088	WH17121535
GZ17-01	347	349	2	K911089	WH17121535
GZ17-01	349	351	2	K911091	WH17121535
GZ17-01	351	353	2	K911092	WH17121535
GZ17-01	353	355	2	K911093	WH17121535
GZ17-01	355	356.5	1.5	K911094	WH17121535
GZ17-01	356.5	358	1.5	K911095	WH17121535
GZ17-01	358	359.51	1.51	K911096	WH17121535
GZ17-01	359.51	361.51	2	K911097	WH17121535
GZ17-01	361.51	363.55	2.04	K911098	WH17121535
GZ17-01	363.55	365	1.45	K911099	WH17121535
GZ17-01	365	367	2	K911101	WH17121535
GZ17-01	367	369	2	K911102	WH17121535
GZ17-01	369	371	2	K911103	WH17121535
GZ17-01	371	373	2	K911104	WH17121535
GZ17-01	373	375	2	K911105	WH17121535
GZ17-01	375	377	2	K911106	WH17121535
GZ17-01	377	379	2	K911107	WH17121535
GZ17-01	379	381	2	K911108	WH17121535
GZ17-01	381	383	2	K911109	WH17121535
GZ17-01	383	385	2	K911111	WH17121535
GZ17-01	385	386.5	1.5	K911112	WH17121535
GZ17-01	386.5	388.01	1.51	K911113	WH17121535
GZ17-02	19.87	21	1.13	K911114	WH17121535
GZ17-02	21	23	2	K911115	WH17121535
GZ17-02	23	25	2	K911116	WH17121535
GZ17-02	25	26.63	1.63	K911117	WH17121535
GZ17-02	26.63	28	1.37	K911118	WH17121535
GZ17-02	28	30	2	K911119	WH17121535
GZ17-02	30	31.33	1.33	K911121	WH17121535
GZ17-02	31.33	33	1.67	K911122	WH17121535
GZ17-02	33	35.13	2.13	K911123	WH17121535
GZ17-02	35.13	37	1.87	K911124	WH17121535
GZ17-02	37	39	2	K911125	WH17121535
GZ17-02	39	41	2	K911126	WH17121535
GZ17-02	41	42.5	1.5	K911127	WH17121535
GZ17-02	42.5	44	1.5	K911128	WH17121535
GZ17-02	44	45.67	1.67	K911129	WH17121535
GZ17-02	45.67	47	1.33	K911131	WH17121535
GZ17-02	47	49	2	K911132	WH17121535
GZ17-02	49	51	2	K911133	WH17121535
GZ17-02	51	53	2	K911134	WH17128977
GZ17-02	53	54.5	1.5	K911135	WH17128977
GZ17-02	54.5	56	1.5	K911136	WH17128977
GZ17-02	56	57.45	1.45	K911137	WH17128977
GZ17-02	57.45	59	1.55	K911138	WH17128977
GZ17-02	59	60.22	1.22	K911139	WH17128977
GZ17-02	60.22	61.5	1.28	K911141	WH17128977
GZ17-02	61.5	62.56	1.06	K911142	WH17128977
GZ17-02	62.56	64	1.44	K911143	WH17128977
GZ17-02	64	66	2	K911144	WH17128977
GZ17-02	66	68	2	K911145	WH17128977
GZ17-02	68	70	2	K911146	WH17128977
GZ17-02	70	72	2	K911147	WH17128977
GZ17-02	72	74	2	K911148	WH17128977
GZ17-02	74	76.2	2.2	K911149	WH17128977
GZ17-02	76.2	78.4	2.2	K911151	WH17128977

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
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GZ17-02	82	84	2	K911154	WH17128977
GZ17-02	84	86	2	K911155	WH17128977
GZ17-02	86	88	2	K911156	WH17128977
GZ17-02	88	90	2	K911157	WH17128977
GZ17-02	90	91.7	1.7	K911158	WH17128977
GZ17-02	91.7	93.29	1.59	K911159	WH17128977
GZ17-02	93.29	95	1.71	K911161	WH17128977
GZ17-02	95	96.5	1.5	K911162	WH17128977
GZ17-02	96.5	98	1.5	K911163	WH17128977
GZ17-02	98	100	2	K911164	WH17128977
GZ17-02	100	102	2	K911165	WH17128977
GZ17-02	102	104	2	K911166	WH17128977
GZ17-02	104	106	2	K911167	WH17128977
GZ17-02	106	108	2	K911168	WH17128977
GZ17-02	108	110	2	K911169	WH17128977
GZ17-02	110	112	2	K911171	WH17128977
GZ17-02	112	114	2	K911172	WH17128977
GZ17-02	114	115.52	1.52	K911173	WH17128977
GZ17-02	115.52	117	1.48	K911174	WH17128977
GZ17-02	117	119	2	K911175	WH17128977
GZ17-02	119	120.64	1.64	K911176	WH17128977
GZ17-02	120.64	122	1.36	K911177	WH17128977
GZ17-02	122	124	2	K911178	WH17128977
GZ17-02	124	126	2	K911179	WH17128977
GZ17-02	126	127.65	1.65	K911181	WH17128977
GZ17-02	127.65	129	1.35	K911182	WH17128977
GZ17-02	129	131	2	K911183	WH17128977
GZ17-02	131	133	2	K911184	WH17128977
GZ17-02	133	135	2	K911185	WH17128977
GZ17-02	135	137	2	K911186	WH17128977
GZ17-02	137	139	2	K911187	WH17128977
GZ17-02	139	141	2	K911188	WH17128977
GZ17-02	141	143	2	K911189	WH17128977
GZ17-02	143	144.31	1.31	K911191	WH17128977
GZ17-02	144.31	146	1.69	K911192	WH17128977
GZ17-02	146	147.5	1.5	K911193	WH17128977
GZ17-02	147.5	149	1.5	K911194	WH17128977
GZ17-02	149	150.19	1.19	K911195	WH17128977
GZ17-02	150.19	154	3.81	K911196	WH17128977
GZ17-02	154	155.5	1.5	K911197	WH17128977
GZ17-02	155.5	157	1.5	K911198	WH17128977
GZ17-02	157	158.81	1.81	K911199	WH17128977
GZ17-02	158.81	161	2.19	K911201	WH17128977
GZ17-02	161	163	2	K911202	WH17128977
GZ17-02	163	165.14	2.14	K911203	WH17128977
GZ17-02	165.14	167	1.86	K911204	WH17128977
GZ17-02	167	169.05	2.05	K911205	WH17128977
GZ17-02	169.05	170	0.95	K911206	WH17128977
GZ17-02	170	171.44	1.44	K911207	WH17128977
GZ17-02	171.44	172.48	1.04	K911208	WH17128977
GZ17-02	172.48	174.05	1.57	K911209	WH17128977
GZ17-02	174.05	175.48	1.43	K911211	WH17128977
GZ17-02	175.48	176.7	1.22	K911212	WH17128977
GZ17-02	176.7	178.48	1.78	K911213	WH17128977
GZ17-02	178.48	180.47	1.99	K911214	WH17128977
GZ17-02	180.47	182.53	2.06	K911215	WH17128977
GZ17-02	182.53	184.4	1.87	K911216	WH17128977
GZ17-02	184.4	185.8	1.4	K911217	WH17128977
GZ17-02	185.8	187.46	1.66	K911218	WH17128977
GZ17-02	187.46	188.89	1.43	K911219	WH17128977
GZ17-02	188.89	190.9	2.01	K911221	WH17128977
GZ17-02	190.9	193	2.1	K911222	WH17128977
GZ17-02	193	195	2	K911223	WH17128977
GZ17-02	195	196.77	1.77	K911224	WH17128977
GZ17-02	196.77	199	2.23	K911225	WH17128977
GZ17-02	199	201	2	K911226	WH17128977
GZ17-02	201	203	2	K911227	WH17128977
GZ17-02	203	205	2	K911228	WH17128977
GZ17-02	205	207	2	K911229	WH17128977
GZ17-02	207	209	2	K911231	WH17128977
GZ17-02	209	211	2	K911232	WH17128977
GZ17-02	211	213	2	K911233	WH17128977
GZ17-02	213	215	2	K911234	WH17128977
GZ17-02	215	217.09	2.09	K911235	WH17128977
GZ17-02	217.09	218.5	1.41	K911236	WH17128977
GZ17-02	218.5	220	1.5	K911237	WH17128977
GZ17-02	220	222.15	2.15	K911238	WH17128977
GZ17-02	222.15	224	1.85	K911239	WH17128977
GZ17-02	224	226	2	K911241	WH17128977
GZ17-02	226	227.97	1.97	K911242	WH17128977
GZ17-02	227.97	230	2.03	K911243	WH17128977
GZ17-02	230	232	2	K911244	WH17128977
GZ17-02	232	234	2	K911245	WH17128977
GZ17-02	234	236	2	K911246	WH17128977
GZ17-02	236	238	2	K911247	WH17128977
GZ17-02	238	240	2	K911248	WH17128977
GZ17-02	240	242	2	K911249	WH17128977
GZ17-02	242	244	2	K911251	WH17128977
GZ17-02	244	246	2	K911252	WH17128977
GZ17-02	246	248	2	K911253	WH17128977
GZ17-02	248	250	2	K911254	WH17128977
GZ17-02	250	252	2	K911255	WH17128977
GZ17-02	252	254	2	K911256	WH17128977
GZ17-02	254	256	2	K911257	WH17128977
GZ17-02	256	257.93	1.93	K911258	WH17128977
GZ17-02	257.93	260	2.07	K911259	WH17128977
GZ17-02	260	261.65	1.65	K911261	WH17128977
GZ17-02	261.65	263	1.35	K911262	WH17128977
GZ17-02	263	265	2	K911263	WH17128977
GZ17-02	265	267	2	K911264	WH17128977
GZ17-02	267	268.06	1.06	K911265	WH17128977
GZ17-02	268.06	270	1.94	K911266	WH17128977
GZ17-02	270	272	2	K911267	WH17128977
GZ17-02	272	273.5	1.5	K911268	WH17128977
GZ17-02	273.5	275	1.5	K911269	WH17128977
GZ17-02	275	276.85	1.85	K911271	WH17128977
GZ17-02	276.85	278	1.15	K911272	WH17128977
GZ17-02	278	279.43	1.43	K911273	WH17128977
GZ17-02	279.43	281	1.57	K911274	WH17128977
GZ17-02	281	282.5	1.5	K911275	WH17128977
GZ17-02	282.5	284	1.5	K911276	WH17128977
GZ17-02	284	285.7	1.7	K911277	WH17128977
GZ17-02	285.7	287	1.3	K911278	WH17128977
GZ17-02	287	288.2	1.2	K911279	WH17128977
GZ17-02	288.2	290	1.8	K911281	WH17128977
GZ17-02	290	291.16	1.16	K911282	WH17128977
GZ17-02	291.16	292.96	1.8	K911283	WH17128977
GZ17-02	292.96	294.31	1.35	K911284	WH17128977
GZ17-02	294.31	296	1.69	K911285	WH17128977
GZ17-02	296	298	2	K911286	WH17128977
GZ17-02	298	300	2	K911287	WH17128977
GZ17-02	300	302	2	K911288	WH17128977
GZ17-02	302	304	2	K911289	WH17128977
GZ17-02	304	306	2	K911291	WH17128977
GZ17-02	306	307.5	1.5	K911292	WH17128977
GZ17-02	307.5	308.5	1	K911293	WH17128977
GZ17-02	308.5	310	1.5	K911294	WH17128977
GZ17-02	310	312	2	K911295	WH17128977
GZ17-02	312	314	2	K911296	WH17128977
GZ17-02	314	316	2	K911297	WH17128977

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
GZ17-02	316	318	2	K911298	WH17128977
GZ17-02	318	320	2	K911299	WH17128977
GZ17-02	320	322	2	K911301	WH17128977
GZ17-02	322	324	2	K911302	WH17128977
GZ17-02	324	325.5	1.5	K911303	WH17128977
GZ17-02	325.5	326.73	1.23	K911304	WH17128977
GZ17-02	326.73	328	1.27	K911305	WH17128977
GZ17-02	328	330	2	K911306	WH17128977
GZ17-02	330	332	2	K911307	WH17128977
GZ17-02	332	333.05	1.05	K911308	WH17128977
GZ17-02	333.05	335	1.95	K911309	WH17128977
GZ17-02	335	337	2	K911311	WH17128977
GZ17-02	337	339	2	K911312	WH17128977
GZ17-02	339	341	2	K911313	WH17128977
GZ17-02	341	342.83	1.83	K911314	WH17128977
GZ17-02	342.83	344	1.17	K911315	WH17128977
GZ17-02	344	346	2	K911316	WH17128977
GZ17-02	346	348	2	K911317	WH17128977
GZ17-02	348	350	2	K911318	WH17128977
GZ17-02	350	351.57	1.57	K911319	WH17128977
GZ17-02	351.57	353	1.43	K911321	WH17128977
GZ17-02	353	355	2	K911322	WH17128977
GZ17-02	355	357	2	K911323	WH17128977
GZ17-02	357	358.07	1.07	K911324	WH17128977
GZ17-02	358.07	360	1.93	K911325	WH17128977
GZ17-02	360	362	2	K911326	WH17128977
GZ17-02	362	363.5	1.5	K911327	WH17128977
GZ17-02	363.5	365	1.5	K911328	WH17128977
GZ17-02	365	367	2	K911329	WH17128977
GZ17-02	367	368.09	1.09	K911331	WH17131075
GZ17-02	368.09	370	1.91	K911332	WH17131075
GZ17-02	370	372.04	2.04	K911333	WH17131075
GZ17-02	372.04	373.4	1.36	K911334	WH17131075
GZ17-02	373.4	374.4	1	K911335	WH17131075
GZ17-02	374.4	376	1.6	K911336	WH17131075
GZ17-02	376	378	2	K911337	WH17131075
GZ17-02	378	380	2	K911338	WH17131075
GZ17-02	380	382	2	K911339	WH17131075
GZ17-02	382	384	2	K911341	WH17131075
GZ17-02	384	385.5	1.5	K911342	WH17131075
GZ17-02	385.5	386.62	1.12	K911343	WH17131075
GZ17-02	386.62	388	1.38	K911344	WH17131075
GZ17-02	388	390	2	K911345	WH17131075
GZ17-02	390	392	2	K911346	WH17131075
GZ17-02	392	394	2	K911347	WH17131075
GZ17-02	394	395.5	1.5	K911348	WH17131075
GZ17-02	395.5	397	1.5	K911349	WH17131075
GZ17-02	397	398.98	1.98	K911351	WH17131075
GZ17-03	4.12	6	1.88	K911352	WH17131075
GZ17-03	6	8	2	K911353	WH17131075
GZ17-03	8	10	2	K911354	WH17131075
GZ17-03	10	12	2	K911355	WH17131075
GZ17-03	12	14	2	K911356	WH17131075
GZ17-03	14	15	1	K911357	WH17131075
GZ17-03	15	16	1	K911358	WH17131075
GZ17-03	16	18	2	K911359	WH17131075
GZ17-03	18	20	2	K911361	WH17131075
GZ17-03	20	22	2	K911362	WH17131075
GZ17-03	22	23	1	K911363	WH17131075
GZ17-03	23	24.43	1.43	K911364	WH17131075
GZ17-03	24.43	26.43	2	K911365	WH17131075
GZ17-03	26.43	28.65	2.22	K911366	WH17131075
GZ17-03	28.65	29.65	1	K911367	WH17131075
GZ17-03	29.65	31	1.35	K911368	WH17131075
GZ17-03	31	32.5	1.5	K911369	WH17131075
GZ17-03	32.5	33.3	0.8	K911371	WH17131075
GZ17-03	33.3	34.3	1	K911372	WH17131075
GZ17-03	34.3	35.3	1	K911373	WH17131075
GZ17-03	35.3	36.3	1	K911374	WH17131075
GZ17-03	36.3	37.47	1.17	K911375	WH17131075
GZ17-03	37.47	38.4	0.93	K911376	WH17131075
GZ17-03	38.4	39.4	1	K911377	WH17131075
GZ17-03	39.4	41	1.6	K911378	WH17131075
GZ17-03	41	42.48	1.48	K911379	WH17131075
GZ17-03	42.48	44	1.52	K911381	WH17131075
GZ17-03	44	46	2	K911382	WH17131075
GZ17-03	46	48	2	K911383	WH17131075
GZ17-03	48	50	2	K911384	WH17131075
GZ17-03	50	52	2	K911385	WH17131075
GZ17-03	52	54	2	K911386	WH17131075
GZ17-03	54	56	2	K911387	WH17131075
GZ17-03	56	58	2	K911388	WH17131075
GZ17-03	58	60	2	K911389	WH17131075
GZ17-03	60	62	2	K911391	WH17131075
GZ17-03	62	64	2	K911392	WH17131075
GZ17-03	64	66	2	K911393	WH17131075
GZ17-03	66	67.43	1.43	K911394	WH17131075
GZ17-03	67.43	68.5	1.07	K911395	WH17131075
GZ17-03	68.5	70	1.5	K911396	WH17131075
GZ17-03	70	72	2	K911397	WH17131075
GZ17-03	72	73.64	1.64	K911398	WH17131075
GZ17-03	73.64	75	1.36	K911399	WH17131075
GZ17-03	75	76.5	1.5	K911401	WH17131075
GZ17-03	76.5	77.77	1.27	K911402	WH17131075
GZ17-03	77.77	79	1.23	K911403	WH17131075
GZ17-03	79	80.5	1.5	K911404	WH17131075
GZ17-03	80.5	82	1.5	K911405	WH17131075
GZ17-03	82	83.57	1.57	K911406	WH17131075
GZ17-03	83.57	85	1.43	K911407	WH17131075
GZ17-03	85	87	2	K911408	WH17131075
GZ17-03	87	88.5	1.5	K911409	WH17131075
GZ17-03	88.5	89.55	1.05	K911411	WH17131075
GZ17-03	89.55	90.83	1.28	K911412	WH17131075
GZ17-03	90.83	92	1.17	K911413	WH17131075
GZ17-03	92	93.5	1.5	K911414	WH17131075
GZ17-03	93.5	94.69	1.19	K911415	WH17131075
GZ17-03	94.69	96	1.31	K911416	WH17131075
GZ17-03	96	97.54	1.54	K911417	WH17131075
GZ17-03	97.54	99	1.46	K911418	WH17131075
GZ17-03	99	100.5	1.5	K911419	WH17131075
GZ17-03	100.5	102	1.5	K911421	WH17132176
GZ17-03	102	103.5	1.5	K911422	WH17132176
GZ17-03	103.5	105	1.5	K911423	WH17132176
GZ17-03	105	106.8	1.8	K911424	WH17132176
GZ17-03	106.8	107.8	1	K911425	WH17132176
GZ17-03	107.8	109	1.2	K911426	WH17132176
GZ17-03	109	110.5	1.5	K911427	WH17132176
GZ17-03	110.5	112	1.5	K911428	WH17132176
GZ17-03	112	113.5	1.5	K911429	WH17132176
GZ17-03	113.5	115	1.5	K911431	WH17132176
GZ17-03	115	116	1	K911432	WH17132176
GZ17-03	116	117.03	1.03	K911433	WH17132176
GZ17-03	117.03	118.5	1.47	K911434	WH17132176
GZ17-03	118.5	120	1.5	K911435	WH17132176
GZ17-03	120	121.5	1.5	K911436	WH17132176
GZ17-03	121.5	123	1.5	K911437	WH17132176
GZ17-03	123	124.5	1.5	K911438	WH17132176
GZ17-03	124.5	126	1.5	K911439	WH17132176
GZ17-03	126	127.5	1.5	K911441	WH17132176
GZ17-03	127.5	129	1.5	K911442	WH17132176
GZ17-03	129	130.5	1.5	K911443	WH17132176
GZ17-03	130.5	132	1.5	K911444	WH17132176

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
GZ17-03	132	133.5	1.5	K911445	WH17132176
GZ17-03	133.5	135	1.5	K911446	WH17132176
GZ17-03	135	136.5	1.5	K911447	WH17132176
GZ17-03	136.5	138	1.5	K911448	WH17132176
GZ17-03	138	139.5	1.5	K911449	WH17132176
GZ17-03	139.5	141	1.5	K911451	WH17132176
GZ17-03	141	142.5	1.5	K911452	WH17132176
GZ17-03	142.5	144	1.5	K911453	WH17132176
GZ17-03	144	145.5	1.5	K911454	WH17132176
GZ17-03	145.5	147.11	1.61	K911455	WH17132176
GZ17-03	147.11	149	1.89	K911456	WH17132176
GZ17-03	149	151	2	K911457	WH17132176
GZ17-03	151	153	2	K911458	WH17132176
GZ17-03	153	155	2	K911459	WH17132176
GZ17-03	155	157	2	K911461	WH17132176
GZ17-03	157	159	2	K911462	WH17132176
GZ17-03	159	161	2	K911463	WH17132176
GZ17-03	161	163	2	K911464	WH17132176
GZ17-03	163	165	2	K911465	WH17132176
GZ17-03	165	167	2	K911466	WH17132176
GZ17-03	167	168	1	K911467	WH17132176
GZ17-03	168	169.1	1.1	K911468	WH17132176
GZ17-03	169.1	171	1.9	K911469	WH17132176
GZ17-03	171	173	2	K911471	WH17132176
GZ17-03	173	175	2	K911472	WH17132176
GZ17-03	175	177	2	K911473	WH17132176
GZ17-03	177	179	2	K911474	WH17132176
GZ17-03	179	181	2	K911475	WH17132176
GZ17-03	181	183	2	K911476	WH17132176
GZ17-03	183	184.44	1.44	K911477	WH17132176
GZ17-03	184.44	186	1.56	K911478	WH17132176
GZ17-03	186	188	2	K911479	WH17132176
GZ17-03	188	190	2	K911481	WH17132176_revised
GZ17-03	190	192	2	K911482	WH17132176_revised
GZ17-03	192	194	2	K911483	WH17132176_revised
GZ17-03	194	196	2	K911484	WH17132176_revised
GZ17-03	196	198	2	K911485	WH17132176_revised
GZ17-03	198	200	2	K911486	WH17132176_revised
GZ17-03	200	202	2	K911487	WH17132176_revised
GZ17-03	202	204	2	K911488	WH17132176_revised
GZ17-03	204	206	2	K911489	WH17132176_revised
GZ17-03	206	208	2	K911491	WH17132176_revised
GZ17-03	208	210	2	K911492	WH17132176_revised
GZ17-03	210	211.4	1.4	K911493	WH17132176_revised
GZ17-03	211.4	213	1.6	K911494	WH17132176_revised
GZ17-03	213	215	2	K911495	WH17132176_revised
GZ17-03	215	217	2	K911496	WH17132176_revised
GZ17-03	217	219	2	K911497	WH17132176_revised
GZ17-03	219	221	2	K911498	WH17132176_revised
GZ17-03	221	223	2	K911499	WH17132176_revised
GZ17-03	223	225	2	K911501	WH17132176_revised
GZ17-03	225	227	2	K911502	WH17132176_revised
GZ17-03	227	229	2	K911503	WH17132176_revised
GZ17-03	229	231	2	K911504	WH17132176_revised
GZ17-03	231	233	2	K911505	WH17132176_revised
GZ17-03	233	234.55	1.55	K911506	WH17132176_revised
GZ17-03	234.55	236	1.45	K911507	WH17132176_revised
GZ17-03	236	238	2	K911508	WH17132176_revised
GZ17-03	238	240	2	K911509	WH17132176_revised
GZ17-03	240	242	2	K911510	WH17132176_revised
GZ17-03	242	244	2	K911511	WH17132176_revised
GZ17-03	244	246	2	K911512	WH17132176_revised
GZ17-03	246	247	1	K911513	WH17132176_revised
GZ17-03	247	248.23	1.23	K911514	WH17132176_revised
GZ17-03	248.23	249.23	1	K911515	WH17132176_revised
GZ17-03	249.23	250.23	1	K911516	WH17132176_revised
GZ17-03	250.23	251.4	1.17	K911517	WH17132176_revised
GZ17-03	251.4	252.4	1	K911518	WH17132176_revised
GZ17-03	252.4	253.5	1.1	K911519	WH17132176_revised
GZ17-03	253.5	255	1.5	K911520	WH17132176_revised
GZ17-03	255	257	2	K911521	WH17132176_revised
GZ17-03	257	259	2	K911522	WH17132176_revised
GZ17-03	259	261	2	K911523	WH17132176_revised
GZ17-03	261	263	2	K911524	WH17132176_revised
GZ17-03	263	265	2	K911525	WH17132176_revised
GZ17-03	265	267	2	K911526	WH17132176_revised
GZ17-03	267	269	2	K911527	WH17132176_revised
GZ17-03	269	270.5	1.5	K911528	WH17132176_revised
GZ17-03	270.5	272	1.5	K911529	WH17132176_revised
GZ17-03	272	273.12	1.12	K911531	WH17132176
GZ17-03	273.12	274.32	1.2	K911532	WH17132176
GZ17-03	274.32	276	1.68	K911533	WH17132176
GZ17-03	276	278	2	K911534	WH17132176
GZ17-03	278	279.47	1.47	K911535	WH17132176
GZ17-03	279.47	281	1.53	K911536	WH17132176
GZ17-03	281	283	2	K911537	WH17132176
GZ17-03	283	285	2	K911538	WH17132176
GZ17-03	285	286.67	1.67	K911539	WH17132176
GZ17-03	286.67	288.4	1.73	K911541	WH17137887
GZ17-03	288.4	290	1.6	K911542	WH17137887
GZ17-03	290	292.03	2.03	K911543	WH17137887
GZ17-03	292.03	294	1.97	K911544	WH17137887
GZ17-03	294	295.5	1.5	K911545	WH17137887
GZ17-03	295.5	296.58	1.08	K911546	WH17137887
GZ17-03	296.58	298	1.42	K911547	WH17137887
GZ17-03	298	300	2	K911548	WH17137887
GZ17-03	300	302	2	K911549	WH17137887
GZ17-03	302	304	2	K911551	WH17137887
GZ17-03	304	305.5	1.5	K911552	WH17137887
GZ17-03	305.5	307	1.5	K911553	WH17137887
GZ17-03	307	308.29	1.29	K911554	WH17137887
GZ17-03	308.29	310	1.71	K911555	WH17137887
GZ17-03	310	312	2	K911556	WH17137887
GZ17-03	312	313.19	1.19	K911557	WH17137887
GZ17-03	313.19	314.43	1.24	K911558	WH17137887
GZ17-03	314.43	315.67	1.24	K911559	WH17137887
GZ17-03	315.67	317	1.33	K911561	WH17137887
GZ17-03	317	319	2	K911562	WH17137887
GZ17-03	319	321	2	K911563	WH17137887
GZ17-03	321	322.5	1.5	K911564	WH17137887
GZ17-03	322.5	323.98	1.48	K911565	WH17137887
GZ17-03	323.98	325.5	1.52	K911566	WH17137887
GZ17-03	325.5	327	1.5	K911567	WH17137887
GZ17-03	327	328.18	1.18	K911568	WH17137887
GZ17-03	328.18	329.42	1.24	K911569	WH17137887
GZ17-03	329.42	331	1.58	K911571	WH17137887
GZ17-03	331	333	2	K911572	WH17137887
GZ17-03	333	335	2	K911573	WH17137887
GZ17-03	335	337	2	K911574	WH17137887
GZ17-03	337	339	2	K911575	WH17137887
GZ17-03	339	340	1	K911576	WH17137887
GZ17-03	340	342	2	K911577	WH17137887
GZ17-03	342	343.5	1.5	K911578	WH17137887
GZ17-03	343.5	345	1.5	K911579	WH17137887
GZ17-03	345	346.5	1.5	K911581	WH17137887
GZ17-03	346.5	347.5	1	K911582	WH17137887
GZ17-03	347.5	348.94	1.44	K911583	WH17137887
GZ17-03	348.94	349.95	1.01	K911584	WH17137887
GZ17-03	349.95	351	1.05	K911585	WH17137887
GZ17-03	351	352.5	1.5	K911586	WH17137887
GZ17-03	352.5	354	1.5	K911587	WH17137887
GZ17-03	354	355.98	1.98	K911588	WH17137887

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
GZ17-03	355.98	357.42	1.44	K911589	WH17137887
GZ17-03	357.42	359	1.58	K911591	WH17137887
GZ17-03	359	361	2	K911592	WH17137887
GZ17-03	361	362.5	1.5	K911593	WH17137887
GZ17-03	362.5	364	1.5	K911594	WH17137887
GZ17-03	364	365.65	1.65	K911595	WH17137887
GZ17-03	365.65	367	1.35	K911596	WH17137887
GZ17-03	367	369	2	K911597	WH17137887
GZ17-03	369	371	2	K911598	WH17137887
GZ17-03	371	373	2	K911599	WH17137887
GZ17-03	373	375	2	K911600	WH17137887
GZ17-03	375	377	2	K911602	WH17137887
GZ17-03	377	379	2	K911603	WH17137887
GZ17-03	379	381	2	K911604	WH17137887
GZ17-03	381	383	2	K911605	WH17137887
GZ17-03	383	385	2	K911606	WH17137887
GZ17-03	385	387	2	K911607	WH17137887
GZ17-03	387	389	2	K911608	WH17137887
GZ17-03	389	391	2	K911609	WH17137887
GZ17-03	391	392.67	1.67	K911611	WH17137887
GZ17-03	392.67	394.26	1.59	K911612	WH17137887
GZ17-03	394.26	396	1.74	K911613	WH17137887
GZ17-03	396	398	2	K911614	WH17137887
GZ17-03	398	399.58	1.58	K911615	WH17137887
GZ17-03	399.58	401	1.42	K911616	WH17137887
GZ17-03	401	402.77	1.77	K911617	WH17137887
GZ17-03	402.77	404	1.23	K911618	WH17137887
GZ17-03	404	406	2	K911619	WH17137887
GZ17-03	406	407.79	1.79	K911621	WH17137887
GZ17-03	407.79	409	1.21	K911622	WH17137887
GZ17-03	409	411	2	K911623	WH17137887
GZ17-03	411	412.09	1.09	K911624	WH17137887
GZ17-03	412.09	413.5	1.41	K911625	WH17137887
GZ17-03	413.5	414.66	1.16	K911626	WH17137887
GZ17-03	414.66	416.3	1.64	K911627	WH17137887
GZ17-03	416.3	417.67	1.37	K911628	WH17137887
GZ17-03	417.67	419	1.33	K911629	WH17137887
GZ17-03	419	421	2	K911631	WH17137887
GZ17-03	421	423	2	K911632	WH17137887
GZ17-03	423	425	2	K911633	WH17137887
GZ17-03	425	427	2	K911634	WH17140072
GZ17-03	427	429	2	K911635	WH17140072
GZ17-03	429	431	2	K911636	WH17140072
GZ17-03	431	433	2	K911637	WH17140072
GZ17-03	433	434.17	1.17	K911638	WH17140072
GZ17-03	434.17	435.25	1.08	K911639	WH17140072
GZ17-03	435.25	436.42	1.17	K911641	WH17140072
GZ17-03	436.42	438	1.58	K911642	WH17140072
GZ17-03	438	439.5	1.5	K911643	WH17140072
GZ17-03	439.5	440.64	1.14	K911644	WH17140072
GZ17-03	440.64	442	1.36	K911645	WH17140072
GZ17-03	442	444	2	K911646	WH17140072
GZ17-03	444	445.5	1.5	K911647	WH17140072
GZ17-03	445.5	447	1.5	K911648	WH17140072
GZ17-03	447	449	2	K911649	WH17140072
GZ17-03	449	451	2	K911651	WH17140072_revised
GZ17-03	451	453	2	K911652	WH17140072_revised
GZ17-03	453	455	2	K911653	WH17140072_revised
GZ17-03	455	457	2	K911654	WH17140072_revised
GZ17-03	457	459	2	K911655	WH17140072_revised
GZ17-03	459	461	2	K911656	WH17140072_revised
GZ17-03	461	462.82	1.82	K911657	WH17140072_revised
GZ17-03	462.82	464	1.18	K911658	WH17140072_revised
GZ17-03	464	465	1	K911659	WH17140072_revised
GZ17-03	465	466.47	1.47	K911661	WH17140072_revised
GZ17-03	466.47	468.5	2.03	K911662	WH17140072_revised
GZ17-03	468.5	470.33	1.83	K911663	WH17140072_revised
GZ17-03	470.33	472	1.67	K911664	WH17140072_revised
GZ17-03	472	474	2	K911665	WH17140072_revised
GZ17-03	474	476	2	K911666	WH17140072_revised
GZ17-03	476	477.87	1.87	K911667	WH17140072_revised
GZ17-03	477.87	479.5	1.63	K911668	WH17140072_revised
GZ17-03	479.5	481.5	2	K911669	WH17140072_revised
GZ17-03	481.5	482.81	1.31	K911671	WH17140072
GZ17-03	482.81	484.8	1.99	K911672	WH17140072
GZ17-03	484.8	486.78	1.98	K911673	WH17140072
GZ17-03	486.78	488.2	1.42	K911674	WH17140072
GZ17-03	488.2	489.96	1.76	K911675	WH17140072
GZ17-03	489.96	490.96	1	K911676	WH17140072
GZ17-03	490.96	492.33	1.37	K911677	WH17140072
GZ17-03	492.33	493.28	0.95	K911678	WH17140072
GZ17-03	493.28	495	1.72	K911679	WH17140072
GZ17-03	495	496.82	1.82	K911681	WH17140072
RVD17-01	4.57	6.1	1.53	K914151	WH17121535
RVD17-01	6.1	8	1.9	K914152	WH17121535
RVD17-01	8	10	2	K914153	WH17121535
RVD17-01	10	12	2	K914154	WH17121535
RVD17-01	12	14	2	K914155	WH17121535
RVD17-01	14	15.5	1.5	K914156	WH17121535
RVD17-01	15.5	17	1.5	K914157	WH17121535
RVD17-01	17	18.05	1.05	K914158	WH17121535
RVD17-01	18.05	20	1.95	K914159	WH17121535
RVD17-01	20	22	2	K914161	WH17121535
RVD17-01	22	23.71	1.71	K914162	WH17121535
RVD17-01	23.71	25	1.29	K914163	WH17121535
RVD17-01	25	27	2	K914164	WH17121535
RVD17-01	27	29	2	K914165	WH17121535
RVD17-01	29	31	2	K914166	WH17121535
RVD17-01	31	33	2	K914167	WH17121535
RVD17-01	33	35	2	K914168	WH17121535
RVD17-01	35	37	2	K914169	WH17121535
RVD17-01	37	39	2	K914171	WH17121535
RVD17-01	39	41	2	K914172	WH17121535
RVD17-01	41	43	2	K914173	WH17121535
RVD17-01	43	45	2	K914174	WH17121535
RVD17-01	45	47	2	K914175	WH17121535
RVD17-01	47	49	2	K914176	WH17121535
RVD17-01	49	51	2	K914177	WH17121535
RVD17-01	51	53	2	K914178	WH17121535
RVD17-01	53	55	2	K914179	WH17121535
RVD17-01	55	56.5	1.5	K914181	WH17121535
RVD17-01	56.5	58	1.5	K914182	WH17121535
RVD17-01	58	59.1	1.1	K914183	WH17121535
RVD17-01	59.1	59.69	0.59	K914184	WH17121535
RVD17-01	59.69	61	1.31	K914185	WH17121535
RVD17-01	61	63	2	K914186	WH17121535
RVD17-01	63	65	2	K914187	WH17121535
RVD17-01	65	67	2	K914188	WH17121535
RVD17-01	67	69	2	K914189	WH17121535
RVD17-01	69	71	2	K914191	WH17129054
RVD17-01	71	73	2	K914192	WH17129054
RVD17-01	73	75	2	K914193	WH17129054
RVD17-01	75	77	2	K914194	WH17129054
RVD17-01	77	79	2	K914195	WH17129054
RVD17-01	79	81	2	K914196	WH17129054
RVD17-01	81	83	2	K914197	WH17129054
RVD17-01	83	85	2	K914198	WH17129054
RVD17-01	85	86.25	1.25	K914199	WH17129054
RVD17-01	86.25	87.39	1.14	K914201	WH17129054
RVD17-01	87.39	89	1.61	K914202	WH17129054
RVD17-01	89	91	2	K914203	WH17129054
RVD17-01	91	93	2	K914204	WH17129054

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-01	93	95	2	K914205	WH17129054
RVD17-01	95	97	2	K914206	WH17129054
RVD17-01	97	99	2	K914207	WH17129054
RVD17-01	99	101	2	K914208	WH17129054
RVD17-01	101	103	2	K914209	WH17129054
RVD17-01	103	105	2	K914211	WH17129054
RVD17-01	105	107	2	K914212	WH17129054
RVD17-01	107	108.59	1.59	K914213	WH17129054
RVD17-01	108.59	110	1.41	K914214	WH17129054
RVD17-01	110	112	2	K914215	WH17129054
RVD17-01	112	114	2	K914216	WH17129054
RVD17-01	114	116	2	K914217	WH17129054
RVD17-01	116	118	2	K914218	WH17129054
RVD17-01	118	120	2	K914219	WH17129054
RVD17-01	120	122	2	K914221	WH17129054
RVD17-01	122	123.39	1.39	K914222	WH17129054
RVD17-01	123.39	125	1.61	K914223	WH17129054
RVD17-01	125	126	1	K914224	WH17129054
RVD17-01	126	127	1	K914225	WH17129054
RVD17-01	127	128	1	K914226	WH17129054
RVD17-01	128	130	2	K914227	WH17129054
RVD17-01	130	132	2	K914228	WH17129054
RVD17-01	132	134	2	K914229	WH17129054
RVD17-01	134	136	2	K914232	WH17129054_revised
RVD17-01	136	138	2	K914233	WH17129054_revised
RVD17-01	138	140	2	K914234	WH17129054_revised
RVD17-01	140	142	2	K914235	WH17129054_revised
RVD17-01	142	144	2	K914236	WH17129054_revised
RVD17-01	144	146	2	K914237	WH17129054_revised
RVD17-01	146	148	2	K914238	WH17129054_revised
RVD17-01	148	150	2	K914239	WH17129054_revised
RVD17-01	150	152	2	K914241	WH17129054_revised
RVD17-01	152	154	2	K914242	WH17129054_revised
RVD17-01	154	156	2	K914243	WH17129054_revised
RVD17-01	156	158	2	K914244	WH17129054_revised
RVD17-01	158	159.42	1.42	K914245	WH17129054_revised
RVD17-01	159.42	160.5	1.08	K914246	WH17129054_revised
RVD17-01	160.5	162	1.5	K914247	WH17129054_revised
RVD17-01	162	163.82	1.82	K914248	WH17129054_revised
RVD17-01	163.82	165	1.18	K914249	WH17129054_revised
RVD17-01	165	167	2	K914251	WH17121535
RVD17-01	167	169	2	K914252	WH17121535
RVD17-01	169	171	2	K914253	WH17121535
RVD17-01	171	173	2	K914254	WH17121535
RVD17-01	173	175	2	K914255	WH17121535
RVD17-01	175	177	2	K914256	WH17121535
RVD17-01	177	179	2	K914257	WH17121535
RVD17-01	179	181	2	K914258	WH17121535
RVD17-01	181	182.17	1.17	K914259	WH17121535
RVD17-01	182.17	183	0.83	K914261	WH17121535
RVD17-01	183	184.58	1.58	K914262	WH17121535
RVD17-01	184.58	186	1.42	K914263	WH17121535
RVD17-01	186	188	2	K914264	WH17121535
RVD17-01	188	190	2	K914265	WH17121535
RVD17-01	190	192	2	K914266	WH17121535
RVD17-01	192	194	2	K914267	WH17121535
RVD17-01	194	196	2	K914268	WH17121535
RVD17-01	196	198	2	K914269	WH17121535
RVD17-01	198	200	2	K914271	WH17121535
RVD17-01	200	202	2	K914272	WH17121535
RVD17-01	202	204	2	K914273	WH17121535
RVD17-01	204	206	2	K914274	WH17129054
RVD17-01	206	208	2	K914275	WH17129054
RVD17-01	208	210	2	K914276	WH17129054
RVD17-01	210	212	2	K914277	WH17129054
RVD17-01	212	214	2	K914278	WH17129054
RVD17-01	214	216	2	K914279	WH17129054
RVD17-01	216	218	2	K914281	WH17129054
RVD17-01	218	220	2	K914282	WH17129054
RVD17-01	220	221.5	1.5	K914283	WH17129054
RVD17-01	221.5	223	1.5	K914284	WH17129054
RVD17-01	223	224.38	1.38	K914285	WH17129054
RVD17-01	224.38	226	1.62	K914286	WH17129054
RVD17-01	226	227.5	1.5	K914287	WH17129054
RVD17-01	227.5	229	1.5	K914288	WH17129054
RVD17-01	229	230.64	1.64	K914289	WH17129054
RVD17-01	230.64	231.35	0.71	K914291	WH17129054
RVD17-01	231.35	233	1.65	K914292	WH17129054
RVD17-01	233	235	2	K914293	WH17129054
RVD17-01	235	237	2	K914294	WH17129054
RVD17-01	237	239	2	K914295	WH17129054
RVD17-01	239	241	2	K914296	WH17129054
RVD17-01	241	243	2	K914298	WH17129054
RVD17-01	243	245	2	K914299	WH17129054
RVD17-01	245	247	2	K914301	WH17129054
RVD17-01	247	249	2	K914302	WH17129054
RVD17-01	249	251	2	K914303	WH17129054
RVD17-01	251	253	2	K914304	WH17129054
RVD17-01	253	255	2	K914305	WH17129054
RVD17-01	255	257	2	K914306	WH17129054
RVD17-01	257	259	2	K914307	WH17129054
RVD17-01	259	261	2	K914308	WH17129054
RVD17-01	261	263	2	K914309	WH17129054
RVD17-01	263	265	2	K914311	WH17129054
RVD17-01	265	267	2	K914312	WH17129054
RVD17-01	267	269	2	K914313	WH17129054
RVD17-01	269	271	2	K914314	WH17129054
RVD17-01	271	273	2	K914315	WH17129054
RVD17-01	273	275	2	K914316	WH17129054
RVD17-01	275	277	2	K914317	WH17129054
RVD17-01	277	279	2	K914318	WH17129054
RVD17-01	279	281	2	K914319	WH17129054
RVD17-01	281	283	2	K914321	WH17129054
RVD17-01	283	285	2	K914322	WH17129054
RVD17-01	285	287	2	K914323	WH17129054
RVD17-01	287	289	2	K914324	WH17129054
RVD17-01	289	291	2	K914325	WH17129054
RVD17-01	291	293	2	K914326	WH17129054
RVD17-01	293	294	1	K914327	WH17129054
RVD17-01	294	295.23	1.23	K914328	WH17129054
RVD17-01	295.23	297	1.77	K914329	WH17129054
RVD17-01	297	298.7	1.7	K914331	WH17129054
RVD17-01	298.7	300	1.3	K914332	WH17129054
RVD17-01	300	302	2	K914333	WH17129054
RVD17-01	302	304	2	K914334	WH17129054
RVD17-01	304	306	2	K914335	WH17129054
RVD17-01	306	308	2	K914336	WH17129054
RVD17-01	308	310	2	K914337	WH17129054
RVD17-01	310	312	2	K914338	WH17129054
RVD17-01	312	314	2	K914339	WH17129054
RVD17-01	314	315.42	1.42	K914341	WH17129054
RVD17-01	315.42	317	1.58	K914342	WH17129054
RVD17-01	317	319	2	K914343	WH17129054
RVD17-01	319	321	2	K914344	WH17129054
RVD17-01	321	323	2	K914345	WH17129054
RVD17-01	323	325	2	K914347	WH17129054
RVD17-01	325	326	1	K914348	WH17129054
RVD17-01	326	327.23	1.23	K914349	WH17129054
RVD17-01	327.23	329	1.77	K914351	WH17129054
RVD17-01	329	331	2	K914352	WH17129054
RVD17-01	331	333	2	K914353	WH17129054
RVD17-01	333	335	2	K914354	WH17129054

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-01	335	337	2	K914355	WH17129054
RVD17-01	337	339	2	K914356	WH17129054
RVD17-01	339	341	2	K914357	WH17129054
RVD17-01	341	343	2	K914358	WH17129054
RVD17-01	343	345	2	K914359	WH17129054
RVD17-01	345	347	2	K914361	WH17129054
RVD17-01	347	349	2	K914362	WH17129054
RVD17-01	349	351	2	K914363	WH17129054
RVD17-01	351	353	2	K914364	WH17129054
RVD17-01	353	355	2	K914365	WH17129054
RVD17-01	355	357	2	K914366	WH17129054
RVD17-01	357	359	2	K914367	WH17129054
RVD17-01	359	361	2	K914368	WH17129054
RVD17-01	361	363	2	K914369	WH17129054
RVD17-01	363	365	2	K914371	WH17129054
RVD17-01	365	367	2	K914372	WH17129054
RVD17-01	367	368	1	K914373	WH17129054
RVD17-01	368	369.62	1.62	K914374	WH17129054
RVD17-01	369.62	371	1.38	K914375	WH17129054
RVD17-01	371	373	2	K914376	WH17129054
RVD17-01	373	375	2	K914377	WH17129054
RVD17-01	375	377	2	K914378	WH17129054
RVD17-01	377	379	2	K914379	WH17129054
RVD17-01	379	381	2	K914381	WH17129054
RVD17-01	381	383	2	K914382	WH17129054
RVD17-01	383	385	2	K914383	WH17129054
RVD17-01	385	387	2	K914384	WH17129054
RVD17-01	387	389	2	K914385	WH17129054
RVD17-01	389	391	2	K914386	WH17129054
RVD17-01	391	393	2	K914387	WH17129054
RVD17-01	393	395	2	K914388	WH17129054
RVD17-01	395	396.66	1.66	K914389	WH17129054
RVD17-01	396.66	398.3	1.64	K914391	WH17129054
RVD17-01	398.3	400.28	1.98	K914392	WH17129054
RVD17-01	400.28	402	1.72	K914393	WH17129054
RVD17-01	402	404	2	K914394	WH17129054
RVD17-01	404	406	2	K914395	WH17129054
RVD17-01	406	408	2	K914396	WH17129054
RVD17-01	408	409.9	1.9	K914397	WH17129054
RVD17-01	409.9	410.96	1.06	K914398	WH17129054
RVD17-01	410.96	412.5	1.54	K914399	WH17129054
RVD17-01	412.5	414.5	2	K914401	WH17129054
RVD17-01	414.5	416.5	2	K914402	WH17129054
RVD17-01	416.5	418.5	2	K914403	WH17129054
RVD17-01	418.5	420.5	2	K914404	WH17129054
RVD17-01	420.5	422.5	2	K914405	WH17129054
RVD17-01	422.5	424.48	1.98	K914406	WH17129054
RVD17-01	424.48	426	1.52	K914407	WH17129054
RVD17-01	426	428	2	K914408	WH17129054
RVD17-01	428	430	2	K914409	WH17129054
RVD17-01	430	432	2	K914411	WH17129054
RVD17-01	432	434	2	K914412	WH17129054
RVD17-01	434	436	2	K914413	WH17129054
RVD17-01	436	438	2	K914414	WH17129054
RVD17-01	438	440	2	K914415	WH17129054
RVD17-01	440	442	2	K914416	WH17129054
RVD17-01	442	444	2	K914417	WH17129054
RVD17-01	444	446	2	K914418	WH17129054
RVD17-01	446	448	2	K914419	WH17129054
RVD17-01	448	450	2	K914421	WH17129054
RVD17-01	450	452	2	K914422	WH17129054
RVD17-01	452	454	2	K914423	WH17129054
RVD17-01	454	456	2	K914424	WH17129054
RVD17-01	456	458	2	K914425	WH17129054
RVD17-01	458	460	2	K914426	WH17129054
RVD17-01	460	461.25	1.25	K914427	WH17129054
RVD17-01	461.25	462.35	1.1	K914428	WH17129054
RVD17-01	462.35	464	1.65	K914429	WH17129054
RVD17-01	464	466	2	K914432	WH17129054
RVD17-01	466	468	2	K914433	WH17129054
RVD17-01	468	470	2	K914434	WH17129054
RVD17-01	470	471	1	K914435	WH17129054
RVD17-01	471	472.2	1.2	K914436	WH17129054
RVD17-01	472.2	474	1.8	K914437	WH17129054
RVD17-01	474	476	2	K914438	WH17129054
RVD17-01	476	478	2	K914439	WH17129054
RVD17-01	478	480	2	K914441	WH17129054
RVD17-01	480	482	2	K914442	WH17129054
RVD17-01	482	484	2	K914443	WH17129054
RVD17-01	484	486	2	K914444	WH17129054
RVD17-01	486	488	2	K914445	WH17129054
RVD17-01	488	490	2	K914446	WH17129054
RVD17-01	490	492	2	K914447	WH17129054
RVD17-01	492	494	2	K914448	WH17131075
RVD17-01	494	495.86	1.86	K914449	WH17131075
RVD17-01	495.86	497.04	1.18	K914451	WH17131075
RVD17-01	497.04	498.72	1.68	K914452	WH17131075
RVD17-01	498.72	500	1.28	K914453	WH17131075
RVD17-01	500	502	2	K914454	WH17131075
RVD17-01	502	504	2	K914455	WH17131075
RVD17-01	504	506	2	K914456	WH17131075
RVD17-01	506	507.5	1.5	K914457	WH17131075
RVD17-01	507.5	508.71	1.21	K914458	WH17131075
RVD17-02	6.1	8	1.9	K914459	WH17131075
RVD17-02	8	10	2	K914461	WH17131075
RVD17-02	10	12	2	K914462	WH17131075
RVD17-02	12	14	2	K914463	WH17131075
RVD17-02	14	16	2	K914464	WH17131075
RVD17-02	16	18	2	K914465	WH17131075
RVD17-02	18	20	2	K914466	WH17131075
RVD17-02	20	22	2	K914467	WH17131075
RVD17-02	22	24	2	K914468	WH17131075
RVD17-02	24	26	2	K914469	WH17131075
RVD17-02	26	28	2	K914471	WH17131075
RVD17-02	28	30	2	K914472	WH17131075
RVD17-02	30	31.09	1.09	K914473	WH17131075
RVD17-02	31.09	33	1.91	K914474	WH17131075
RVD17-02	33	35	2	K914475	WH17131075
RVD17-02	35	37	2	K914476	WH17131075
RVD17-02	37	39	2	K914477	WH17131075
RVD17-02	39	41	2	K914478	WH17131075
RVD17-02	41	42.5	1.5	K914479	WH17131075
RVD17-02	42.5	44.01	1.51	K914481	WH17131075
RVD17-02	44.01	46	1.99	K914482	WH17131075
RVD17-02	46	48	2	K914483	WH17131075
RVD17-02	48	50	2	K914484	WH17131075
RVD17-02	50	52	2	K914485	WH17131075
RVD17-02	52	54	2	K914486	WH17131075
RVD17-02	54	56	2	K914487	WH17131075
RVD17-02	56	58	2	K914488	WH17131075
RVD17-02	58	60	2	K914489	WH17131075
RVD17-02	60	62	2	K914491	WH17131075
RVD17-02	62	64	2	K914492	WH17131075
RVD17-02	64	66	2	K914493	WH17131075
RVD17-02	66	68	2	K914494	WH17131075
RVD17-02	68	70	2	K914495	WH17131075
RVD17-02	70	72	2	K914496	WH17131075
RVD17-02	72	73.52	1.52	K914497	WH17131075
RVD17-02	73.52	75	1.48	K914498	WH17131075
RVD17-02	75	77	2	K914499	WH17131075
RVD17-02	77	79	2	K914501	WH17131075
RVD17-02	79	81	2	K914502	WH17131075

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-02	81	83	2	K914503	WH17131075
RVD17-02	83	85	2	K914504	WH17131075
RVD17-02	85	86	1	K914505	WH17131075
RVD17-02	86	87.29	1.29	K914506	WH17131075
RVD17-02	87.29	89	1.71	K914507	WH17131075
RVD17-02	89	91	2	K914508	WH17131075
RVD17-02	91	93	2	K914509	WH17131075
RVD17-02	93	95	2	K914511	WH17131075
RVD17-02	95	97	2	K914512	WH17131075
RVD17-02	97	99	2	K914513	WH17131075
RVD17-02	99	101	2	K914514	WH17131075
RVD17-02	101	103	2	K914515	WH17131075
RVD17-02	103	105	2	K914516	WH17131075
RVD17-02	105	107	2	K914517	WH17131075
RVD17-02	107	108.46	1.46	K914518	WH17131075
RVD17-02	108.46	110	1.54	K914519	WH17131075
RVD17-02	110	112	2	K914521	WH17131075
RVD17-02	112	114	2	K914522	WH17131075
RVD17-02	114	116	2	K914523	WH17132180
RVD17-02	116	118	2	K914524	WH17132180
RVD17-02	118	120	2	K914525	WH17132180
RVD17-02	120	122	2	K914526	WH17132180
RVD17-02	122	124	2	K914527	WH17132180
RVD17-02	124	126	2	K914528	WH17132180
RVD17-02	126	128	2	K914529	WH17132180
RVD17-02	128	130	2	K914531	WH17132180
RVD17-02	130	132	2	K914532	WH17132180
RVD17-02	132	134	2	K914533	WH17132180
RVD17-02	134	136	2	K914534	WH17132180
RVD17-02	136	138	2	K914535	WH17132180
RVD17-02	138	140	2	K914536	WH17132180
RVD17-02	140	142	2	K914537	WH17132180
RVD17-02	142	143.5	1.5	K914538	WH17132180
RVD17-02	143.5	144.75	1.25	K914539	WH17132180
RVD17-02	144.75	146	1.25	K914541	WH17132180
RVD17-02	146	148	2	K914542	WH17132180
RVD17-02	148	150	2	K914543	WH17132180
RVD17-02	150	152	2	K914544	WH17132180
RVD17-02	152	154	2	K914545	WH17132180
RVD17-02	154	156	2	K914546	WH17132180
RVD17-02	156	158	2	K914547	WH17132180
RVD17-02	158	160	2	K914548	WH17132180
RVD17-02	160	162	2	K914549	WH17132180
RVD17-02	162	164	2	K914551	WH17132180
RVD17-02	164	166	2	K914552	WH17132180
RVD17-02	166	168	2	K914553	WH17132180
RVD17-02	168	170	2	K914554	WH17132180
RVD17-02	170	172	2	K914555	WH17132180
RVD17-02	172	174	2	K914556	WH17132180
RVD17-02	174	176	2	K914557	WH17132180
RVD17-02	176	178	2	K914558	WH17132180
RVD17-02	178	180	2	K914559	WH17132180
RVD17-02	180	181.41	1.41	K914561	WH17132180
RVD17-02	181.41	183	1.59	K914562	WH17132180
RVD17-02	183	185	2	K914563	WH17132180
RVD17-02	185	187	2	K914564	WH17132180
RVD17-02	187	189	2	K914565	WH17132180
RVD17-02	189	191	2	K914566	WH17132180
RVD17-02	191	193	2	K914567	WH17132180
RVD17-02	193	195	2	K914568	WH17132180
RVD17-02	195	197	2	K914569	WH17132180
RVD17-02	197	199	2	K914571	WH17132180
RVD17-02	199	201	2	K914572	WH17132180
RVD17-02	201	203	2	K914573	WH17132180
RVD17-02	203	205	2	K914574	WH17132180
RVD17-02	205	207	2	K914575	WH17132180
RVD17-02	207	209	2	K914576	WH17132180
RVD17-02	209	211	2	K914577	WH17132180
RVD17-02	211	213	2	K914578	WH17132180
RVD17-02	213	215	2	K914579	WH17132180
RVD17-02	215	217	2	K914581	WH17132180
RVD17-02	217	219	2	K914582	WH17132180
RVD17-02	219	221	2	K914583	WH17132180
RVD17-02	221	223	2	K914584	WH17132180
RVD17-02	223	225	2	K914585	WH17132180
RVD17-02	225	227	2	K914586	WH17132180
RVD17-02	227	229	2	K914587	WH17132180
RVD17-02	229	231	2	K914588	WH17132180
RVD17-02	231	233	2	K914589	WH17132180
RVD17-02	233	235	2	K914591	WH17132180
RVD17-02	235	237	2	K914592	WH17132180
RVD17-02	237	239	2	K914593	WH17132180
RVD17-02	239	241	2	K914594	WH17132180
RVD17-02	241	243	2	K914595	WH17132180
RVD17-02	243	245	2	K914596	WH17132180
RVD17-02	245	247	2	K914597	WH17132180
RVD17-02	247	249	2	K914598	WH17132180
RVD17-02	249	251	2	K914599	WH17132180
RVD17-02	251	253	2	K914601	WH17132180
RVD17-02	253	255	2	K914602	WH17132180
RVD17-02	255	257	2	K914603	WH17132180
RVD17-02	257	258.98	1.98	K914604	WH17132180
RVD17-02	258.98	260	1.02	K914605	WH17132180
RVD17-02	260	261	1	K914606	WH17132180
RVD17-02	261	262	1	K914607	WH17132180
RVD17-02	262	263	1	K914608	WH17132180
RVD17-02	263	264	1	K914609	WH17132180
RVD17-02	264	265	1	K914611	WH17132180
RVD17-02	265	266.07	1.07	K914612	WH17132180
RVD17-02	266.07	268	1.93	K914613	WH17132180
RVD17-02	268	270	2	K914614	WH17132180
RVD17-02	270	272	2	K914615	WH17132180
RVD17-02	272	274	2	K914616	WH17132180
RVD17-02	274	276	2	K914617	WH17132180
RVD17-02	276	278	2	K914618	WH17132180
RVD17-02	278	280	2	K914619	WH17132180
RVD17-02	280	282	2	K914621	WH17132180
RVD17-02	282	284	2	K914622	WH17132180
RVD17-02	284	286	2	K914623	WH17132180
RVD17-02	286	288	2	K914624	WH17132180
RVD17-02	288	290	2	K914625	WH17132180
RVD17-02	290	292	2	K914626	WH17132180
RVD17-02	292	294	2	K914627	WH17132180
RVD17-02	294	296	2	K914628	WH17132180
RVD17-02	296	298	2	K914629	WH17137887
RVD17-02	298	300	2	K914631	WH17137887
RVD17-02	300	302	2	K914632	WH17137887
RVD17-02	302	304	2	K914633	WH17137887
RVD17-02	304	305.98	1.98	K914634	WH17137887
RVD17-02	305.98	308	2.02	K914635	WH17137887
RVD17-02	308	310	2	K914636	WH17137887
RVD17-02	310	312	2	K914637	WH17137887
RVD17-02	312	314	2	K914638	WH17137887
RVD17-02	314	316	2	K914639	WH17137887
RVD17-02	316	318	2	K914641	WH17137887
RVD17-02	318	320	2	K914642	WH17137887
RVD17-02	320	322	2	K914643	WH17137887
RVD17-02	322	324	2	K914644	WH17137887
RVD17-02	324	326	2	K914645	WH17137887
RVD17-02	326	328	2	K914646	WH17137887
RVD17-02	328	330	2	K914647	WH17137887
RVD17-02	330	332	2	K914648	WH17137887

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-02	332	333.5	1.5	K914649	WH17137887
RVD17-02	333.5	334.76	1.26	K914651	WH17137887
RVD17-02	334.76	336	1.24	K914652	WH17137887
RVD17-02	336	337	1	K914653	WH17137887
RVD17-02	337	338	1	K914654	WH17137887
RVD17-02	338	339	1	K914655	WH17137887
RVD17-02	339	340	1	K914656	WH17137887
RVD17-02	340	341	1	K914657	WH17137887
RVD17-02	341	342	1	K914658	WH17137887
RVD17-02	342	343	1	K914659	WH17137887
RVD17-02	343	344	1	K914661	WH17137887
RVD17-02	344	345	1	K914662	WH17137887
RVD17-02	345	346	1	K914663	WH17137887
RVD17-02	346	347	1	K914664	WH17137887
RVD17-02	347	348	1	K914665	WH17137887
RVD17-02	348	349.1	1.1	K914666	WH17137887
RVD17-02	349.1	351	1.9	K914667	WH17137887
RVD17-02	351	353	2	K914668	WH17137887
RVD17-02	353	355	2	K914669	WH17137887
RVD17-02	355	357	2	K914671	WH17137887
RVD17-02	357	359	2	K914672	WH17137887
RVD17-02	359	361	2	K914673	WH17137887
RVD17-02	361	363	2	K914674	WH17137887
RVD17-02	363	365	2	K914675	WH17137887
RVD17-02	365	367	2	K914676	WH17137887
RVD17-02	367	369	2	K914677	WH17137887
RVD17-02	369	371	2	K914678	WH17137887
RVD17-02	371	373	2	K914679	WH17137887
RVD17-02	373	375	2	K914681	WH17137887
RVD17-02	375	376.96	1.96	K914682	WH17137887
RVD17-02	376.96	379	2.04	K914683	WH17137887
RVD17-02	379	381	2	K914684	WH17137887
RVD17-02	381	383	2	K914685	WH17137887
RVD17-02	383	385	2	K914686	WH17137887
RVD17-02	385	387	2	K914687	WH17137887
RVD17-02	387	389	2	K914688	WH17137887
RVD17-02	389	391	2	K914689	WH17137887
RVD17-02	391	393	2	K914691	WH17137887
RVD17-02	393	395	2	K914692	WH17137887
RVD17-02	395	397	2	K914693	WH17137887
RVD17-02	397	399	2	K914694	WH17137887
RVD17-02	399	401	2	K914695	WH17137887
RVD17-02	401	403	2	K914696	WH17137887
RVD17-02	403	405	2	K914697	WH17137887
RVD17-02	405	407	2	K914698	WH17137887
RVD17-02	407	409	2	K914699	WH17137887
RVD17-02	409	411	2	K914701	WH17137887
RVD17-02	411	413	2	K914702	WH17137887
RVD17-02	413	415	2	K914703	WH17137887
RVD17-02	415	417	2	K914704	WH17137887
RVD17-02	417	419	2	K914705	WH17137887
RVD17-02	419	421	2	K914706	WH17137887
RVD17-02	421	423	2	K914707	WH17137887
RVD17-02	423	425	2	K914708	WH17137887
RVD17-02	425	427	2	K914709	WH17137887
RVD17-02	427	429	2	K914711	WH17137887
RVD17-02	429	431	2	K914712	WH17137887
RVD17-02	431	433	2	K914713	WH17137887
RVD17-02	433	435	2	K914714	WH17137887
RVD17-02	435	437	2	K914715	WH17137887
RVD17-02	437	439	2	K914716	WH17137887
RVD17-02	439	441	2	K914717	WH17137887
RVD17-02	441	443	2	K914718	WH17137887
RVD17-02	443	445	2	K914719	WH17137887
RVD17-02	445	447	2	K914721	WH17137887
RVD17-02	447	449	2	K914722	WH17137887
RVD17-02	449	451	2	K914723	WH17137887
RVD17-02	451	453	2	K914724	WH17137887
RVD17-02	453	455	2	K914725	WH17137887
RVD17-02	455	457	2	K914726	WH17137887
RVD17-02	457	459	2	K914727	WH17137887
RVD17-02	459	461	2	K914728	WH17137887
RVD17-02	461	463	2	K914729	WH17137887
RVD17-02	463	465	2	K914731	WH17137887
RVD17-02	465	467	2	K914732	WH17137887
RVD17-02	467	469	2	K914733	WH17137887
RVD17-02	469	471	2	K914734	WH17137887
RVD17-02	471	473	2	K914735	WH17137887
RVD17-02	473	475	2	K914736	WH17137887
RVD17-02	475	477	2	K914737	WH17137887
RVD17-02	477	479	2	K914738	WH17137887
RVD17-02	479	481	2	K914739	WH17137887
RVD17-02	481	483	2	K914741	WH17137887
RVD17-02	483	485	2	K914742	WH17140074
RVD17-02	485	487	2	K914743	WH17140074
RVD17-02	487	489	2	K914744	WH17140074
RVD17-02	489	490.73	1.73	K914745	WH17140074
RVD17-03	12.85	14	1.15	K914746	WH17140074
RVD17-03	14	16	2	K914747	WH17140074
RVD17-03	16	18	2	K914748	WH17140074
RVD17-03	18	20	2	K914749	WH17140074
RVD17-03	20	22	2	K914751	WH17140074
RVD17-03	22	24	2	K914752	WH17140074
RVD17-03	24	26	2	K914753	WH17140074
RVD17-03	26	28	2	K914754	WH17140074
RVD17-03	28	30	2	K914755	WH17140074
RVD17-03	30	32	2	K914756	WH17140074
RVD17-03	32	34	2	K914757	WH17140074
RVD17-03	34	36	2	K914758	WH17140074
RVD17-03	36	37.14	1.14	K914759	WH17140074
RVD17-03	37.14	39	1.86	K914761	WH17140074
RVD17-03	39	41	2	K914762	WH17140074
RVD17-03	41	43	2	K914763	WH17140074
RVD17-03	43	45	2	K914764	WH17140074
RVD17-03	45	47	2	K914765	WH17140074
RVD17-03	47	49	2	K914766	WH17140074
RVD17-03	49	51	2	K914767	WH17140074
RVD17-03	51	53	2	K914768	WH17140074
RVD17-03	53	55	2	K914769	WH17140074
RVD17-03	55	57	2	K914771	WH17140074
RVD17-03	57	59	2	K914772	WH17140074
RVD17-03	59	61	2	K914773	WH17140074
RVD17-03	61	63	2	K914774	WH17140074
RVD17-03	63	65	2	K914775	WH17140074
RVD17-03	65	67	2	K914776	WH17140074
RVD17-03	67	69	2	K914777	WH17140074
RVD17-03	69	70.26	1.26	K914778	WH17140074
RVD17-03	70.26	72	1.74	K914779	WH17140074
RVD17-03	72	74	2	K914781	WH17140074
RVD17-03	74	76	2	K914782	WH17140074
RVD17-03	76	78	2	K914783	WH17140074
RVD17-03	78	80	2	K914784	WH17140074
RVD17-03	80	82	2	K914785	WH17140074
RVD17-03	82	84	2	K914786	WH17140074
RVD17-03	84	86	2	K914787	WH17140074
RVD17-03	86	88	2	K914788	WH17140074
RVD17-03	88	90	2	K914789	WH17140074
RVD17-03	90	92	2	K914791	WH17140074
RVD17-03	92	94	2	K914792	WH17140074
RVD17-03	94	96	2	K914793	WH17140074
RVD17-03	96	98	2	K914794	WH17140074
RVD17-03	98	99	1	K914795	WH17140074

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-03	99	100.58	1.58	K914796	WH17140074
RVD17-03	100.58	102	1.42	K914797	WH17140074
RVD17-03	102	104	2	K914798	WH17140074
RVD17-03	104	106	2	K914799	WH17140074
RVD17-03	106	108	2	K914801	WH17140074
RVD17-03	108	110	2	K914802	WH17140074
RVD17-03	110	112	2	K914803	WH17140074
RVD17-03	112	113	1	K914804	WH17140074
RVD17-03	113	114.3	1.3	K914805	WH17140074
RVD17-03	114.3	116	1.7	K914806	WH17140074
RVD17-03	116	118	2	K914807	WH17140074
RVD17-03	118	120	2	K914808	WH17140074
RVD17-03	120	122	2	K914809	WH17140074
RVD17-03	122	124	2	K914811	WH17140074
RVD17-03	124	126	2	K914812	WH17140074
RVD17-03	126	128	2	K914813	WH17140074
RVD17-03	128	130	2	K914814	WH17140074
RVD17-03	130	132	2	K914815	WH17140074
RVD17-03	132	133	1	K914816	WH17140074
RVD17-03	133	134.37	1.37	K914817	WH17140074
RVD17-03	134.37	136	1.63	K914818	WH17140074
RVD17-03	136	138	2	K914819	WH17140074
RVD17-03	138	140	2	K914821	WH17140074
RVD17-03	140	142	2	K914822	WH17140074
RVD17-03	142	144	2	K914823	WH17140074
RVD17-03	144	146	2	K914824	WH17140074
RVD17-03	146	147.64	1.64	K914825	WH17140074
RVD17-03	147.64	149	1.36	K914826	WH17140074
RVD17-03	149	150	1	K914827	WH17140074
RVD17-03	150	151	1	K914828	WH17140074
RVD17-03	151	152.25	1.25	K914829	WH17140074
RVD17-03	152.25	153.92	1.67	K914831	WH17140074
RVD17-03	153.92	155	1.08	K914832	WH17140074
RVD17-03	155	156.5	1.5	K914833	WH17140074
RVD17-03	156.5	157.48	0.98	K914834	WH17140074
RVD17-03	157.48	158.75	1.27	K914835	WH17140074
RVD17-03	158.75	160	1.25	K914836	WH17140074
RVD17-03	160	161	1	K914837	WH17140074
RVD17-03	161	162	1	K914838	WH17140074
RVD17-03	162	163.09	1.09	K914839	WH17140074
RVD17-03	163.09	165	1.91	K914841	WH17140074
RVD17-03	165	167	2	K914842	WH17140074
RVD17-03	167	168.66	1.66	K914843	WH17140074
RVD17-03	168.66	170	1.34	K914844	WH17140074
RVD17-03	170	171	1	K914845	WH17140074
RVD17-03	171	172	1	K914846	WH17140074
RVD17-03	172	173	1	K914847	WH17140074
RVD17-03	173	174.31	1.31	K914848	WH17140074
RVD17-03	174.31	176	1.69	K914849	WH17140074
RVD17-03	176	178	2	K914851	WH17140074
RVD17-03	178	179.55	1.55	K914852	WH17140074
RVD17-03	179.55	181.36	1.81	K914853	WH17140074
RVD17-03	181.36	183	1.64	K914854	WH17140074
RVD17-03	183	185	2	K914855	WH17140074
RVD17-03	185	187	2	K914856	WH17140074
RVD17-03	187	189	2	K914857	WH17140074
RVD17-03	189	191	2	K914858	WH17140074
RVD17-03	191	192.81	1.81	K914859	WH17140074
RVD17-03	192.81	194.21	1.4	K914861	WH17140074
RVD17-03	194.21	195.59	1.38	K914862	WH17140074
RVD17-03	195.59	197	1.41	K914863	WH17140074
RVD17-03	197	199	2	K914864	WH17140074
RVD17-03	199	201	2	K914865	WH17140074
RVD17-03	201	203	2	K914866	WH17140074
RVD17-03	203	205	2	K914867	WH17140074
RVD17-03	205	207	2	K914868	WH17140074
RVD17-03	207	209	2	K914869	WH17140074
RVD17-03	209	211	2	K914871	WH17140074
RVD17-03	211	213	2	K914872	WH17140074
RVD17-03	213	214.4	1.4	K914873	WH17140074
RVD17-03	214.4	215.4	1	K914874	WH17140074
RVD17-03	215.4	216.5	1.1	K914876	WH17140074
RVD17-03	216.5	217.5	1	K914877	WH17140074
RVD17-03	217.5	218.5	1	K914878	WH17140074
RVD17-03	218.5	219.5	1	K914879	WH17140074
RVD17-03	219.5	220.5	1	K914881	WH17140074
RVD17-03	220.5	221.73	1.23	K914882	WH17140074
RVD17-03	221.73	223	1.27	K914883	WH17140074
RVD17-03	223	225	2	K914884	WH17140074
RVD17-03	225	227	2	K914885	WH17140074
RVD17-03	227	229	2	K914886	WH17140074
RVD17-03	229	231	2	K914887	WH17140074
RVD17-03	231	233	2	K914888	WH17140074
RVD17-03	233	235	2	K914889	WH17140074
RVD17-03	235	236.65	1.65	K914891	WH17140074
RVD17-03	236.65	237.75	1.1	K914892	WH17140074
RVD17-03	237.75	239	1.25	K914894	WH17140074
RVD17-03	239	241	2	K914895	WH17140074
RVD17-03	241	242.98	1.98	K914896	WH17140074
RVD17-03	242.98	244	1.02	K914897	WH17140074
RVD17-03	244	245	1	K914898	WH17140074
RVD17-03	245	246	1	K914899	WH17140074
RVD17-03	246	247	1	K914901	WH17140074
RVD17-03	247	248	1	K914902	WH17140074
RVD17-03	248	249	1	K914903	WH17140074
RVD17-03	249	250.14	1.14	K914904	WH17140074
RVD17-03	250.14	252	1.86	K914905	WH17140074
RVD17-03	252	254	2	K914906	WH17140074
RVD17-03	254	256	2	K914907	WH17140074
RVD17-03	256	258	2	K914908	WH17140074
RVD17-03	258	260	2	K914909	WH17140074
RVD17-03	260	262	2	K914911	WH17140074
RVD17-03	262	264	2	K914912	WH17140074
RVD17-03	264	266	2	K914913	WH17140074
RVD17-03	266	268	2	K914914	WH17140074
RVD17-03	268	269	1	K914915	WH17140074
RVD17-03	269	270	1	K914916	WH17140074
RVD17-03	270	272	2	K914917	WH17140074
RVD17-03	272	274	2	K914918	WH17140074
RVD17-03	274	276	2	K914919	WH17140074
RVD17-03	276	278	2	K914921	WH17140074
RVD17-03	278	280	2	K914922	WH17140074
RVD17-03	280	282	2	K914923	WH17140074
RVD17-03	282	284	2	K914924	WH17140074
RVD17-03	284	286	2	K914925	WH17140074
RVD17-03	286	288	2	K914926	WH17140074
RVD17-03	288	290	2	K914927	WH17140074
RVD17-03	290	292	2	K914928	WH17140074
RVD17-03	292	294	2	K914929	WH17140074
RVD17-03	294	296	2	K914931	WH17140074
RVD17-03	296	298	2	K914932	WH17140074
RVD17-03	298	299	1	K914933	WH17140074
RVD17-03	299	300.67	1.67	K914934	WH17140074
RVD17-03	300.67	302	1.33	K914935	WH17140074
RVD17-03	302	304	2	K914936	WH17140074
RVD17-03	304	306	2	K914937	WH17140074
RVD17-03	306	308	2	K914938	WH17140074
RVD17-03	308	310	2	K914939	WH17140074
RVD17-03	310	312	2	K914941	WH17140074
RVD17-03	312	313	1	K914942	WH17140074
RVD17-03	313	315	2	K914943	WH17140074
RVD17-03	315	317	2	K914945	WH17140074

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-03	317	319	2	K914946	WH17140074
RVD17-03	319	321	2	K914947	WH17140074
RVD17-03	321	323	2	K914948	WH17140074
RVD17-03	323	325	2	K914949	WH17140074
RVD17-03	325	327	2	K914951	WH17140074
RVD17-03	327	329	2	K914952	WH17140074
RVD17-03	329	331	2	K914953	WH17140074
RVD17-03	331	333	2	K914954	WH17140074
RVD17-03	333	335	2	K914955	WH17140074
RVD17-03	335	337	2	K914956	WH17140074
RVD17-03	337	339	2	K914957	WH17140074
RVD17-03	339	341	2	K914958	WH17140074
RVD17-03	341	343	2	K914959	WH17140074
RVD17-03	343	345	2	K914961	WH17140074
RVD17-03	345	347	2	K914962	WH17140074
RVD17-03	347	349	2	K914963	WH17140074
RVD17-03	349	351	2	K914964	WH17140074
RVD17-03	351	353	2	K914965	WH17140074
RVD17-03	353	355	2	K914966	WH17140074
RVD17-03	355	357	2	K914967	WH17140074
RVD17-03	357	359	2	K914968	WH17140074
RVD17-03	359	361	2	K914969	WH17140074
RVD17-03	361	363	2	K914971	WH17140074
RVD17-03	363	365	2	K914972	WH17140074
RVD17-03	365	367	2	K914973	WH17140074
RVD17-03	367	369	2	K914974	WH17140074
RVD17-03	369	371	2	K914975	WH17140074
RVD17-03	371	373	2	K914976	WH17140074
RVD17-03	373	375	2	K914977	WH17140074
RVD17-03	375	376	1	K914978	WH17140074
RVD17-03	376	377.2	1.2	K914979	WH17140074
RVD17-03	377.2	379	1.8	K914981	WH17140074
RVD17-03	379	381	2	K914982	WH17140074
RVD17-03	381	383	2	K914983	WH17140074
RVD17-03	383	385	2	K914984	WH17140074
RVD17-03	385	387	2	K914985	WH17140074
RVD17-03	387	389	2	K914986	WH17140074
RVD17-03	389	391	2	K914987	WH17140074
RVD17-03	391	393	2	K914988	WH17140074
RVD17-03	393	395	2	K914989	WH17140074
RVD17-03	395	397	2	K914991	WH17141963
RVD17-03	397	399	2	K914992	WH17141963
RVD17-03	399	400	1	K914993	WH17141963
RVD17-03	400	401.55	1.55	K914994	WH17141963
RVD17-03	401.55	403	1.45	K914995	WH17141963
RVD17-03	403	405	2	K914996	WH17141963
RVD17-03	405	407	2	K914997	WH17141963
RVD17-03	407	409	2	K914998	WH17141963
RVD17-03	409	411	2	K914999	WH17141963
RVD17-03	411	413	2	K917001	WH17141963
RVD17-03	413	415	2	K917002	WH17141963
RVD17-03	415	417	2	K917003	WH17141963
RVD17-03	417	419	2	K917004	WH17141963
RVD17-03	419	421	2	K917005	WH17141963
RVD17-03	421	423	2	K917006	WH17141963
RVD17-03	423	425	2	K917007	WH17141963
RVD17-03	425	427	2	K917008	WH17141963
RVD17-03	427	429	2	K917009	WH17141963
RVD17-03	429	431	2	K917011	WH17141963
RVD17-03	431	433	2	K917012	WH17141963
RVD17-03	433	435	2	K917013	WH17141963
RVD17-03	435	437	2	K917014	WH17141963
RVD17-03	437	439.05	2.05	K917015	WH17141963
RVD17-03	439.05	441	1.95	K917016	WH17141963
RVD17-03	441	443	2	K917017	WH17141963
RVD17-03	443	445	2	K917018	WH17141963
RVD17-03	445	447	2	K917019	WH17141963
RVD17-03	447	449	2	K917021	WH17141963
RVD17-03	449	451	2	K917022	WH17141963
RVD17-03	451	453	2	K917023	WH17141963
RVD17-03	453	455	2	K917024	WH17141963
RVD17-03	455	457	2	K917025	WH17141963
RVD17-03	457	459	2	K917026	WH17141963
RVD17-03	459	461	2	K917027	WH17141963
RVD17-03	461	463	2	K917028	WH17141963
RVD17-03	463	465	2	K917029	WH17141963
RVD17-03	465	467	2	K917031	WH17141963
RVD17-03	467	469	2	K917032	WH17141963
RVD17-03	469	471	2	K917033	WH17141963
RVD17-03	471	473	2	K917034	WH17141963
RVD17-03	473	475	2	K917035	WH17141963
RVD17-03	475	477	2	K917036	WH17141963
RVD17-03	477	479	2	K917037	WH17141963
RVD17-03	479	481	2	K917038	WH17141963
RVD17-03	481	483	2	K917039	WH17141963
RVD17-03	483	485	2	K917041	WH17141963
RVD17-03	485	487	2	K917042	WH17141963
RVD17-03	487	489	2	K917043	WH17141963
RVD17-03	489	491	2	K917044	WH17141963
RVD17-03	491	493	2	K917045	WH17141963
RVD17-03	493	495	2	K917046	WH17141963
RVD17-03	495	497	2	K917047	WH17141963
RVD17-03	497	499	2	K917048	WH17141963
RVD17-03	499	501	2	K917049	WH17141963
RVD17-03	501	503	2	K917051	WH17141963
RVD17-03	503	504	1	K917052	WH17141963
RVD17-03	504	505.66	1.66	K917053	WH17141963
RVD17-04	2.64	4	1.36	K911682	WH17140072
RVD17-04	4	6	2	K911683	WH17140072
RVD17-04	6	8	2	K911684	WH17140072
RVD17-04	8	9.84	1.84	K911685	WH17140072
RVD17-04	9.84	11.26	1.42	K911686	WH17140072
RVD17-04	11.26	13	1.74	K911687	WH17140072
RVD17-04	13	15	2	K911688	WH17140072
RVD17-04	15	17	2	K911689	WH17140072
RVD17-04	17	19	2	K911691	WH17140072
RVD17-04	19	21	2	K911692	WH17140072
RVD17-04	21	23	2	K911693	WH17140072
RVD17-04	23	25	2	K911694	WH17140072
RVD17-04	25	26.25	1.25	K911695	WH17140072
RVD17-04	26.25	28	1.75	K911696	WH17140072
RVD17-04	28	30	2	K911697	WH17140072
RVD17-04	30	32	2	K911698	WH17140072
RVD17-04	32	34	2	K911699	WH17140072
RVD17-04	34	36	2	K911701	WH17140072
RVD17-04	36	37.68	1.68	K911702	WH17140072
RVD17-04	37.68	39	1.32	K911703	WH17140072
RVD17-04	39	41	2	K911704	WH17140072
RVD17-04	41	42.5	1.5	K911705	WH17140072
RVD17-04	42.5	44	1.5	K911706	WH17140072
RVD17-04	44	45.1	1.1	K911707	WH17140072
RVD17-04	45.1	47	1.9	K911708	WH17140072
RVD17-04	47	49	2	K911709	WH17140072
RVD17-04	49	51	2	K911711	WH17140072
RVD17-04	51	52.54	1.54	K911712	WH17140072
RVD17-04	52.54	54	1.46	K911713	WH17140072
RVD17-04	54	56	2	K911714	WH17140072
RVD17-04	56	57.25	1.25	K911715	WH17140072
RVD17-04	57.25	59	1.75	K911716	WH17140072
RVD17-04	59	61	2	K911717	WH17140072
RVD17-04	61	63	2	K911718	WH17140072
RVD17-04	63	65	2	K911719	WH17140072

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-04	65	67	2	K911721	WH17140072_revised
RVD17-04	67	69	2	K911722	WH17140072_revised
RVD17-04	69	71	2	K911723	WH17140072_revised
RVD17-04	71	73	2	K911724	WH17140072_revised
RVD17-04	73	75	2	K911725	WH17140072_revised
RVD17-04	75	76.81	1.81	K911726	WH17140072_revised
RVD17-04	76.81	78.43	1.62	K911727	WH17140072_revised
RVD17-04	78.43	80	1.57	K911728	WH17140072_revised
RVD17-04	80	81.78	1.78	K911729	WH17140072_revised
RVD17-04	81.78	83.5	1.72	K911731	WH17140072_revised
RVD17-04	83.5	85.48	1.98	K911732	WH17140072_revised
RVD17-04	85.48	87.51	2.03	K911733	WH17140072_revised
RVD17-04	87.51	89	1.49	K911734	WH17140072_revised
RVD17-04	89	90.59	1.59	K911735	WH17140072_revised
RVD17-04	90.59	92.78	2.19	K911736	WH17140072_revised
RVD17-04	92.78	94	1.22	K911737	WH17140072_revised
RVD17-04	94	96	2	K911738	WH17140072_revised
RVD17-04	96	98	2	K911739	WH17140072_revised
RVD17-04	98	100	2	K911741	WH17140072
RVD17-04	100	102	2	K911742	WH17140072
RVD17-04	102	104	2	K911743	WH17140072
RVD17-04	104	106	2	K911744	WH17140072
RVD17-04	106	108	2	K911745	WH17140072
RVD17-04	108	109.05	1.05	K911746	WH17140072
RVD17-04	109.05	110.05	1	K911747	WH17140072
RVD17-04	110.05	112	1.95	K911748	WH17140072
RVD17-04	112	114	2	K911749	WH17140072
RVD17-04	114	116	2	K911751	WH17140072
RVD17-04	116	118	2	K911752	WH17140072
RVD17-04	118	120	2	K911753	WH17140072
RVD17-04	120	120.86	0.86	K911754	WH17140072
RVD17-04	120.86	122	1.14	K911755	WH17140072
RVD17-04	122	124	2	K911756	WH17140072
RVD17-04	124	125	1	K911757	WH17140072
RVD17-04	125	126	1	K911758	WH17140072
RVD17-04	126	128.02	2.02	K911759	WH17140072
RVD17-04	128.02	130	1.98	K911761	WH17140072
RVD17-04	130	132	2	K911762	WH17140072
RVD17-04	132	133.34	1.34	K911763	WH17140072
RVD17-04	133.34	135	1.66	K911764	WH17140072
RVD17-04	135	137	2	K911765	WH17140072
RVD17-04	137	139	2	K911766	WH17140072
RVD17-04	139	141	2	K911767	WH17140072
RVD17-04	141	143	2	K911768	WH17140072
RVD17-04	143	145	2	K911769	WH17140072
RVD17-04	145	147	2	K911771	WH17140072
RVD17-04	147	149	2	K911772	WH17140072
RVD17-04	149	151	2	K911773	WH17140072
RVD17-04	151	153	2	K911774	WH17140072
RVD17-04	153	155	2	K911775	WH17140072
RVD17-04	155	157	2	K911776	WH17140072
RVD17-04	157	159	2	K911777	WH17140072
RVD17-04	159	161	2	K911778	WH17140072
RVD17-04	161	163	2	K911779	WH17140072
RVD17-04	163	164	1	K911781	WH17140072
RVD17-04	164	165.35	1.35	K911782	WH17140072
RVD17-04	165.35	167	1.65	K911783	WH17140072
RVD17-04	167	169	2	K911784	WH17140072
RVD17-04	169	171	2	K911785	WH17140072
RVD17-04	171	173	2	K911786	WH17140072
RVD17-04	173	175	2	K911787	WH17140072
RVD17-04	175	177	2	K911788	WH17140072
RVD17-04	177	179	2	K911789	WH17140072
RVD17-04	179	181	2	K911791	WH17140072
RVD17-04	181	182.4	1.4	K911792	WH17140072
RVD17-04	182.4	184	1.6	K911793	WH17140072
RVD17-04	184	186	2	K911794	WH17140072
RVD17-04	186	187.54	1.54	K911795	WH17140072
RVD17-04	187.54	189	1.46	K911796	WH17140072
RVD17-04	189	191	2	K911797	WH17140072
RVD17-04	191	192	1	K911798	WH17140072
RVD17-04	192	194	2	K911799	WH17140072
RVD17-04	194	195.17	1.17	K911801	WH17140072
RVD17-04	195.17	197	1.83	K911802	WH17140072
RVD17-04	197	199	2	K911803	WH17140072
RVD17-04	199	201	2	K911804	WH17140072
RVD17-04	201	203	2	K911805	WH17140072
RVD17-04	203	205	2	K911806	WH17140072
RVD17-04	205	207.2	2.2	K911807	WH17140072
RVD17-04	207.2	209	1.8	K911808	WH17140072
RVD17-04	209	211	2	K911809	WH17140072
RVD17-04	211	213	2	K911811	WH17140072
RVD17-04	213	215	2	K911812	WH17140072
RVD17-04	215	217	2	K911813	WH17140072
RVD17-04	217	219	2	K911814	WH17140072
RVD17-04	219	221	2	K911815	WH17140072
RVD17-04	221	223	2	K911816	WH17140072
RVD17-04	223	225	2	K911817	WH17140072
RVD17-04	225	227	2	K911818	WH17140072
RVD17-04	227	228.3	1.3	K911819	WH17140072
RVD17-04	228.3	230	1.7	K911821	WH17140072
RVD17-04	230	232	2	K911822	WH17140072
RVD17-04	232	233.07	1.07	K911823	WH17140072
RVD17-04	233.07	235	1.93	K911824	WH17140072
RVD17-04	235	236.79	1.79	K911825	WH17140072
RVD17-04	236.79	238	1.21	K911826	WH17140072
RVD17-04	238	240	2	K911827	WH17140072
RVD17-04	240	242	2	K911828	WH17140072
RVD17-04	242	244	2	K911829	WH17140072
RVD17-04	244	246	2	K911831	WH17140072
RVD17-04	246	248	2	K911832	WH17140072
RVD17-04	248	250	2	K911833	WH17140072
RVD17-04	250	252	2	K911834	WH17140072
RVD17-04	252	254	2	K911835	WH17140072
RVD17-04	254	256	2	K911836	WH17140072
RVD17-04	256	258	2	K911837	WH17140072
RVD17-04	258	260	2	K911838	WH17140072
RVD17-04	260	261.66	1.66	K911839	WH17140072
RVD17-04	261.66	263	1.34	K911843	WH17140072
RVD17-04	263	264	1	K911844	WH17140072
RVD17-04	264	265.35	1.35	K911845	WH17140072
RVD17-04	265.35	267	1.65	K911846	WH17140072
RVD17-04	267	268.5	1.5	K911847	WH17140072
RVD17-04	268.5	269.95	1.45	K911848	WH17140072
RVD17-04	269.95	271	1.05	K911849	WH17140072
RVD17-04	271	273	2	K911851	WH17140072
RVD17-04	273	275	2	K911852	WH17140072
RVD17-04	275	277	2	K911853	WH17140072
RVD17-04	277	279	2	K911854	WH17140072
RVD17-04	279	281	2	K911855	WH17140072
RVD17-04	281	283	2	K911856	WH17140072
RVD17-04	283	285	2	K911857	WH17140072
RVD17-04	285	287	2	K911858	WH17140072
RVD17-04	287	289	2	K911859	WH17140072
RVD17-04	289	291	2	K911861	WH17140072
RVD17-04	291	293	2	K911862	WH17140072
RVD17-04	293	295	2	K911863	WH17140072
RVD17-04	295	297	2	K911864	WH17140072
RVD17-04	297	299	2	K911865	WH17140072
RVD17-04	299	300.67	1.67	K911866	WH17140072
RVD17-04	300.67	302	1.33	K911867	WH17140072
RVD17-04	302	304	2	K911868	WH17140072

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-04	304	306	2	K911869	WH17140072
RVD17-04	306	308	2	K911871	WH17140072
RVD17-04	308	309	1	K911872	WH17140072
RVD17-04	309	310.15	1.15	K911873	WH17140072
RVD17-04	310.15	312	1.85	K911874	WH17140072
RVD17-04	312	313	1	K911875	WH17140072
RVD17-04	313	314.74	1.74	K911876	WH17140072
RVD17-04	314.74	316.62	1.88	K911877	WH17140072
RVD17-04	316.62	317.8	1.18	K911878	WH17140072
RVD17-04	317.8	319.2	1.4	K911879	WH17140072
RVD17-04	319.2	320.04	0.84	K911881	WH17140072
RVD17-04	320.04	321	0.96	K911882	WH17140072
RVD17-04	321	323.09	2.09	K911883	WH17140072
RVD17-04	323.09	325	1.91	K911884	WH17140072
RVD17-04	325	327	2	K911885	WH17140072
RVD17-04	327	328.36	1.36	K911886	WH17140072
RVD17-04	328.36	330.05	1.69	K911887	WH17140072
RVD17-04	330.05	331.98	1.93	K911888	WH17141963
RVD17-04	331.98	333.08	1.1	K911889	WH17141963
RVD17-04	333.08	335.08	2	K911891	WH17141963_revised
RVD17-04	335.08	337	1.92	K911892	WH17141963_revised
RVD17-04	337	339	2	K911893	WH17141963_revised
RVD17-04	339	341	2	K911894	WH17141963_revised
RVD17-04	341	343	2	K911895	WH17141963_revised
RVD17-04	343	345	2	K911896	WH17141963_revised
RVD17-04	345	345.97	0.97	K911897	WH17141963_revised
RVD17-04	345.97	347.33	1.36	K911898	WH17141963_revised
RVD17-04	347.33	349	1.67	K911899	WH17141963_revised
RVD17-04	349	351	2	K911901	WH17141963_revised
RVD17-04	351	353	2	K911902	WH17141963_revised
RVD17-04	353	355	2	K911903	WH17141963_revised
RVD17-04	355	356.22	1.22	K911904	WH17141963_revised
RVD17-04	356.22	358	1.78	K911905	WH17141963_revised
RVD17-04	358	360	2	K911906	WH17141963_revised
RVD17-04	360	362	2	K911907	WH17141963_revised
RVD17-04	362	363.28	1.28	K911908	WH17141963_revised
RVD17-04	363.28	365	1.72	K911909	WH17141963_revised
RVD17-04	365	367	2	K911911	WH17141963
RVD17-04	367	368.55	1.55	K911912	WH17141963
RVD17-04	368.55	370	1.45	K911913	WH17141963
RVD17-04	370	372	2	K911914	WH17141963
RVD17-04	372	374	2	K911915	WH17141963
RVD17-04	374	375	1	K911916	WH17141963
RVD17-04	375	376.97	1.97	K911917	WH17141963
RVD17-04	376.97	379	2.03	K911918	WH17141963
RVD17-04	379	380.3	1.3	K911919	WH17141963
RVD17-04	380.3	382	1.7	K911921	WH17141963
RVD17-04	382	383.2	1.2	K911922	WH17141963
RVD17-04	383.2	384.29	1.09	K911923	WH17141963
RVD17-04	384.29	386.29	2	K911924	WH17141963
RVD17-04	386.29	388.2	1.91	K911925	WH17141963
RVD17-04	388.2	390.2	2	K911926	WH17141963
RVD17-04	390.2	392.08	1.88	K911927	WH17141963
RVD17-04	392.08	393.97	1.89	K911928	WH17141963
RVD17-04	393.97	395.32	1.35	K911929	WH17141963
RVD17-04	395.32	396.67	1.35	K911931	WH17141963_revised
RVD17-04	396.67	397.89	1.22	K911932	WH17141963_revised
RVD17-04	397.89	399.1	1.21	K911933	WH17141963_revised
RVD17-04	399.1	399.58	0.48	K911934	WH17141963_revised
RVD17-04	399.58	401	1.42	K911935	WH17141963_revised
RVD17-04	401	403	2	K911936	WH17141963_revised
RVD17-04	403	405	2	K911937	WH17141963_revised
RVD17-04	405	407	2	K911938	WH17141963_revised
RVD17-04	407	408.43	1.43	K911939	WH17141963_revised
RVD17-04	408.43	409.51	1.08	K911941	WH17141963_revised
RVD17-04	409.51	411.48	1.97	K911942	WH17141963_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-05	101	103	2	I025752	WH17144068
RVD17-05	103	105	2	I025753	WH17144068
RVD17-05	105	107	2	I025754	WH17144068
RVD17-05	107	108	1	I025755	WH17144068
RVD17-05	108	109.25	1.25	I025756	WH17144068
RVD17-05	109.25	111.25	2	I025757	WH17144068
RVD17-05	111.25	113	1.75	I025758	WH17144068
RVD17-05	113	115	2	I025759	WH17144068
RVD17-05	115	117	2	I025761	WH17144068
RVD17-05	117	119	2	I025762	WH17144068
RVD17-05	119	121	2	I025763	WH17144068
RVD17-05	121	123	2	I025764	WH17144068
RVD17-05	123	125	2	I025765	WH17144068
RVD17-05	125	127	2	I025766	WH17144068
RVD17-05	127	129	2	I025767	WH17144068
RVD17-05	129	131	2	I025768	WH17144068
RVD17-05	131	133	2	I025769	WH17144068
RVD17-05	133	135	2	I025771	WH17144068
RVD17-05	135	136.95	1.95	I025772	WH17144068
RVD17-05	136.95	138.88	1.93	I025773	WH17144068
RVD17-05	138.88	140.88	2	I025774	WH17144068
RVD17-05	140.88	142.88	2	I025775	WH17144068
RVD17-05	142.88	144.88	2	I025776	WH17144068
RVD17-05	144.88	146.86	1.98	I025777	WH17144068
RVD17-05	146.86	148.86	2	I025778	WH17144068
RVD17-05	148.86	150.34	1.48	I025779	WH17144068
RVD17-05	150.34	151.8	1.46	I025781	WH17144068
RVD17-05	151.8	153.8	2	I025782	WH17144068
RVD17-05	153.8	155.8	2	I025783	WH17144068
RVD17-05	155.8	157.8	2	I025784	WH17144068
RVD17-05	157.8	159.84	2.04	I025785	WH17144068
RVD17-05	159.84	161.84	2	I025786	WH17144068
RVD17-05	161.84	163.84	2	I025787	WH17144068
RVD17-05	163.84	165.9	2.06	I025788	WH17144068
RVD17-05	165.9	167.9	2	I025789	WH17144068
RVD17-05	167.9	169.83	1.93	I025791	WH17144068
RVD17-05	169.83	171.9	2.07	I025792	WH17144068
RVD17-05	171.9	173.9	2	I025793	WH17144068
RVD17-05	173.9	175.94	2.04	I025794	WH17144068
RVD17-05	175.94	178	2.06	I025795	WH17144068
RVD17-05	178	180	2	I025796	WH17144068
RVD17-05	180	182	2	I025797	WH17144068
RVD17-05	182	183	1	I025798	WH17144068
RVD17-05	183	184.4	1.4	I025799	WH17144068
RVD17-05	184.4	186	1.6	I025801	WH17144068
RVD17-05	186	188	2	I025802	WH17144068
RVD17-05	188	190	2	I025803	WH17144068
RVD17-05	190	192	2	I025804	WH17144068
RVD17-05	192	194	2	I025805	WH17144068
RVD17-05	194	196	2	I025806	WH17144068
RVD17-05	196	198	2	I025807	WH17144068
RVD17-05	198	200	2	I025808	WH17144068
RVD17-05	200	202	2	I025809	WH17144068
RVD17-05	202	204	2	I025811	WH17144068
RVD17-05	204	206	2	I025812	WH17144068
RVD17-05	206	208	2	I025813	WH17144068
RVD17-05	208	210	2	I025814	WH17144068
RVD17-05	210	212	2	I025815	WH17144068
RVD17-05	212	213.08	1.08	I025816	WH17144068
RVD17-05	213.08	215	1.92	I025817	WH17144068
RVD17-05	215	217	2	I025818	WH17144068
RVD17-05	217	218	1	I025819	WH17144068
RVD17-05	218	219.27	1.27	I025821	WH17144068
RVD17-05	219.27	221	1.73	I025822	WH17144068
RVD17-05	221	223	2	I025823	WH17144068
RVD17-05	223	224.77	1.77	I025824	WH17144068

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-05	224.77	226	1.23	I025825	WH17144068
RVD17-05	226	228	2	I025826	WH17144068
RVD17-05	228	230	2	I025827	WH17144068
RVD17-05	230	232	2	I025828	WH17144068
RVD17-05	232	233.22	1.22	I025829	WH17144068
RVD17-05	233.22	235.06	1.84	I025831	WH17144068
RVD17-05	235.06	236	0.94	I025832	WH17144068
RVD17-05	236	237	1	I025833	WH17144068
RVD17-05	237	238.38	1.38	I025834	WH17144068
RVD17-05	238.38	239.8	1.42	I025835	WH17144068
RVD17-05	239.8	240.8	1	I025836	WH17144068
RVD17-05	240.8	241.8	1	I025837	WH17144068
RVD17-05	241.8	243.71	1.91	I025838	WH17144068
RVD17-05	243.71	245.71	2	I025839	WH17144068
RVD17-05	245.71	247.71	2	I025841	WH17144068
RVD17-05	247.71	249.57	1.86	I025842	WH17144068
RVD17-05	249.57	251.57	2	I025843	WH17144068
RVD17-05	251.57	253.57	2	I025844	WH17144068
RVD17-05	253.57	254.95	1.38	I025845	WH17144068
RVD17-05	254.95	255.95	1	I025846	WH17144068
RVD17-05	255.95	257.95	2	I025847	WH17144068
RVD17-05	257.95	259.95	2	I025848	WH17144068
RVD17-05	259.95	262.01	2.06	I025849	WH17144068
RVD17-05	262.01	264	1.99	I025851	WH17144068
RVD17-05	264	266	2	I025852	WH17144068
RVD17-05	266	267.91	1.91	I025853	WH17144068
RVD17-05	267.91	269.86	1.95	I025854	WH17144068
RVD17-05	269.86	271.86	2	I025855	WH17144068
RVD17-05	271.86	273.38	1.52	I025856	WH17144068
RVD17-05	273.38	274.94	1.56	I025857	WH17144068
RVD17-05	274.94	276.94	2	I025858	WH17144068
RVD17-05	276.94	278.94	2	I025859	WH17144068
RVD17-05	278.94	280.94	2	I025861	WH17144068
RVD17-05	280.94	282.6	1.66	I025862	WH17144068
RVD17-05	282.6	284.6	2	I025863	WH17144068
RVD17-05	284.6	286	1.4	I025864	WH17144068
RVD17-05	286	288	2	I025865	WH17144068
RVD17-05	288	290	2	I025866	WH17144068
RVD17-05	290	292	2	I025867	WH17144068
RVD17-05	292	294	2	I025868	WH17144068
RVD17-05	294	296	2	I025869	WH17144068
RVD17-05	296	298	2	I025871	WH17144068
RVD17-05	298	300	2	I025872	WH17144068
RVD17-05	300	302	2	I025873	WH17144068
RVD17-05	302	304	2	I025874	WH17144068
RVD17-05	304	306	2	I025875	WH17144068
RVD17-05	306	308	2	I025876	WH17144068
RVD17-05	308	310	2	I025877	WH17144068
RVD17-05	310	312	2	I025878	WH17144068
RVD17-05	312	314	2	I025879	WH17144068
RVD17-05	314	316	2	I025881	WH17144068
RVD17-05	316	318	2	I025882	WH17144068
RVD17-05	318	320	2	I025883	WH17144068
RVD17-05	320	322	2	I025884	WH17144068
RVD17-05	322	324	2	I025885	WH17144068
RVD17-05	324	326	2	I025886	WH17144068
RVD17-05	326	328	2	I025887	WH17144068
RVD17-05	328	330	2	I025888	WH17144068
RVD17-05	330	332	2	I025889	WH17144068
RVD17-05	332	333	1	I025891	WH17144068
RVD17-05	333	334.27	1.27	I025892	WH17144068
RVD17-05	334.27	335.29	1.02	I025893	WH17144068
RVD17-05	335.29	337	1.71	I025894	WH17144068
RVD17-05	337	339	2	I025895	WH17144068
RVD17-05	339	341	2	I025896	WH17144068
RVD17-05	341	343	2	I025897	WH17144068

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-05	343	344.2	1.2	I025898	WH17144068
RVD17-05	344.2	345.95	1.75	I025899	WH17144068
RVD17-05	345.95	347.95	2	I025901	WH17144068
RVD17-05	347.95	349.46	1.51	I025902	WH17144068
RVD17-05	349.46	350.78	1.32	I025903	WH17144068
RVD17-05	350.78	351.81	1.03	I025904	WH17144068
RVD17-05	351.81	353.8	1.99	I025905	WH17144068
RVD17-05	353.8	355.8	2	I025906	WH17144068
RVD17-05	355.8	357	1.2	I025907	WH17144068
RVD17-05	357	359	2	I025908	WH17144068
RVD17-05	359	361	2	I025909	WH17144068
RVD17-05	361	363	2	I025911	WH17144068
RVD17-05	363	364	1	I025912	WH17144068
RVD17-05	364	365.76	1.76	I025913	WH17144068
RVD17-05	365.76	367	1.24	I025914	WH17144068
RVD17-05	367	369	2	I025915	WH17144068
RVD17-05	369	371	2	I025916	WH17144068
RVD17-05	371	373.1	2.1	I025917	WH17144068
RVD17-05	373.1	375	1.9	I025918	WH17144068
RVD17-05	375	376	1	I025919	WH17144068
RVD17-05	376	377.95	1.95	I025921	WH17144068
RVD17-05	377.95	380	2.05	I025922	WH17144068
RVD17-05	380	382	2	I025923	WH17144068
RVD17-05	382	384	2	I025924	WH17144068
RVD17-05	384	386	2	I025925	WH17144068
RVD17-05	386	388	2	I025926	WH17144068
RVD17-05	388	390	2	I025927	WH17144068
RVD17-05	390	392	2	I025928	WH17144068
RVD17-05	392	394	2	I025929	WH17144068
RVD17-05	394	396	2	I025931	WH17144068
RVD17-05	396	398	2	I025932	WH17144068
RVD17-05	398	399.29	1.29	I025933	WH17144068
RVD17-05	3.49	5	1.51	K911943	WH17141963_revised
RVD17-05	5	7	2	K911944	WH17141963_revised
RVD17-05	7	9	2	K911945	WH17141963_revised
RVD17-05	9	11	2	K911946	WH17141963_revised
RVD17-05	11	13	2	K911947	WH17141963_revised
RVD17-05	13	15	2	K911948	WH17141963_revised
RVD17-05	15	17	2	K911949	WH17141963_revised
RVD17-05	17	19	2	K911951	WH17141963
RVD17-05	19	21	2	K911952	WH17141963
RVD17-05	21	23	2	K911953	WH17141963
RVD17-05	23	25	2	K911954	WH17141963
RVD17-05	25	26	1	K911955	WH17141963
RVD17-05	26	27.68	1.68	K911956	WH17141963
RVD17-05	27.68	28.68	1	K911957	WH17141963
RVD17-05	28.68	30	1.32	K911958	WH17141963
RVD17-05	30	32	2	K911959	WH17141963
RVD17-05	32	34	2	K911961	WH17141963
RVD17-05	34	36	2	K911962	WH17141963
RVD17-05	36	38	2	K911963	WH17141963
RVD17-05	38	40	2	K911964	WH17141963
RVD17-05	40	42	2	K911965	WH17141963
RVD17-05	42	43.17	1.17	K911966	WH17141963
RVD17-05	43.17	45	1.83	K911967	WH17141963
RVD17-05	45	47	2	K911968	WH17141963
RVD17-05	47	49	2	K911969	WH17141963
RVD17-05	49	51	2	K911971	WH17141963
RVD17-05	51	53	2	K911972	WH17141963
RVD17-05	53	55	2	K911973	WH17141963
RVD17-05	55	57	2	K911974	WH17141963
RVD17-05	57	59	2	K911975	WH17141963
RVD17-05	59	61	2	K911976	WH17141963
RVD17-05	61	63	2	K911977	WH17141963
RVD17-05	63	65	2	K911978	WH17141963
RVD17-05	65	67	2	K911979	WH17141963

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-05	67	69	2	K911981	WH17141963
RVD17-05	69	71	2	K911982	WH17141963
RVD17-05	71	73	2	K911983	WH17141963
RVD17-05	73	74	1	K911984	WH17141963
RVD17-05	74	76	2	K911985	WH17141963
RVD17-05	76	77.87	1.87	K911986	WH17141963
RVD17-05	77.87	79.87	2	K911987	WH17141963
RVD17-05	79.87	81.87	2	K911988	WH17141963
RVD17-05	81.87	83.87	2	K911989	WH17141963
RVD17-05	83.87	85.87	2	K911991	WH17141963
RVD17-05	85.87	87	1.13	K911992	WH17141963
RVD17-05	87	89	2	K911993	WH17141963
RVD17-05	89	91	2	K911994	WH17141963
RVD17-05	91	93	2	K911995	WH17141963
RVD17-05	93	95	2	K911996	WH17141963
RVD17-05	95	97	2	K911997	WH17141963
RVD17-05	97	99	2	K911998	WH17144061
RVD17-05	99	101	2	K911999	WH17144061
RVD17-06	3.05	7	3.95	K917054	WH17141963
RVD17-06	7	9	2	K917055	WH17141963
RVD17-06	9	10.36	1.36	K917056	WH17141963
RVD17-06	10.36	12	1.64	K917057	WH17141963
RVD17-06	12	14	2	K917058	WH17141963
RVD17-06	14	15	1	K917059	WH17141963
RVD17-06	15	16.75	1.75	K917061	WH17141963
RVD17-06	16.75	17.69	0.94	K917062	WH17141963
RVD17-06	17.69	19	1.31	K917063	WH17141963
RVD17-06	19	21	2	K917064	WH17144061
RVD17-06	21	23	2	K917065	WH17144061
RVD17-06	23	24	1	K917066	WH17144061
RVD17-06	24	25.56	1.56	K917067	WH17144061
RVD17-06	25.56	26.65	1.09	K917068	WH17144061
RVD17-06	26.65	28	1.35	K917069	WH17144061
RVD17-06	28	30	2	K917071	WH17144061
RVD17-06	30	32	2	K917072	WH17144061
RVD17-06	32	34	2	K917073	WH17144061
RVD17-06	34	36	2	K917074	WH17144061
RVD17-06	36	38	2	K917075	WH17144061
RVD17-06	38	40	2	K917076	WH17144061
RVD17-06	40	42	2	K917077	WH17144061
RVD17-06	42	44	2	K917078	WH17144061
RVD17-06	44	46	2	K917079	WH17144061
RVD17-06	46	48	2	K917081	WH17144061
RVD17-06	48	50	2	K917082	WH17144061
RVD17-06	50	52	2	K917083	WH17144061
RVD17-06	52	54	2	K917084	WH17144061
RVD17-06	54	56	2	K917085	WH17144061
RVD17-06	56	58	2	K917086	WH17144061
RVD17-06	58	60	2	K917087	WH17144061
RVD17-06	60	62	2	K917088	WH17144061
RVD17-06	62	64	2	K917089	WH17144061
RVD17-06	64	66	2	K917091	WH17144061
RVD17-06	66	68	2	K917092	WH17144061
RVD17-06	68	70	2	K917093	WH17144061
RVD17-06	70	72	2	K917094	WH17144061
RVD17-06	72	73	1	K917095	WH17144061
RVD17-06	73	74.4	1.4	K917096	WH17144061
RVD17-06	74.4	76	1.6	K917097	WH17144061
RVD17-06	76	78	2	K917098	WH17144061
RVD17-06	78	80	2	K917099	WH17144061
RVD17-06	80	82	2	K917101	WH17144061
RVD17-06	82	84	2	K917102	WH17144061
RVD17-06	84	86	2	K917103	WH17144061
RVD17-06	86	88	2	K917104	WH17144061
RVD17-06	88	89	1	K917105	WH17144061
RVD17-06	89	90.15	1.15	K917106	WH17144061
RVD17-06	90.15	92	1.85	K917107	WH17144061
RVD17-06	92	94	2	K917108	WH17144061
RVD17-06	94	95.5	1.5	K917109	WH17144061
RVD17-06	95.5	97	1.5	K917111	WH17144061
RVD17-06	97	99	2	K917112	WH17144061
RVD17-06	99	101	2	K917113	WH17144061
RVD17-06	101	103	2	K917114	WH17144061
RVD17-06	103	105	2	K917115	WH17144061
RVD17-06	105	107	2	K917116	WH17144061
RVD17-06	107	109	2	K917117	WH17144061
RVD17-06	109	111	2	K917118	WH17144061
RVD17-06	111	113	2	K917119	WH17144061
RVD17-06	113	113.99	0.99	K917121	WH17144061
RVD17-06	113.99	116	2.01	K917122	WH17144061
RVD17-06	116	118	2	K917123	WH17144061
RVD17-06	118	120	2	K917124	WH17144061
RVD17-06	120	122	2	K917125	WH17144061
RVD17-06	122	124	2	K917126	WH17144061
RVD17-06	124	126	2	K917127	WH17144061
RVD17-06	126	127	1	K917128	WH17144061
RVD17-06	127	127.92	0.92	K917129	WH17144061
RVD17-06	127.92	129	1.08	K917131	WH17144061
RVD17-06	129	131	2	K917132	WH17144061
RVD17-06	131	133	2	K917133	WH17144061
RVD17-06	133	135	2	K917134	WH17144061
RVD17-06	135	136.32	1.32	K917135	WH17144061
RVD17-06	136.32	138	1.68	K917136	WH17144061
RVD17-06	138	140	2	K917137	WH17144061
RVD17-06	140	142	2	K917138	WH17144061
RVD17-06	142	144	2	K917139	WH17144061
RVD17-06	144	146	2	K917141	WH17144061
RVD17-06	146	148	2	K917142	WH17144061
RVD17-06	148	150	2	K917143	WH17144061
RVD17-06	150	152	2	K917144	WH17144061
RVD17-06	152	153	1	K917145	WH17144061
RVD17-06	153	154.3	1.3	K917146	WH17144061
RVD17-06	154.3	156	1.7	K917147	WH17144061
RVD17-06	156	158	2	K917148	WH17144061
RVD17-06	158	160	2	K917149	WH17144061
RVD17-06	160	162	2	K917151	WH17144061
RVD17-06	162	164	2	K917152	WH17144061
RVD17-06	164	165.5	1.5	K917153	WH17144061
RVD17-06	165.5	167.5	2	K917154	WH17144061
RVD17-06	167.5	169	1.5	K917155	WH17144061
RVD17-06	169	171	2	K917156	WH17144061
RVD17-06	171	173	2	K917157	WH17144061
RVD17-06	173	175	2	K917158	WH17144061
RVD17-06	175	177	2	K917159	WH17144061
RVD17-06	177	179	2	K917161	WH17144061
RVD17-06	179	181	2	K917162	WH17144061
RVD17-06	181	183	2	K917163	WH17144061
RVD17-06	183	184.5	1.5	K917164	WH17144061
RVD17-06	184.5	186	1.5	K917165	WH17144061
RVD17-06	186	188	2	K917166	WH17144061
RVD17-06	188	190	2	K917167	WH17144061
RVD17-06	190	192	2	K917168	WH17144061
RVD17-06	192	194	2	K917169	WH17144061
RVD17-06	194	196	2	K917171	WH17144061
RVD17-06	196	198	2	K917172	WH17144061
RVD17-06	198	200	2	K917173	WH17144061
RVD17-06	200	202	2	K917174	WH17144061
RVD17-06	202	204	2	K917175	WH17144061
RVD17-06	204	206	2	K917176	WH17144061
RVD17-06	206	208	2	K917177	WH17144061
RVD17-06	208	210	2	K917178	WH17144061
RVD17-06	210	212	2	K917179	WH17144061

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-06	212	214	2	K917181	WH17144061
RVD17-06	214	216	2	K917182	WH17144061
RVD17-06	216	218	2	K917183	WH17144061
RVD17-06	218	220	2	K917184	WH17144061
RVD17-06	220	222	2	K917185	WH17144061
RVD17-06	222	223.66	1.66	K917186	WH17144061
RVD17-06	223.66	225	1.34	K917187	WH17144061
RVD17-06	225	227	2	K917188	WH17144061
RVD17-06	227	229	2	K917189	WH17144061
RVD17-06	229	231	2	K917191	WH17144061
RVD17-06	231	233	2	K917192	WH17144061
RVD17-06	233	234.97	1.97	K917193	WH17144061
RVD17-06	234.97	237	2.03	K917194	WH17144061
RVD17-06	237	239	2	K917195	WH17144061
RVD17-06	239	241	2	K917196	WH17144061
RVD17-06	241	243	2	K917197	WH17144061
RVD17-06	243	244	1	K917198	WH17144061
RVD17-06	244	245.36	1.36	K917199	WH17144061
RVD17-06	245.36	246.86	1.5	K917201	WH17144061
RVD17-06	246.86	248	1.14	K917202	WH17144061
RVD17-06	248	250	2	K917203	WH17144061
RVD17-06	250	252	2	K917204	WH17144061
RVD17-06	252	254	2	K917205	WH17144061
RVD17-06	254	256	2	K917206	WH17144061
RVD17-06	256	258	2	K917207	WH17144061
RVD17-06	258	260	2	K917208	WH17144061
RVD17-06	260	262	2	K917209	WH17144061
RVD17-06	262	264	2	K917211	WH17144061
RVD17-06	264	266	2	K917212	WH17144061
RVD17-06	266	268	2	K917213	WH17144061
RVD17-06	268	270	2	K917214	WH17144061
RVD17-06	270	272	2	K917215	WH17144061
RVD17-06	272	274	2	K917216	WH17144061
RVD17-06	274	276	2	K917217	WH17144061
RVD17-06	276	278	2	K917218	WH17144061
RVD17-06	278	280	2	K917219	WH17144061
RVD17-06	280	282	2	K917221	WH17144061
RVD17-06	282	284	2	K917222	WH17144061
RVD17-06	284	286	2	K917223	WH17144061
RVD17-06	286	288	2	K917224	WH17144061
RVD17-06	288	290	2	K917225	WH17147702
RVD17-06	290	292	2	K917226	WH17147702
RVD17-06	292	294	2	K917227	WH17147702
RVD17-06	294	296	2	K917228	WH17147702
RVD17-06	296	298	2	K917229	WH17147702
RVD17-06	298	300	2	K917231	WH17147702_revised
RVD17-06	300	302	2	K917232	WH17147702_revised
RVD17-06	302	304	2	K917233	WH17147702_revised
RVD17-06	304	306	2	K917234	WH17147702_revised
RVD17-06	306	308	2	K917235	WH17147702_revised
RVD17-06	308	310	2	K917236	WH17147702_revised
RVD17-06	310	312	2	K917237	WH17147702_revised
RVD17-06	312	313.5	1.5	K917238	WH17147702_revised
RVD17-06	313.5	315	1.5	K917239	WH17147702_revised
RVD17-06	315	317	2	K917241	WH17147702_revised
RVD17-06	317	319	2	K917242	WH17147702_revised
RVD17-06	319	321	2	K917243	WH17147702_revised
RVD17-06	321	323	2	K917244	WH17147702_revised
RVD17-06	323	325	2	K917245	WH17147702_revised
RVD17-06	325	327	2	K917246	WH17147702_revised
RVD17-06	327	329	2	K917247	WH17147702_revised
RVD17-06	329	331	2	K917248	WH17147702_revised
RVD17-06	331	333	2	K917249	WH17147702_revised
RVD17-06	333	335	2	K917251	WH17147702
RVD17-06	335	337	2	K917252	WH17147702
RVD17-06	337	339	2	K917253	WH17147702
RVD17-06	339	341	2	K917254	WH17147702
RVD17-06	341	343	2	K917255	WH17147702
RVD17-06	343	345	2	K917256	WH17147702
RVD17-06	345	347	2	K917257	WH17147702
RVD17-06	347	349	2	K917258	WH17147702
RVD17-06	349	351	2	K917259	WH17147702
RVD17-06	351	353	2	K917261	WH17147702
RVD17-06	353	355	2	K917262	WH17147702
RVD17-06	355	357	2	K917263	WH17147702
RVD17-06	357	359	2	K917264	WH17147702
RVD17-06	359	361	2	K917265	WH17147702
RVD17-06	361	363	2	K917266	WH17147702
RVD17-06	363	365	2	K917267	WH17147702
RVD17-06	365	366	1	K917268	WH17147702
RVD17-06	366	367.28	1.28	K917269	WH17147702
RVD17-07	1.2	3	1.8	K917271	WH17147702
RVD17-07	3	5	2	K917272	WH17147702
RVD17-07	5	7	2	K917273	WH17147702
RVD17-07	7	9	2	K917274	WH17147702
RVD17-07	9	11	2	K917275	WH17147702
RVD17-07	11	13	2	K917276	WH17147702
RVD17-07	13	15	2	K917277	WH17147702
RVD17-07	15	17	2	K917278	WH17147702
RVD17-07	17	19	2	K917279	WH17147702
RVD17-07	19	21	2	K917281	WH17147702_revised
RVD17-07	21	23	2	K917282	WH17147702_revised
RVD17-07	23	25	2	K917283	WH17147702_revised
RVD17-07	25	26	1	K917284	WH17147702_revised
RVD17-07	26	27	1	K917285	WH17147702_revised
RVD17-07	27	29	2	K917286	WH17147702_revised
RVD17-07	29	31	2	K917287	WH17147702_revised
RVD17-07	31	33	2	K917288	WH17147702_revised
RVD17-07	33	35	2	K917289	WH17147702_revised
RVD17-07	35	37	2	K917291	WH17149537
RVD17-07	37	39	2	K917292	WH17149537
RVD17-07	39	41	2	K917293	WH17149537
RVD17-07	41	42	1	K917294	WH17149537
RVD17-07	42	43.61	1.61	K917295	WH17149537
RVD17-07	43.61	45.61	2	K917296	WH17149537
RVD17-07	45.61	47.61	2	K917297	WH17149537
RVD17-07	47.61	49	1.39	K917298	WH17149537
RVD17-07	49	51	2	K917299	WH17149537
RVD17-07	51	53	2	K917301	WH17149537
RVD17-07	53	55	2	K917302	WH17149537
RVD17-07	55	57	2	K917303	WH17149537
RVD17-07	57	59	2	K917304	WH17149537
RVD17-07	59	61	2	K917305	WH17149537
RVD17-07	61	63	2	K917306	WH17149537
RVD17-07	63	65	2	K917307	WH17149537
RVD17-07	65	67	2	K917308	WH17149537
RVD17-07	67	68.5	1.5	K917309	WH17149537
RVD17-07	68.5	69.75	1.25	K917311	WH17149537
RVD17-07	69.75	71	1.25	K917312	WH17149537
RVD17-07	71	73	2	K917313	WH17149537
RVD17-07	73	75	2	K917314	WH17149537
RVD17-07	75	76.2	1.2	K917315	WH17149537
RVD17-07	76.2	78	1.8	K917316	WH17149537
RVD17-07	78	80.06	2.06	K917317	WH17149537
RVD17-07	80.06	82	1.94	K917318	WH17149537
RVD17-07	82	83	1	K917319	WH17149537
RVD17-07	83	84.84	1.84	K917321	WH17149537
RVD17-07	84.84	86	1.16	K917322	WH17149537
RVD17-07	86	88	2	K917323	WH17149537
RVD17-07	88	90	2	K917324	WH17149537
RVD17-07	90	92	2	K917325	WH17149537
RVD17-07	92	94	2	K917326	WH17149537

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-07	94	95.5	1.5	K917327	WH17149537
RVD17-07	95.5	96.8	1.3	K917328	WH17149537
RVD17-07	96.8	98	1.2	K917329	WH17149537
RVD17-07	98	100	2	K917331	WH17149537
RVD17-07	100	102	2	K917332	WH17149537
RVD17-07	102	104	2	K917333	WH17149537
RVD17-07	104	106	2	K917334	WH17149537
RVD17-07	106	107.5	1.5	K917335	WH17149537
RVD17-07	107.5	109	1.5	K917336	WH17149537
RVD17-07	109	110.5	1.5	K917337	WH17149537
RVD17-07	110.5	112	1.5	K917338	WH17149537
RVD17-07	112	114	2	K917339	WH17149537
RVD17-07	114	116	2	K917341	WH17149537
RVD17-07	116	118	2	K917342	WH17149537
RVD17-07	118	120	2	K917343	WH17149537
RVD17-07	120	122	2	K917344	WH17149537
RVD17-07	122	124	2	K917345	WH17149537
RVD17-07	124	126	2	K917346	WH17149537
RVD17-07	126	128	2	K917347	WH17149537
RVD17-07	128	130	2	K917348	WH17149537
RVD17-07	130	132	2	K917349	WH17149537
RVD17-07	132	134	2	K917351	WH17149537
RVD17-07	134	136	2	K917352	WH17149537
RVD17-07	136	138	2	K917353	WH17149537
RVD17-07	138	140	2	K917354	WH17149537
RVD17-07	140	142	2	K917355	WH17149537
RVD17-07	142	144	2	K917356	WH17149537
RVD17-07	144	146	2	K917357	WH17149537
RVD17-07	146	148	2	K917358	WH17149537
RVD17-07	148	150	2	K917359	WH17149537
RVD17-07	150	152	2	K917361	WH17149537
RVD17-07	152	154	2	K917362	WH17149537
RVD17-07	154	156	2	K917363	WH17149537
RVD17-07	156	158	2	K917364	WH17149537
RVD17-07	158	159.31	1.31	K917365	WH17149537
RVD17-07	159.31	161	1.69	K917366	WH17149537
RVD17-07	161	163	2	K917367	WH17149537
RVD17-07	163	165	2	K917368	WH17149537
RVD17-07	165	167	2	K917369	WH17149537
RVD17-07	167	169	2	K917371	WH17149537_revised
RVD17-07	169	171	2	K917372	WH17149537_revised
RVD17-07	171	172.5	1.5	K917373	WH17149537_revised
RVD17-07	172.5	174	1.5	K917374	WH17149537_revised
RVD17-07	174	176	2	K917375	WH17149537_revised
RVD17-07	176	178	2	K917376	WH17149537_revised
RVD17-07	178	180	2	K917377	WH17149537_revised
RVD17-07	180	182	2	K917378	WH17149537_revised
RVD17-07	182	184	2	K917379	WH17149537_revised
RVD17-07	184	186	2	K917381	WH17149537_revised
RVD17-07	186	187.5	1.5	K917382	WH17149537_revised
RVD17-07	187.5	189	1.5	K917383	WH17149537_revised
RVD17-07	189	191	2	K917384	WH17149537_revised
RVD17-07	191	193	2	K917385	WH17149537_revised
RVD17-07	193	195	2	K917386	WH17149537_revised
RVD17-07	195	197	2	K917387	WH17149537_revised
RVD17-07	197	199	2	K917388	WH17149537_revised
RVD17-07	199	201	2	K917389	WH17149537_revised
RVD17-07	201	203	2	K917391	WH17149537_revised
RVD17-07	203	205	2	K917392	WH17149537_revised
RVD17-07	205	207	2	K917393	WH17149537_revised
RVD17-07	207	208.1	1.1	K917394	WH17149537_revised
RVD17-07	208.1	210	1.9	K917395	WH17149537_revised
RVD17-07	210	211.5	1.5	K917396	WH17149537_revised
RVD17-07	211.5	213	1.5	K917397	WH17149537_revised
RVD17-07	213	215	2	K917398	WH17149537_revised
RVD17-07	215	217	2	K917399	WH17149537_revised
RVD17-07	217	219	2	K917401	WH17149537_revised
RVD17-07	219	220.51	1.51	K917402	WH17149537_revised
RVD17-07	220.51	222	1.49	K917403	WH17149537_revised
RVD17-07	222	224	2	K917404	WH17149537_revised
RVD17-07	224	226	2	K917405	WH17149537_revised
RVD17-07	226	228	2	K917406	WH17149537_revised
RVD17-07	228	230	2	K917407	WH17149537_revised
RVD17-07	230	232	2	K917408	WH17149537_revised
RVD17-07	232	234	2	K917409	WH17149537_revised
RVD17-07	234	236	2	K917411	WH17149537
RVD17-07	236	238	2	K917412	WH17149537
RVD17-07	238	240	2	K917413	WH17149537
RVD17-07	240	242.13	2.13	K917414	WH17149537
RVD17-07	242.13	244	1.87	K917415	WH17149537
RVD17-07	244	246	2	K917416	WH17149537
RVD17-07	246	248	2	K917417	WH17149537
RVD17-07	248	250	2	K917418	WH17149537
RVD17-07	250	252	2	K917419	WH17149537
RVD17-07	252	254	2	K917421	WH17149537
RVD17-07	254	256	2	K917422	WH17149537
RVD17-07	256	258	2	K917423	WH17149537
RVD17-07	258	260	2	K917424	WH17149537
RVD17-07	260	262	2	K917425	WH17149537
RVD17-07	262	264	2	K917426	WH17149537
RVD17-07	264	266	2	K917427	WH17149537
RVD17-07	266	268	2	K917428	WH17149537
RVD17-07	268	270	2	K917429	WH17149537
RVD17-07	270	272	2	K917431	WH17149537
RVD17-07	272	274	2	K917432	WH17149537
RVD17-07	274	276	2	K917433	WH17149537
RVD17-07	276	278	2	K917434	WH17149537
RVD17-07	278	280	2	K917435	WH17149537
RVD17-07	280	282	2	K917436	WH17149537
RVD17-07	282	284	2	K917437	WH17149537
RVD17-07	284	286	2	K917438	WH17149537
RVD17-07	286	288	2	K917439	WH17149537
RVD17-07	288	290	2	K917441	WH17149537
RVD17-07	290	292	2	K917442	WH17149537
RVD17-07	292	293.5	1.5	K917443	WH17149537
RVD17-07	293.5	295	1.5	K917444	WH17149537
RVD17-07	295	297	2	K917445	WH17149537
RVD17-07	297	299	2	K917446	WH17149537
RVD17-07	299	301	2	K917447	WH17149537
RVD17-07	301	303	2	K917448	WH17149537
RVD17-07	303	305	2	K917449	WH17149537
RVD17-07	305	307	2	K917451	WH17149537
RVD17-07	307	309	2	K917452	WH17149537
RVD17-07	309	311	2	K917453	WH17149537
RVD17-07	311	313	2	K917454	WH17149537
RVD17-07	313	315	2	K917455	WH17149537
RVD17-07	315	316.5	1.5	K917456	WH17149537
RVD17-07	316.5	318	1.5	K917457	WH17149537
RVD17-07	318	320	2	K917458	WH17149537
RVD17-07	320	322	2	K917459	WH17149537
RVD17-07	322	324	2	K917461	WH17149537
RVD17-07	324	326	2	K917462	WH17149537
RVD17-07	326	327.18	1.18	K917463	WH17149537
RVD17-07	327.18	329	1.82	K917464	WH17149537
RVD17-07	329	331	2	K917465	WH17149537
RVD17-07	331	333	2	K917466	WH17149537
RVD17-07	333	335	2	K917467	WH17149537
RVD17-07	335	337	2	K917468	WH17149537
RVD17-07	337	339	2	K917469	WH17149537
RVD17-07	339	341	2	K917471	WH17149537
RVD17-07	341	343	2	K917472	WH17149537
RVD17-07	343	345	2	K917473	WH17149537

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-07	345	347	2	K917474	WH17149537
RVD17-07	347	349	2	K917475	WH17149537
RVD17-07	349	351	2	K917476	WH17149537
RVD17-07	351	353	2	K917477	WH17149537
RVD17-07	353	355	2	K917478	WH17149537
RVD17-07	355	357	2	K917479	WH17149537
RVD17-07	357	359	2	K917481	WH17149537
RVD17-07	359	360	1	K917482	WH17149537
RVD17-07	360	361.63	1.63	K917483	WH17149537
RVD17-07	361.63	363	1.37	K917484	WH17149537
RVD17-07	363	365	2	K917485	WH17149537
RVD17-07	365	367	2	K917486	WH17149537
RVD17-07	367	369	2	K917487	WH17149537
RVD17-07	369	370.63	1.63	K917488	WH17149537
RVD17-07	370.63	372	1.37	K917489	WH17149537
RVD17-07	372	374	2	K917491	WH17149537_revised
RVD17-07	374	376	2	K917492	WH17149537_revised
RVD17-07	376	378	2	K917493	WH17149537_revised
RVD17-07	378	378.96	0.96	K917494	WH17149537_revised
RVD17-07	378.96	381	2.04	K917495	WH17149537_revised
RVD17-07	381	382.23	1.23	K917496	WH17149537_revised
RVD17-07	382.23	383.35	1.12	K917497	WH17149537_revised
RVD17-07	383.35	385	1.65	K917498	WH17149537_revised
RVD17-07	385	386.76	1.76	K917499	WH17149537_revised
RVD17-07	386.76	388	1.24	K917501	WH17149537_revised
RVD17-07	388	389	1	K917502	WH17149537_revised
RVD17-07	389	391	2	K917503	WH17149537_revised
RVD17-07	391	393	2	K917504	WH17149537_revised
RVD17-07	393	395	2	K917505	WH17149537_revised
RVD17-07	395	397	2	K917506	WH17149537_revised
RVD17-07	397	399	2	K917507	WH17149537_revised
RVD17-07	399	401	2	K917508	WH17156166
RVD17-07	401	403	2	K917509	WH17156166
RVD17-07	403	405	2	K917511	WH17156166
RVD17-07	405	407	2	K917512	WH17156166
RVD17-07	407	409	2	K917513	WH17156166
RVD17-07	409	410.49	1.49	K917514	WH17156166
RVD17-07	410.49	412	1.51	K917515	WH17156166
RVD17-07	412	414	2	K917516	WH17156166
RVD17-07	414	416	2	K917517	WH17156166
RVD17-07	416	418	2	K917518	WH17156166
RVD17-07	418	420	2	K917519	WH17156166
RVD17-07	420	422.03	2.03	K917521	WH17156166
RVD17-07	422.03	424	1.97	K917522	WH17156166
RVD17-07	424	426	2	K917523	WH17156166
RVD17-07	426	428	2	K917524	WH17156166
RVD17-07	428	430	2	K917525	WH17156166
RVD17-07	430	432	2	K917526	WH17156166
RVD17-07	432	434	2	K917527	WH17156166
RVD17-07	434	436	2	K917528	WH17156166
RVD17-07	436	437.5	1.5	K917529	WH17156166
RVD17-07	437.5	439	1.5	K917531	WH17156166
RVD17-07	439	440	1	K917532	WH17156166
RVD17-07	440	441.19	1.19	K917533	WH17156166
RVD17-07	441.19	443	1.81	K917534	WH17156166
RVD17-07	443	444	1	K917535	WH17156166
RVD17-07	444	445.63	1.63	K917536	WH17156166
RVD17-07	445.63	447	1.37	K917537	WH17156166
RVD17-07	447	449	2	K917538	WH17156166
RVD17-07	449	450.67	1.67	K917539	WH17156166
RVD17-07	450.67	451.67	1	K917541	WH17156166
RVD17-07	451.67	453	1.33	K917542	WH17156166
RVD17-07	453	455	2	K917543	WH17156166
RVD17-07	455	457	2	K917544	WH17156166
RVD17-07	457	459	2	K917545	WH17156166
RVD17-07	459	461	2	K917546	WH17156166
RVD17-07	461	463	2	K917547	WH17156166
RVD17-07	463	465	2	K917548	WH17156166
RVD17-07	465	467	2	K917549	WH17156166
RVD17-07	467	469	2	K917551	WH17156166
RVD17-07	469	471	2	K917552	WH17156166
RVD17-07	471	473	2	K917553	WH17156166
RVD17-07	473	475	2	K917554	WH17156166
RVD17-07	475	477	2	K917555	WH17156166
RVD17-07	477	479	2	K917556	WH17156166
RVD17-07	479	481	2	K917557	WH17156166
RVD17-07	481	483	2	K917558	WH17156166
RVD17-07	483	484.63	1.63	K917559	WH17156166
RVD17-08	13.75	15	1.25	I025934	WH17144068
RVD17-08	15	17	2	I025935	WH17144068
RVD17-08	17	19	2	I025936	WH17144068
RVD17-08	19	21	2	I025937	WH17144068
RVD17-08	21	23	2	I025938	WH17144068
RVD17-08	23	25	2	I025939	WH17144068
RVD17-08	25	27	2	I025941	WH17144068
RVD17-08	27	29	2	I025942	WH17144068
RVD17-08	29	30.96	1.96	I025943	WH17144068
RVD17-08	30.96	33	2.04	I025944	WH17144068
RVD17-08	33	35	2	I025945	WH17144068
RVD17-08	35	37	2	I025946	WH17144068
RVD17-08	37	39	2	I025947	WH17144068
RVD17-08	39	41	2	I025948	WH17144068
RVD17-08	41	43	2	I025949	WH17144068
RVD17-08	43	45	2	I025951	WH17144068
RVD17-08	45	47	2	I025952	WH17144068
RVD17-08	47	49	2	I025953	WH17144068
RVD17-08	49	51	2	I025954	WH17144068
RVD17-08	51	53	2	I025955	WH17144068
RVD17-08	53	55	2	I025956	WH17144068
RVD17-08	55	57	2	I025957	WH17144068
RVD17-08	57	59	2	I025958	WH17144068
RVD17-08	59	60.39	1.39	I025959	WH17144068
RVD17-08	60.39	62	1.61	I025961	WH17144068
RVD17-08	62	64	2	I025962	WH17144068
RVD17-08	64	66	2	I025963	WH17144068
RVD17-08	66	68	2	I025964	WH17144068
RVD17-08	68	70	2	I025965	WH17144068
RVD17-08	70	71.63	1.63	I025966	WH17144068
RVD17-08	71.63	73	1.37	I025967	WH17144068
RVD17-08	73	75	2	I025968	WH17144068
RVD17-08	75	77	2	I025969	WH17144068
RVD17-08	77	79	2	I025971	WH17144068
RVD17-08	79	80.77	1.77	I025972	WH17144068
RVD17-08	80.77	83.4	2.63	I025973	WH17144068
RVD17-08	83.4	86	2.6	I025974	WH17144068
RVD17-08	86	88	2	I025975	WH17144068
RVD17-08	88	90	2	I025976	WH17144068
RVD17-08	90	92	2	I025977	WH17144068
RVD17-08	92	94	2	I025978	WH17144068
RVD17-08	94	96	2	I025979	WH17144068
RVD17-08	96	98	2	I025981	WH17144068
RVD17-08	98	100	2	I025982	WH17144068
RVD17-08	100	102	2	I025983	WH17144068
RVD17-08	102	104	2	I025984	WH17144068
RVD17-08	104	106	2	I025985	WH17144068
RVD17-08	106	108	2	I025986	WH17144068
RVD17-08	108	110	2	I025987	WH17144068
RVD17-08	110	112	2	I025988	WH17144068
RVD17-08	112	114	2	I025989	WH17144068
RVD17-08	114	116	2	I025991	WH17144068
RVD17-08	116	118	2	I025992	WH17144068
RVD17-08	118	120	2	I025993	WH17144068

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-08	120	122	2	I025994	WH17144068
RVD17-08	122	124	2	I025995	WH17144068
RVD17-08	124	126	2	I025996	WH17144068
RVD17-08	126	128	2	I025997	WH17144068
RVD17-08	128	130	2	I025998	WH17144068
RVD17-08	130	132	2	I025999	WH17144068
RVD17-08	132	133.5	1.5	I026001	WH17147702_revised
RVD17-08	133.5	135	1.5	I026002	WH17147702_revised
RVD17-08	135	136.5	1.5	I026003	WH17147702_revised
RVD17-08	136.5	138	1.5	I026004	WH17147702_revised
RVD17-08	138	139.5	1.5	I026005	WH17147702_revised
RVD17-08	139.5	141	1.5	I026006	WH17147702_revised
RVD17-08	141	142.5	1.5	I026007	WH17147702_revised
RVD17-08	142.5	144	1.5	I026008	WH17147702_revised
RVD17-08	144	145.5	1.5	I026009	WH17147702_revised
RVD17-08	145.5	147	1.5	I026011	WH17147702
RVD17-08	147	148.5	1.5	I026012	WH17147702
RVD17-08	148.5	150	1.5	I026013	WH17147702
RVD17-08	150	151.5	1.5	I026014	WH17147702
RVD17-08	151.5	153	1.5	I026015	WH17147702
RVD17-08	153	154.5	1.5	I026016	WH17147702
RVD17-08	154.5	156	1.5	I026017	WH17147702
RVD17-08	156	157.5	1.5	I026018	WH17147702
RVD17-08	157.5	159	1.5	I026019	WH17147702
RVD17-08	159	160.5	1.5	I026021	WH17147702
RVD17-08	160.5	162	1.5	I026022	WH17147702
RVD17-08	162	163.5	1.5	I026023	WH17147702
RVD17-08	163.5	165	1.5	I026024	WH17147702
RVD17-08	165	166.5	1.5	I026025	WH17147702
RVD17-08	166.5	168	1.5	I026026	WH17147702
RVD17-08	168	169.5	1.5	I026027	WH17147702
RVD17-08	169.5	171	1.5	I026028	WH17147702
RVD17-08	171	172.5	1.5	I026029	WH17147702
RVD17-08	172.5	174	1.5	I026031	WH17147702
RVD17-08	174	175.5	1.5	I026032	WH17147702
RVD17-08	175.5	177	1.5	I026033	WH17147702
RVD17-08	177	178.5	1.5	I026034	WH17147702
RVD17-08	178.5	180	1.5	I026035	WH17147702
RVD17-08	180	181.5	1.5	I026036	WH17147702
RVD17-08	181.5	183	1.5	I026037	WH17147702
RVD17-08	183	184.5	1.5	I026038	WH17147702
RVD17-08	184.5	186	1.5	I026039	WH17147702
RVD17-08	186	187.5	1.5	I026041	WH17147702
RVD17-08	187.5	189	1.5	I026042	WH17147702
RVD17-08	189	190.5	1.5	I026043	WH17147702
RVD17-08	190.5	192	1.5	I026044	WH17147702
RVD17-08	192	193.5	1.5	I026045	WH17147702
RVD17-08	193.5	195	1.5	I026046	WH17147702
RVD17-08	195	196.5	1.5	I026047	WH17147702
RVD17-08	196.5	198	1.5	I026048	WH17147702
RVD17-08	198	199.5	1.5	I026049	WH17147702
RVD17-08	199.5	201	1.5	I026051	WH17147702
RVD17-08	201	202.5	1.5	I026052	WH17147702
RVD17-08	202.5	204.5	2	I026053	WH17147702
RVD17-08	204.5	206	1.5	I026054	WH17147702
RVD17-08	206	207.5	1.5	I026055	WH17147702
RVD17-08	207.5	209	1.5	I026056	WH17147702
RVD17-08	209	210.5	1.5	I026057	WH17147702
RVD17-08	210.5	212	1.5	I026058	WH17147702
RVD17-08	212	213.5	1.5	I026059	WH17147702
RVD17-08	213.5	215	1.5	I026061	WH17147702
RVD17-08	215	216.5	1.5	I026062	WH17147702
RVD17-08	216.5	218	1.5	I026063	WH17147702
RVD17-08	218	219.5	1.5	I026064	WH17147702
RVD17-08	219.5	221	1.5	I026065	WH17147702
RVD17-08	221	222.5	1.5	I026066	WH17147702
RVD17-08	222.5	224	1.5	I026067	WH17147702
RVD17-08	224	225.5	1.5	I026068	WH17147702
RVD17-08	225.5	227	1.5	I026069	WH17147702
RVD17-08	227	228.5	1.5	I026071	WH17147702
RVD17-08	228.5	230	1.5	I026072	WH17147702
RVD17-08	230	233	3	I026073	WH17147702
RVD17-08	233	234.5	1.5	I026075	WH17147702
RVD17-08	234.5	236	1.5	I026076	WH17147702
RVD17-08	236	237.5	1.5	I026077	WH17147702
RVD17-08	237.5	239	1.5	I026078	WH17147702
RVD17-08	239	240.5	1.5	I026079	WH17147702
RVD17-08	240.5	242.11	1.61	I026081	WH17147702
RVD17-08	242.11	243	0.89	I026082	WH17147702
RVD17-08	243	244	1	I026083	WH17147702
RVD17-08	244	245	1	I026084	WH17147702
RVD17-08	245	246	1	I026085	WH17147702
RVD17-08	246	247	1	I026086	WH17147702
RVD17-08	247	248	1	I026087	WH17147702
RVD17-08	248	249	1	I026088	WH17147702
RVD17-08	249	250.15	1.15	I026089	WH17147702
RVD17-08	250.15	251.5	1.35	I026091	WH17147702
RVD17-08	251.5	253	1.5	I026092	WH17147702
RVD17-08	253	254.5	1.5	I026093	WH17147702
RVD17-08	254.5	256	1.5	I026094	WH17147702
RVD17-08	256	257.5	1.5	I026095	WH17147702
RVD17-08	257.5	259	1.5	I026096	WH17147702
RVD17-08	259	260.5	1.5	I026097	WH17147702
RVD17-08	260.5	262	1.5	I026098	WH17147702
RVD17-08	262	263.5	1.5	I026099	WH17147702
RVD17-08	263.5	265	1.5	I026101	WH17147702
RVD17-08	265	266.5	1.5	I026102	WH17147702
RVD17-08	266.5	268	1.5	I026103	WH17147702
RVD17-08	268	269.5	1.5	I026104	WH17147702
RVD17-08	269.5	271	1.5	I026105	WH17147702
RVD17-08	271	272	1	I026106	WH17147702
RVD17-08	272	273	1	I026107	WH17147702
RVD17-08	273	274	1	I026108	WH17147702
RVD17-08	274	275	1	I026109	WH17147702
RVD17-08	275	276	1	I026111	WH17147702
RVD17-08	276	277	1	I026112	WH17147702
RVD17-08	277	278.37	1.37	I026113	WH17147702
RVD17-08	278.37	280	1.63	I026114	WH17147702
RVD17-08	280	281.5	1.5	I026115	WH17147702
RVD17-08	281.5	283	1.5	I026116	WH17147702
RVD17-08	283	284.5	1.5	I026117	WH17147702
RVD17-08	284.5	286	1.5	I026118	WH17147702
RVD17-08	286	287.5	1.5	I026119	WH17147702
RVD17-08	287.5	289	1.5	I026121	WH17147702
RVD17-08	289	290.5	1.5	I026122	WH17147702
RVD17-08	290.5	292	1.5	I026123	WH17147702
RVD17-08	292	293.5	1.5	I026124	WH17147702
RVD17-08	293.5	295	1.5	I026125	WH17147702
RVD17-08	295	296.5	1.5	I026126	WH17147702
RVD17-08	296.5	298	1.5	I026127	WH17147702
RVD17-08	298	299.5	1.5	I026128	WH17147702
RVD17-08	299.5	301	1.5	I026129	WH17147702
RVD17-08	301	302.5	1.5	I026131	WH17147702
RVD17-08	302.5	304	1.5	I026132	WH17147702
RVD17-08	304	305.5	1.5	I026133	WH17147702
RVD17-08	305.5	306.2	0.7	I026134	WH17147702
RVD17-08	306.2	307	0.8	I026135	WH17147702
RVD17-08	307	308	1	I026136	WH17147702
RVD17-08	308	309	1	I026137	WH17147702
RVD17-08	309	310	1	I026138	WH17147702
RVD17-08	310	311	1	I026139	WH17147702
RVD17-08	311	312	1	I026141	WH17147702

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-08	312	313	1	I026142	WH17147702
RVD17-08	313	314.5	1.5	I026143	WH17147702
RVD17-08	314.5	316	1.5	I026144	WH17147702
RVD17-08	316	317.5	1.5	I026145	WH17147702
RVD17-08	317.5	319	1.5	I026146	WH17147702
RVD17-08	319	320.5	1.5	I026147	WH17147702
RVD17-08	320.5	322	1.5	I026148	WH17147702
RVD17-08	322	323.5	1.5	I026149	WH17147702
RVD17-08	323.5	325	1.5	I026151	WH17147702
RVD17-08	325	326.5	1.5	I026152	WH17147702
RVD17-08	326.5	328	1.5	I026153	WH17147702
RVD17-08	328	329.5	1.5	I026154	WH17147702
RVD17-08	329.5	331	1.5	I026155	WH17147702
RVD17-08	331	332.5	1.5	I026156	WH17147702
RVD17-08	332.5	334	1.5	I026157	WH17147702
RVD17-08	334	335.5	1.5	I026158	WH17147702
RVD17-08	335.5	337	1.5	I026159	WH17147702
RVD17-08	337	338.64	1.64	I026161	WH17147702
RVD17-08	338.64	340	1.36	I026162	WH17147702
RVD17-08	340	341.5	1.5	I026163	WH17147702
RVD17-08	341.5	343	1.5	I026164	WH17147702
RVD17-08	343	344.5	1.5	I026165	WH17147702
RVD17-08	344.5	346	1.5	I026166	WH17147702
RVD17-08	346	347.5	1.5	I026167	WH17147702
RVD17-08	347.5	349	1.5	I026168	WH17147702
RVD17-08	349	350.5	1.5	I026169	WH17147702
RVD17-08	350.5	352	1.5	I026171	WH17147702
RVD17-08	352	353.5	1.5	I026172	WH17147702
RVD17-08	353.5	355	1.5	I026173	WH17147702
RVD17-08	355	356.5	1.5	I026174	WH17147702
RVD17-08	356.5	358	1.5	I026175	WH17147702
RVD17-08	358	359.5	1.5	I026176	WH17147702
RVD17-08	359.5	361	1.5	I026177	WH17147702
RVD17-08	361	362.5	1.5	I026178	WH17149538
RVD17-08	362.5	364	1.5	I026179	WH17149538
RVD17-08	364	365.5	1.5	I026181	WH17149538
RVD17-08	365.5	367	1.5	I026182	WH17149538
RVD17-08	367	368.5	1.5	I026183	WH17149538
RVD17-08	368.5	370	1.5	I026184	WH17149538
RVD17-08	370	371.5	1.5	I026185	WH17149538
RVD17-08	371.5	373	1.5	I026186	WH17149538
RVD17-08	373	374.5	1.5	I026187	WH17149538
RVD17-08	374.5	376	1.5	I026188	WH17149538
RVD17-08	376	377.5	1.5	I026189	WH17149538
RVD17-08	377.5	379	1.5	I026191	WH17149538
RVD17-08	379	380.5	1.5	I026192	WH17149538
RVD17-08	380.5	382	1.5	I026193	WH17149538
RVD17-08	382	383.5	1.5	I026194	WH17149538
RVD17-08	383.5	385	1.5	I026195	WH17149538
RVD17-08	385	386.5	1.5	I026196	WH17149538
RVD17-08	386.5	388	1.5	I026197	WH17149538
RVD17-08	388	389.5	1.5	I026198	WH17149538
RVD17-08	389.5	391	1.5	I026199	WH17149538
RVD17-08	391	392.5	1.5	I026201	WH17149538
RVD17-08	392.5	394	1.5	I026202	WH17149538
RVD17-08	394	395.5	1.5	I026203	WH17149538
RVD17-08	395.5	397	1.5	I026204	WH17149538
RVD17-08	397	398.5	1.5	I026205	WH17149538
RVD17-08	398.5	400	1.5	I026206	WH17149538
RVD17-08	400	401.5	1.5	I026207	WH17149538
RVD17-08	401.5	403	1.5	I026208	WH17149538
RVD17-08	403	404.5	1.5	I026209	WH17149538
RVD17-08	404.5	406	1.5	I026211	WH17149538
RVD17-08	406	407.5	1.5	I026212	WH17149538
RVD17-08	407.5	409	1.5	I026213	WH17149538
RVD17-08	409	409.96	0.96	I026214	WH17149538

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-09	13.18	15	1.82	K917561	WH17156166
RVD17-09	15	17	2	K917562	WH17156166
RVD17-09	17	19	2	K917563	WH17156166
RVD17-09	19	21	2	K917564	WH17156166
RVD17-09	21	23	2	K917565	WH17156166
RVD17-09	23	25	2	K917566	WH17156166
RVD17-09	25	27	2	K917567	WH17156166
RVD17-09	27	29	2	K917568	WH17156166
RVD17-09	29	31	2	K917569	WH17156166
RVD17-09	31	33	2	K917571	WH17156166
RVD17-09	33	35	2	K917572	WH17156166
RVD17-09	35	37	2	K917573	WH17156166
RVD17-09	37	38.25	1.25	K917574	WH17156166
RVD17-09	38.25	40	1.75	K917575	WH17156166
RVD17-09	40	42	2	K917576	WH17156166
RVD17-09	42	44	2	K917577	WH17156166
RVD17-09	44	46	2	K917578	WH17156166
RVD17-09	46	48	2	K917579	WH17156166
RVD17-09	48	50	2	K917581	WH17156166
RVD17-09	50	52	2	K917582	WH17156166
RVD17-09	52	54	2	K917583	WH17156166
RVD17-09	54	55.88	1.88	K917584	WH17156166
RVD17-09	55.88	57	1.12	K917585	WH17156166
RVD17-09	57	59	2	K917586	WH17156166
RVD17-09	59	61	2	K917587	WH17156166
RVD17-09	61	63	2	K917588	WH17156166
RVD17-09	63	65	2	K917589	WH17156166
RVD17-09	65	67	2	K917591	WH17156166
RVD17-09	67	69	2	K917592	WH17156166
RVD17-09	69	71	2	K917593	WH17156166
RVD17-09	71	73	2	K917594	WH17156166
RVD17-09	73	74	1	K917595	WH17156166
RVD17-09	74	76	2	K917596	WH17156166
RVD17-09	76	78	2	K917597	WH17156166
RVD17-09	78	80	2	K917598	WH17156166
RVD17-09	80	82	2	K917599	WH17156166
RVD17-09	82	83.5	1.5	K917601	WH17156166
RVD17-09	83.5	85	1.5	K917602	WH17156166
RVD17-09	85	87	2	K917603	WH17156166
RVD17-09	87	89	2	K917604	WH17156166
RVD17-09	89	91	2	K917605	WH17156166
RVD17-09	91	93	2	K917606	WH17156166
RVD17-09	93	95	2	K917607	WH17156166
RVD17-09	95	97	2	K917608	WH17156166
RVD17-09	97	99	2	K917609	WH17156166
RVD17-09	99	101	2	K917611	WH17156166
RVD17-09	101	103	2	K917612	WH17156166
RVD17-09	103	105	2	K917613	WH17156166
RVD17-09	105	106.5	1.5	K917614	WH17156166
RVD17-09	106.5	108	1.5	K917615	WH17156166
RVD17-09	108	109.73	1.73	K917616	WH17156166
RVD17-09	109.73	111.04	1.31	K917617	WH17156166
RVD17-09	111.04	113	1.96	K917618	WH17156166
RVD17-09	113	115	2	K917619	WH17156166
RVD17-09	115	117	2	K917621	WH17156166
RVD17-09	117	119	2	K917622	WH17156166
RVD17-09	119	121	2	K917623	WH17156166
RVD17-09	121	123	2	K917624	WH17156166
RVD17-09	123	125	2	K917625	WH17156166
RVD17-09	125	127	2	K917626	WH17156166
RVD17-09	127	129	2	K917627	WH17156166
RVD17-09	129	131	2	K917628	WH17156166
RVD17-09	131	133	2	K917629	WH17156166
RVD17-09	133	135	2	K917631	WH17156166
RVD17-09	135	137	2	K917632	WH17156166
RVD17-09	137	139	2	K917633	WH17156166

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-09	139	141	2	K917634	WH17156166
RVD17-09	141	143	2	K917635	WH17156166
RVD17-09	143	145	2	K917636	WH17156166
RVD17-09	145	147	2	K917637	WH17156166
RVD17-09	147	149	2	K917638	WH17156166
RVD17-09	149	151	2	K917639	WH17156166
RVD17-09	151	153	2	K917641	WH17156166
RVD17-09	153	155	2	K917642	WH17156166
RVD17-09	155	157	2	K917643	WH17156166
RVD17-09	157	159	2	K917644	WH17156166
RVD17-09	159	161	2	K917645	WH17156166
RVD17-09	161	163	2	K917646	WH17156166
RVD17-09	163	165	2	K917647	WH17156166
RVD17-09	165	166.5	1.5	K917648	WH17156166
RVD17-09	166.5	168.5	2	K917649	WH17156166
RVD17-09	168.5	170.37	1.87	K917651	WH17156166
RVD17-09	170.37	172	1.63	K917652	WH17156166
RVD17-09	172	172.78	0.78	K917653	WH17156166
RVD17-09	172.78	174	1.22	K917654	WH17156166
RVD17-09	174	176	2	K917655	WH17156166
RVD17-09	176	178	2	K917656	WH17156166
RVD17-09	178	180	2	K917657	WH17156166
RVD17-09	180	182	2	K917658	WH17156176
RVD17-09	182	184	2	K917659	WH17156176
RVD17-09	184	186	2	K917661	WH17156176
RVD17-09	186	188	2	K917662	WH17156176
RVD17-09	188	190	2	K917663	WH17156176
RVD17-09	190	192	2	K917664	WH17156176
RVD17-09	192	194	2	K917665	WH17156176
RVD17-09	194	196	2	K917666	WH17156176
RVD17-09	196	198	2	K917667	WH17156176
RVD17-09	198	200	2	K917668	WH17156176
RVD17-09	200	202	2	K917669	WH17156176
RVD17-09	202	204	2	K917671	WH17156176
RVD17-09	204	206	2	K917672	WH17156176
RVD17-09	206	208	2	K917673	WH17156176
RVD17-09	208	210	2	K917674	WH17156176
RVD17-09	210	212	2	K917675	WH17156176
RVD17-09	212	214	2	K917676	WH17156176
RVD17-09	214	216	2	K917677	WH17156176
RVD17-09	216	218	2	K917678	WH17156176
RVD17-09	218	220	2	K917679	WH17156176
RVD17-09	220	222	2	K917681	WH17156176
RVD17-09	222	224	2	K917682	WH17156176
RVD17-09	224	226	2	K917683	WH17156176
RVD17-09	226	228	2	K917684	WH17156176
RVD17-09	228	230	2	K917685	WH17156176
RVD17-09	230	232	2	K917686	WH17156176
RVD17-09	232	234	2	K917687	WH17156176
RVD17-09	234	236	2	K917688	WH17156176
RVD17-09	236	238	2	K917689	WH17156176
RVD17-09	238	240	2	K917691	WH17156176
RVD17-09	240	242	2	K917692	WH17156176
RVD17-09	242	244	2	K917693	WH17156176
RVD17-09	244	246	2	K917694	WH17156176
RVD17-09	246	248	2	K917695	WH17156176
RVD17-09	248	250	2	K917696	WH17156176
RVD17-09	250	252	2	K917697	WH17156176
RVD17-09	252	254	2	K917698	WH17156176
RVD17-09	254	256	2	K917699	WH17156176
RVD17-09	256	258	2	K917701	WH17156176
RVD17-09	258	260	2	K917702	WH17156176
RVD17-09	260	262	2	K917703	WH17156176
RVD17-09	262	264	2	K917704	WH17156176
RVD17-09	264	266	2	K917705	WH17156176
RVD17-09	266	268	2	K917706	WH17156176
RVD17-09	268	270	2	K917707	WH17156176
RVD17-09	270	272	2	K917708	WH17156176
RVD17-09	272	274	2	K917709	WH17156176
RVD17-09	274	276	2	K917711	WH17156176
RVD17-09	276	278	2	K917712	WH17156176
RVD17-09	278	280	2	K917713	WH17156176
RVD17-09	280	282	2	K917714	WH17156176
RVD17-09	282	284	2	K917715	WH17156176
RVD17-09	284	286	2	K917716	WH17156176
RVD17-09	286	288	2	K917717	WH17156176
RVD17-09	288	290	2	K917718	WH17156176
RVD17-09	290	292	2	K917719	WH17156176
RVD17-09	292	293.5	1.5	K917721	WH17156176
RVD17-09	293.5	294.41	0.91	K917722	WH17156176
RVD17-09	294.41	296	1.59	K917723	WH17156176
RVD17-09	296	298	2	K917724	WH17156176
RVD17-09	298	300	2	K917725	WH17156176
RVD17-09	300	302	2	K917726	WH17156176
RVD17-09	302	303.4	1.4	K917727	WH17156176
RVD17-09	303.4	305	1.6	K917728	WH17156176
RVD17-09	305	307	2	K917729	WH17156176
RVD17-09	307	309	2	K917731	WH17156176
RVD17-09	309	311	2	K917732	WH17156176
RVD17-09	311	313	2	K917733	WH17156176
RVD17-09	313	315	2	K917734	WH17156176
RVD17-09	315	317	2	K917735	WH17156176
RVD17-09	317	319	2	K917736	WH17156176
RVD17-09	319	321	2	K917737	WH17156176
RVD17-09	321	323	2	K917738	WH17156176
RVD17-09	323	325	2	K917739	WH17156176
RVD17-09	325	327	2	K917741	WH17156176
RVD17-09	327	329	2	K917742	WH17156176
RVD17-09	329	331	2	K917743	WH17156176
RVD17-09	331	333	2	K917744	WH17156176
RVD17-09	333	335	2	K917745	WH17156176
RVD17-09	335	337	2	K917746	WH17156176
RVD17-09	337	339	2	K917747	WH17156176
RVD17-09	339	341	2	K917748	WH17156176
RVD17-09	341	343	2	K917749	WH17156176
RVD17-09	343	345	2	K917751	WH17156176
RVD17-09	345	347	2	K917752	WH17156176
RVD17-09	347	349	2	K917753	WH17156176
RVD17-09	349	351	2	K917754	WH17156176
RVD17-09	351	353	2	K917755	WH17156176
RVD17-09	353	355	2	K917756	WH17156176
RVD17-09	355	357	2	K917757	WH17156176
RVD17-09	357	359	2	K917758	WH17156176
RVD17-09	359	361	2	K917759	WH17156176
RVD17-09	361	363	2	K917761	WH17156176
RVD17-09	363	365	2	K917762	WH17156176
RVD17-09	365	367	2	K917763	WH17156176
RVD17-09	367	369	2	K917764	WH17156176
RVD17-09	369	371	2	K917765	WH17156176
RVD17-09	371	373	2	K917766	WH17156176
RVD17-09	373	375	2	K917767	WH17156176
RVD17-09	375	377	2	K917768	WH17156176
RVD17-09	377	379	2	K917769	WH17156176
RVD17-09	379	381	2	K917771	WH17156176
RVD17-09	381	383	2	K917772	WH17156176
RVD17-09	383	385	2	K917773	WH17156176
RVD17-09	385	386	1	K917774	WH17156176
RVD17-09	386	387.16	1.16	K917775	WH17156176
RVD17-09	387.16	389	1.84	K917776	WH17156176
RVD17-09	389	391	2	K917777	WH17156176
RVD17-09	391	393	2	K917778	WH17156176
RVD17-09	393	394.52	1.52	K917779	WH17156176

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-09	394.52	396	1.48	K917781	WH17156176
RVD17-09	396	398	2	K917782	WH17156176
RVD17-09	398	400	2	K917783	WH17156176
RVD17-09	400	401.5	1.5	K917784	WH17156176
RVD17-09	401.5	402.47	0.97	K917785	WH17156176
RVD17-09	402.47	404	1.53	K917786	WH17156176
RVD17-09	404	405.7	1.7	K917787	WH17156176
RVD17-09	405.7	407	1.3	K917788	WH17156176
RVD17-09	407	409	2	K917789	WH17156176
RVD17-09	409	411	2	K917791	WH17156176
RVD17-09	411	413	2	K917792	WH17156176
RVD17-09	413	415	2	K917793	WH17156176
RVD17-09	415	417	2	K917794	WH17156176
RVD17-09	417	419	2	K917795	WH17156176
RVD17-09	419	420.03	1.03	K917796	WH17156176
RVD17-10	36	38	2	I026215	WH17149538
RVD17-10	38	40	2	I026216	WH17149538
RVD17-10	40	42	2	I026217	WH17149538
RVD17-10	42	44	2	I026218	WH17149538
RVD17-10	44	46	2	I026219	WH17149538
RVD17-10	46	48	2	I026221	WH17149538
RVD17-10	48	50	2	I026222	WH17149538
RVD17-10	50	52	2	I026223	WH17149538
RVD17-10	52	54	2	I026224	WH17149538
RVD17-10	54	56	2	I026225	WH17149538
RVD17-10	56	58	2	I026226	WH17149538
RVD17-10	58	60	2	I026227	WH17149538
RVD17-10	60	62	2	I026228	WH17149538
RVD17-10	62	64	2	I026229	WH17149538
RVD17-10	64	66	2	I026231	WH17149538
RVD17-10	66	68	2	I026232	WH17149538
RVD17-10	68	70	2	I026233	WH17149538
RVD17-10	70	72	2	I026234	WH17149538
RVD17-10	72	74	2	I026235	WH17149538
RVD17-10	74	76	2	I026236	WH17149538
RVD17-10	76	78	2	I026237	WH17149538
RVD17-10	78	80	2	I026238	WH17149538
RVD17-10	80	82	2	I026239	WH17149538
RVD17-10	82	84	2	I026241	WH17149538
RVD17-10	84	86	2	I026242	WH17149538
RVD17-10	86	88	2	I026243	WH17149538
RVD17-10	88	90	2	I026244	WH17149538
RVD17-10	90	92	2	I026245	WH17149538
RVD17-10	92	94	2	I026246	WH17149538
RVD17-10	94	94.7	0.7	I026247	WH17149538
RVD17-10	94.7	96	1.3	I026248	WH17149538
RVD17-10	96	97.9	1.9	I026249	WH17149538
RVD17-10	97.9	100	2.1	I026251	WH17149538
RVD17-10	100	102	2	I026252	WH17149538
RVD17-10	102	104	2	I026253	WH17149538
RVD17-10	104	106	2	I026254	WH17149538
RVD17-10	106	108	2	I026255	WH17149538
RVD17-10	108	110	2	I026256	WH17149538
RVD17-10	110	112	2	I026257	WH17149538
RVD17-10	112	114	2	I026258	WH17149538
RVD17-10	114	116	2	I026259	WH17149538
RVD17-10	116	118	2	I026261	WH17149538
RVD17-10	118	120	2	I026262	WH17149538
RVD17-10	120	122	2	I026263	WH17149538
RVD17-10	122	124	2	I026264	WH17149538
RVD17-10	124	126	2	I026265	WH17149538
RVD17-10	126	128	2	I026266	WH17149538
RVD17-10	128	130	2	I026267	WH17149538
RVD17-10	130	132	2	I026268	WH17149538
RVD17-10	132	134	2	I026269	WH17149538
RVD17-10	134	136	2	I026271	WH17149538

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-10	136	138	2	I026272	WH17149538
RVD17-10	138	140	2	I026273	WH17149538
RVD17-10	140	142	2	I026274	WH17149538
RVD17-10	142	144	2	I026275	WH17149538
RVD17-10	144	146	2	I026276	WH17149538
RVD17-10	146	148	2	I026277	WH17149538
RVD17-10	148	149.5	1.5	I026278	WH17149538
RVD17-10	149.5	150.56	1.06	I026279	WH17149538
RVD17-10	150.56	152	1.44	I026281	WH17149538
RVD17-10	152	153.5	1.5	I026282	WH17149538
RVD17-10	153.5	155	1.5	I026283	WH17149538
RVD17-10	155	156.5	1.5	I026284	WH17149538
RVD17-10	156.5	158	1.5	I026285	WH17149538
RVD17-10	158	159.5	1.5	I026286	WH17149538
RVD17-10	159.5	161	1.5	I026287	WH17149538
RVD17-10	161	162.5	1.5	I026288	WH17149538
RVD17-10	162.5	164	1.5	I026289	WH17149538
RVD17-10	164	165.5	1.5	I026291	WH17149538
RVD17-10	165.5	167	1.5	I026292	WH17149538
RVD17-10	167	168	1	I026293	WH17149538
RVD17-10	168	170	2	I026294	WH17149538
RVD17-10	170	172	2	I026295	WH17149538
RVD17-10	172	174	2	I026296	WH17149538
RVD17-10	174	176	2	I026297	WH17149538
RVD17-10	176	178	2	I026298	WH17149538
RVD17-10	178	180	2	I026299	WH17149538
RVD17-10	180	182	2	I026301	WH17149538
RVD17-10	182	184	2	I026302	WH17149538
RVD17-10	184	186	2	I026303	WH17149538
RVD17-10	186	188	2	I026304	WH17149538
RVD17-10	188	190	2	I026305	WH17149538
RVD17-10	190	192	2	I026306	WH17149538
RVD17-10	192	194	2	I026307	WH17149538
RVD17-10	194	196	2	I026308	WH17149538
RVD17-10	196	198	2	I026309	WH17149538
RVD17-10	198	200	2	I026311	WH17149538
RVD17-10	200	202	2	I026312	WH17149538
RVD17-10	202	204	2	I026313	WH17149538
RVD17-10	204	206	2	I026314	WH17149538
RVD17-10	206	208	2	I026315	WH17149538
RVD17-10	208	210	2	I026316	WH17149538
RVD17-10	210	212	2	I026317	WH17149538
RVD17-10	212	214	2	I026318	WH17149538
RVD17-10	214	216.2	2.2	I026319	WH17149538
RVD17-10	216.2	217.5	1.3	I026321	WH17149538
RVD17-10	217.5	219	1.5	I026322	WH17149538
RVD17-10	219	220.5	1.5	I026323	WH17149538
RVD17-10	220.5	222	1.5	I026324	WH17149538
RVD17-10	222	223.5	1.5	I026325	WH17149538
RVD17-10	223.5	225	1.5	I026326	WH17149538
RVD17-10	225	226.5	1.5	I026327	WH17149538
RVD17-10	226.5	228	1.5	I026328	WH17149538
RVD17-10	228	229.5	1.5	I026329	WH17149538
RVD17-10	229.5	231	1.5	I026331	WH17149538
RVD17-10	231	232.5	1.5	I026332	WH17149538
RVD17-10	232.5	234	1.5	I026333	WH17149538
RVD17-10	234	235.5	1.5	I026334	WH17149538
RVD17-10	235.5	237	1.5	I026335	WH17149538
RVD17-10	237	238.5	1.5	I026336	WH17149538
RVD17-10	238.5	240	1.5	I026337	WH17149538
RVD17-10	240	241.5	1.5	I026338	WH17149538
RVD17-10	241.5	243	1.5	I026339	WH17149538
RVD17-10	243	244.5	1.5	I026341	WH17149538
RVD17-10	244.5	246	1.5	I026342	WH17149538
RVD17-10	246	247.5	1.5	I026343	WH17149538
RVD17-10	247.5	248.31	0.81	I026344	WH17149538

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-10	248.31	250	1.69	I026345	WH17149538
RVD17-10	250	252	2	I026346	WH17149538
RVD17-10	252	254	2	I026347	WH17149538
RVD17-10	254	256	2	I026348	WH17149538
RVD17-10	256	258	2	I026349	WH17149538
RVD17-10	258	260	2	I026351	WH17149538
RVD17-10	260	262	2	I026352	WH17149538
RVD17-10	262	264	2	I026353	WH17149538
RVD17-10	264	266	2	I026354	WH17149538
RVD17-10	266	268	2	I026355	WH17149538
RVD17-10	268	270	2	I026356	WH17149538
RVD17-10	270	272	2	I026357	WH17149538
RVD17-10	272	274	2	I026358	WH17149538
RVD17-10	274	276	2	I026359	WH17149538
RVD17-10	276	278	2	I026361	WH17149538
RVD17-10	278	280	2	I026362	WH17149538
RVD17-10	280	282	2	I026363	WH17149538
RVD17-10	282	284	2	I026364	WH17149538
RVD17-10	284	286	2	I026365	WH17149538
RVD17-10	286	288	2	I026366	WH17149538
RVD17-10	288	290	2	I026367	WH17149538
RVD17-10	290	292	2	I026368	WH17156176
RVD17-10	292	294	2	I026369	WH17156176
RVD17-10	294	296	2	I026371	WH17156176
RVD17-10	296	298	2	I026372	WH17156176
RVD17-10	298	300	2	I026373	WH17156176
RVD17-10	300	302	2	I026374	WH17156176
RVD17-10	302	304	2	I026375	WH17156176
RVD17-10	304	306	2	I026376	WH17156176
RVD17-10	306	308	2	I026377	WH17156176
RVD17-10	308	310	2	I026378	WH17156176
RVD17-10	310	312	2	I026379	WH17156176
RVD17-10	312	314	2	I026381	WH17156176
RVD17-10	314	316	2	I026382	WH17156176
RVD17-10	316	318	2	I026383	WH17156176
RVD17-10	318	319.5	1.5	I026384	WH17156176
RVD17-10	319.5	321	1.5	I026385	WH17156176
RVD17-10	321	322.5	1.5	I026386	WH17156176
RVD17-10	322.5	324	1.5	I026387	WH17156176
RVD17-10	324	325.5	1.5	I026388	WH17156176
RVD17-10	325.5	326.66	1.16	I026389	WH17156176
RVD17-10	326.66	328	1.34	I026391	WH17156176
RVD17-10	328	329.5	1.5	I026392	WH17156176
RVD17-10	329.5	331	1.5	I026393	WH17156176
RVD17-10	331	332.5	1.5	I026394	WH17156176
RVD17-10	332.5	334	1.5	I026395	WH17156176
RVD17-10	334	335.5	1.5	I026396	WH17156176
RVD17-10	335.5	337	1.5	I026397	WH17156176
RVD17-10	337	338.5	1.5	I026398	WH17156176
RVD17-10	338.5	340	1.5	I026399	WH17156176
RVD17-10	340	341.5	1.5	I026501	WH17156183
RVD17-10	341.5	343	1.5	I026502	WH17156183
RVD17-10	343	344.5	1.5	I026503	WH17156183
RVD17-10	344.5	346	1.5	I026504	WH17156183
RVD17-10	346	347.5	1.5	I026505	WH17156183
RVD17-10	347.5	349	1.5	I026506	WH17156183
RVD17-10	349	350.5	1.5	I026507	WH17156183
RVD17-10	350.5	352	1.5	I026508	WH17156183
RVD17-10	352	353.5	1.5	I026509	WH17156183
RVD17-10	353.5	355	1.5	I026511	WH17156183
RVD17-10	355	356.5	1.5	I026512	WH17156183
RVD17-10	356.5	358	1.5	I026513	WH17156183
RVD17-10	358	359.5	1.5	I026514	WH17156183
RVD17-10	359.5	361	1.5	I026515	WH17156183
RVD17-10	361	362.5	1.5	I026516	WH17156183
RVD17-10	362.5	364	1.5	I026517	WH17156183

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-10	364	365.5	1.5	I026518	WH17156183
RVD17-10	365.5	367	1.5	I026519	WH17156183
RVD17-10	367	368.5	1.5	I026521	WH17156183
RVD17-10	368.5	370	1.5	I026522	WH17156183
RVD17-10	370	371.5	1.5	I026523	WH17156183
RVD17-10	371.5	373	1.5	I026524	WH17156183
RVD17-10	373	374.5	1.5	I026525	WH17156183
RVD17-10	374.5	376	1.5	I026526	WH17156183
RVD17-10	376	377.5	1.5	I026527	WH17156183
RVD17-10	377.5	379	1.5	I026528	WH17156183
RVD17-10	379	380.5	1.5	I026529	WH17156183
RVD17-10	380.5	382	1.5	I026531	WH17156183
RVD17-10	382	383.5	1.5	I026532	WH17156183
RVD17-10	383.5	385	1.5	I026533	WH17156183
RVD17-10	385	386.5	1.5	I026534	WH17156183
RVD17-10	386.5	388.62	2.12	I026535	WH17156183
RVD17-11	360	362	2	E443652	WH17164142
RVD17-11	362	364	2	E443653	WH17164142
RVD17-11	364	366	2	E443654	WH17164142
RVD17-11	366	368	2	E443655	WH17164142
RVD17-11	368	370	2	E443656	WH17164142
RVD17-11	370	372	2	E443657	WH17164142
RVD17-11	372	374	2	E443658	WH17164142
RVD17-11	374	376	2	E443659	WH17164142
RVD17-11	376	378	2	E443661	WH17164142
RVD17-11	378	380	2	E443662	WH17164142
RVD17-11	380	382	2	E443663	WH17164142
RVD17-11	382	384	2	E443664	WH17164142
RVD17-11	384	386	2	E443665	WH17164142
RVD17-11	386	388	2	E443666	WH17164142
RVD17-11	388	390	2	E443667	WH17164142
RVD17-11	390	392	2	E443668	WH17164142
RVD17-11	392	394	2	E443669	WH17164142
RVD17-11	394	396	2	E443671	WH17164142
RVD17-11	396	398	2	E443672	WH17164142
RVD17-11	398	400	2	E443673	WH17164142
RVD17-11	400	402	2	E443674	WH17164142
RVD17-11	402	404	2	E443675	WH17164142
RVD17-11	404	406	2	E443676	WH17164142
RVD17-11	406	408	2	E443677	WH17164142
RVD17-11	408	410	2	E443678	WH17164142
RVD17-11	410	412	2	E443679	WH17164142
RVD17-11	412	414	2	E443681	WH17164142
RVD17-11	414	416	2	E443682	WH17164142
RVD17-11	416	418	2	E443683	WH17164142
RVD17-11	418	420	2	E443684	WH17164142
RVD17-11	420	422	2	E443685	WH17164142
RVD17-11	422	424	2	E443686	WH17164142
RVD17-11	424	426	2	E443687	WH17164142
RVD17-11	426	428	2	E443688	WH17164142
RVD17-11	428	430	2	E443689	WH17164142
RVD17-11	430	432	2	E443691	WH17164142
RVD17-11	432	434	2	E443692	WH17164142
RVD17-11	434	436	2	E443693	WH17164142
RVD17-11	436	438	2	E443694	WH17164142
RVD17-11	438	440	2	E443695	WH17164142
RVD17-11	440	442	2	E443696	WH17164142
RVD17-11	442	444	2	E443697	WH17164142
RVD17-11	444	446	2	E443698	WH17164142
RVD17-11	446	448	2	E443699	WH17164142
RVD17-11	448	450	2	E443701	WH17164142
RVD17-11	450	452	2	E443702	WH17164142
RVD17-11	452	453.27	1.27	E443703	WH17164142
RVD17-11	453.27	455	1.73	E443704	WH17164142
RVD17-11	455	457	2	E443705	WH17164142
RVD17-11	457	459	2	E443706	WH17164142

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-11	459	461	2	E443707	WH17164142
RVD17-11	461	463	2	E443708	WH17164142
RVD17-11	463	465	2	E443709	WH17164142
RVD17-11	465	467	2	E443711	WH17164142
RVD17-11	467	469	2	E443712	WH17164142
RVD17-11	469	471	2	E443713	WH17164142
RVD17-11	471	473	2	E443714	WH17164142
RVD17-11	473	475	2	E443715	WH17164142
RVD17-11	475	477	2	E443716	WH17164142
RVD17-11	477	479	2	E443717	WH17164142
RVD17-11	479	481	2	E443718	WH17164142
RVD17-11	481	483.11	2.11	E443719	WH17164142
RVD17-11	4.1	6	1.9	K917797	WH17156176
RVD17-11	6	8	2	K917798	WH17156176
RVD17-11	8	10	2	K917799	WH17156176
RVD17-11	10	12	2	K917801	WH17156176
RVD17-11	12	14	2	K917802	WH17156176
RVD17-11	14	16	2	K917803	WH17156176
RVD17-11	16	17	1	K917804	WH17156176
RVD17-11	17	18	1	K917805	WH17156176
RVD17-11	18	20	2	K917806	WH17156176
RVD17-11	20	22	2	K917807	WH17156176
RVD17-11	22	24	2	K917808	WH17156176
RVD17-11	24	26	2	K917809	WH17156176
RVD17-11	26	28	2	K917811	WH17156176
RVD17-11	28	30	2	K917812	WH17156176
RVD17-11	30	32	2	K917813	WH17156176
RVD17-11	32	34	2	K917814	WH17156176
RVD17-11	34	36	2	K917815	WH17156176
RVD17-11	36	38	2	K917816	WH17156176
RVD17-11	38	40	2	K917817	WH17156176
RVD17-11	40	42	2	K917818	WH17156176
RVD17-11	42	44	2	K917819	WH17156176
RVD17-11	44	46	2	K917821	WH17156176
RVD17-11	46	48	2	K917822	WH17156176
RVD17-11	48	50	2	K917823	WH17156176
RVD17-11	50	52	2	K917824	WH17156176
RVD17-11	52	54	2	K917825	WH17156176
RVD17-11	54	56	2	K917826	WH17156176
RVD17-11	56	58	2	K917827	WH17156176
RVD17-11	58	60	2	K917828	WH17156176
RVD17-11	60	62	2	K917829	WH17156176
RVD17-11	62	64	2	K917831	WH17156176
RVD17-11	64	66	2	K917832	WH17156176
RVD17-11	66	68	2	K917833	WH17156176
RVD17-11	68	70	2	K917834	WH17156176
RVD17-11	70	72	2	K917835	WH17156176
RVD17-11	72	74	2	K917836	WH17156176
RVD17-11	74	76	2	K917837	WH17156176
RVD17-11	76	78	2	K917838	WH17156176
RVD17-11	78	80	2	K917839	WH17156176
RVD17-11	80	82	2	K917841	WH17156176
RVD17-11	82	84	2	K917842	WH17156176
RVD17-11	84	86	2	K917843	WH17156176
RVD17-11	86	88	2	K917844	WH17156176
RVD17-11	88	90	2	K917845	WH17156176
RVD17-11	90	92	2	K917846	WH17156176
RVD17-11	92	94	2	K917847	WH17156176
RVD17-11	94	96	2	K917848	WH17156176
RVD17-11	96	98	2	K917849	WH17156176
RVD17-11	98	100	2	K917851	WH17164142
RVD17-11	100	102	2	K917852	WH17164142
RVD17-11	102	104	2	K917853	WH17164142
RVD17-11	104	106	2	K917854	WH17164142
RVD17-11	106	108	2	K917855	WH17164142
RVD17-11	108	110	2	K917856	WH17164142

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-11	110	112	2	K917857	WH17164142
RVD17-11	112	114	2	K917858	WH17164142
RVD17-11	114	116	2	K917859	WH17164142
RVD17-11	116	118	2	K917861	WH17164142
RVD17-11	118	120	2	K917862	WH17164142
RVD17-11	120	122	2	K917863	WH17164142
RVD17-11	122	124	2	K917864	WH17164142
RVD17-11	124	126	2	K917865	WH17164142
RVD17-11	126	128	2	K917866	WH17164142
RVD17-11	128	130	2	K917867	WH17164142
RVD17-11	130	132	2	K917868	WH17164142
RVD17-11	132	134	2	K917869	WH17164142
RVD17-11	134	136	2	K917871	WH17164142
RVD17-11	136	138	2	K917872	WH17164142
RVD17-11	138	140	2	K917873	WH17164142
RVD17-11	140	142	2	K917874	WH17164142
RVD17-11	142	144	2	K917875	WH17164142
RVD17-11	144	145.5	1.5	K917876	WH17164142
RVD17-11	145.5	146.63	1.13	K917877	WH17164142
RVD17-11	146.63	148	1.37	K917878	WH17164142
RVD17-11	148	150	2	K917879	WH17164142
RVD17-11	150	152	2	K917881	WH17164142
RVD17-11	152	154	2	K917882	WH17164142
RVD17-11	154	156	2	K917883	WH17164142
RVD17-11	156	158	2	K917884	WH17164142
RVD17-11	158	160	2	K917885	WH17164142
RVD17-11	160	162	2	K917886	WH17164142
RVD17-11	162	164	2	K917887	WH17164142
RVD17-11	164	166	2	K917888	WH17164142
RVD17-11	166	168	2	K917889	WH17164142
RVD17-11	168	170	2	K917891	WH17164142
RVD17-11	170	172	2	K917892	WH17164142
RVD17-11	172	174	2	K917893	WH17164142
RVD17-11	174	176	2	K917894	WH17164142
RVD17-11	176	178	2	K917895	WH17164142
RVD17-11	178	180	2	K917896	WH17164142
RVD17-11	180	181	1	K917897	WH17164142
RVD17-11	181	182.24	1.24	K917898	WH17164142
RVD17-11	182.24	184	1.76	K917899	WH17164142
RVD17-11	184	186	2	K917901	WH17164142
RVD17-11	186	188	2	K917902	WH17164142
RVD17-11	188	190	2	K917903	WH17164142
RVD17-11	190	192	2	K917904	WH17164142
RVD17-11	192	194	2	K917905	WH17164142
RVD17-11	194	196	2	K917906	WH17164142
RVD17-11	196	198	2	K917907	WH17164142
RVD17-11	198	200	2	K917908	WH17164142
RVD17-11	200	202	2	K917909	WH17164142
RVD17-11	202	204	2	K917911	WH17164142
RVD17-11	204	206	2	K917912	WH17164142
RVD17-11	206	208	2	K917913	WH17164142
RVD17-11	208	210	2	K917914	WH17164142
RVD17-11	210	212	2	K917915	WH17164142
RVD17-11	212	214	2	K917916	WH17164142
RVD17-11	214	216	2	K917917	WH17164142
RVD17-11	216	218	2	K917918	WH17164142
RVD17-11	218	220.09	2.09	K917919	WH17164142
RVD17-11	220.09	221	0.91	K917921	WH17164142
RVD17-11	221	222	1	K917922	WH17164142
RVD17-11	222	224	2	K917923	WH17164142
RVD17-11	224	226	2	K917924	WH17164142
RVD17-11	226	228	2	K917925	WH17164142
RVD17-11	228	230	2	K917926	WH17164142
RVD17-11	230	232	2	K917927	WH17164142
RVD17-11	232	234	2	K917928	WH17164142
RVD17-11	234	236	2	K917929	WH17164142

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-11	236	238	2	K917931	WH17164142
RVD17-11	238	240	2	K917932	WH17164142
RVD17-11	240	242	2	K917933	WH17164142
RVD17-11	242	244	2	K917934	WH17164142
RVD17-11	244	246	2	K917935	WH17164142
RVD17-11	246	248	2	K917936	WH17164142
RVD17-11	248	250	2	K917937	WH17164142
RVD17-11	250	252	2	K917938	WH17164142
RVD17-11	252	254	2	K917939	WH17164142
RVD17-11	254	256	2	K917941	WH17164142
RVD17-11	256	258	2	K917942	WH17164142
RVD17-11	258	260	2	K917943	WH17164142
RVD17-11	260	262	2	K917944	WH17164142
RVD17-11	262	264	2	K917945	WH17164142
RVD17-11	264	266	2	K917946	WH17164142
RVD17-11	266	268	2	K917947	WH17164142
RVD17-11	268	270	2	K917948	WH17164142
RVD17-11	270	272	2	K917949	WH17164142
RVD17-11	272	274	2	K917951	WH17164142
RVD17-11	274	276	2	K917952	WH17164142
RVD17-11	276	278	2	K917953	WH17164142
RVD17-11	278	280	2	K917954	WH17164142
RVD17-11	280	282	2	K917955	WH17164142
RVD17-11	282	284	2	K917956	WH17164142
RVD17-11	284	286	2	K917957	WH17164142
RVD17-11	286	288	2	K917958	WH17164142
RVD17-11	288	290	2	K917959	WH17164142
RVD17-11	290	292	2	K917961	WH17164142
RVD17-11	292	294	2	K917962	WH17164142
RVD17-11	294	296	2	K917963	WH17164142
RVD17-11	296	298	2	K917964	WH17164142
RVD17-11	298	300	2	K917965	WH17164142
RVD17-11	300	301	1	K917966	WH17164142
RVD17-11	301	302.32	1.32	K917967	WH17164142
RVD17-11	302.32	304	1.68	K917968	WH17164142
RVD17-11	304	306	2	K917969	WH17164142
RVD17-11	306	308	2	K917971	WH17164142
RVD17-11	308	310	2	K917972	WH17164142
RVD17-11	310	312	2	K917973	WH17164142
RVD17-11	312	314	2	K917974	WH17164142
RVD17-11	314	316	2	K917975	WH17164142
RVD17-11	316	318	2	K917976	WH17164142
RVD17-11	318	320	2	K917977	WH17164142
RVD17-11	320	322	2	K917978	WH17164142
RVD17-11	322	324	2	K917979	WH17164142
RVD17-11	324	326	2	K917981	WH17164142
RVD17-11	326	328	2	K917982	WH17164142
RVD17-11	328	330	2	K917983	WH17164142
RVD17-11	330	332	2	K917984	WH17164142
RVD17-11	332	334	2	K917985	WH17164142
RVD17-11	334	336	2	K917986	WH17164142
RVD17-11	336	338	2	K917987	WH17164142
RVD17-11	338	340	2	K917988	WH17164142
RVD17-11	340	342	2	K917989	WH17164142
RVD17-11	342	344	2	K917991	WH17164142
RVD17-11	344	346	2	K917992	WH17164142
RVD17-11	346	348	2	K917993	WH17164142
RVD17-11	348	350	2	K917994	WH17164142
RVD17-11	350	352	2	K917995	WH17164142
RVD17-11	352	354	2	K917996	WH17164142
RVD17-11	354	356	2	K917997	WH17164142
RVD17-11	356	358	2	K917998	WH17164142
RVD17-11	358	360	2	K917999	WH17164142
RVD17-13	13.72	15	1.28	E443721	WH17164142
RVD17-13	15	17	2	E443722	WH17164142
RVD17-13	17	19	2	E443723	WH17164142

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-13	19	21	2	E443724	WH17164142
RVD17-13	21	23	2	E443725	WH17164142
RVD17-13	23	25	2	E443726	WH17164142
RVD17-13	25	27	2	E443727	WH17164142
RVD17-13	27	29	2	E443728	WH17164142
RVD17-13	29	31	2	E443729	WH17164142
RVD17-13	31	33	2	E443731	WH17164142
RVD17-13	33	35	2	E443732	WH17164142
RVD17-13	35	37	2	E443733	WH17164142
RVD17-13	37	39	2	E443734	WH17164142
RVD17-13	39	41	2	E443735	WH17164142
RVD17-13	41	43	2	E443736	WH17164142
RVD17-13	43	45	2	E443737	WH17164142
RVD17-13	45	47	2	E443738	WH17164142
RVD17-13	47	49	2	E443739	WH17164142
RVD17-13	49	50.41	1.41	E443741	WH17164142
RVD17-13	50.41	52	1.59	E443742	WH17164142
RVD17-13	52	54	2	E443743	WH17164142
RVD17-13	54	56	2	E443744	WH17164142
RVD17-13	56	58	2	E443745	WH17164142
RVD17-13	58	60	2	E443746	WH17164142
RVD17-13	60	62	2	E443747	WH17164142
RVD17-13	62	64	2	E443748	WH17164142
RVD17-13	64	66	2	E443749	WH17164142
RVD17-13	66	68	2	E443751	WH17164142
RVD17-13	68	70	2	E443752	WH17164142
RVD17-13	70	72	2	E443753	WH17164142
RVD17-13	72	74	2	E443754	WH17164142
RVD17-13	74	76	2	E443755	WH17164142
RVD17-13	76	78	2	E443756	WH17164142
RVD17-13	78	80	2	E443757	WH17164142
RVD17-13	80	82	2	E443758	WH17164142
RVD17-13	82	84	2	E443759	WH17164142
RVD17-13	84	85	1	E443761	WH17164142
RVD17-13	85	86.7	1.7	E443762	WH17164142
RVD17-13	86.7	88	1.3	E443763	WH17164142
RVD17-13	88	90	2	E443764	WH17164142
RVD17-13	90	91.44	1.44	E443765	WH17164142
RVD17-13	91.44	94	2.56	E443766	WH17164142
RVD17-13	94	96	2	E443767	WH17164142
RVD17-13	96	98	2	E443771	WH17164166
RVD17-13	98	100	2	E443772	WH17164166
RVD17-13	100	102	2	E443774	WH17164166_revised
RVD17-13	102	104	2	E443775	WH17164166_revised
RVD17-13	104	106	2	E443776	WH17164166_revised
RVD17-13	106	108	2	E443777	WH17164166_revised
RVD17-13	108	110	2	E443778	WH17164166_revised
RVD17-13	110	112	2	E443779	WH17164166_revised
RVD17-13	112	114	2	E443781	WH17164166_revised
RVD17-13	114	116	2	E443782	WH17164166_revised
RVD17-13	116	118	2	E443783	WH17164166_revised
RVD17-13	118	119.49	1.49	E443784	WH17164166_revised
RVD17-13	119.49	121	1.51	E443785	WH17164166_revised
RVD17-13	121	122	1	E443786	WH17164166_revised
RVD17-13	122	123	1	E443787	WH17164166_revised
RVD17-13	123	124	1	E443788	WH17164166_revised
RVD17-13	124	125	1	E443789	WH17164166_revised
RVD17-13	125	126	1	E443791	WH17164166_revised
RVD17-13	126	127	1	E443792	WH17164166_revised
RVD17-13	127	128	1	E443793	WH17164166_revised
RVD17-13	128	129	1	E443794	WH17164166_revised
RVD17-13	129	130	1	E443795	WH17164166_revised
RVD17-13	130	131	1	E443796	WH17164166_revised
RVD17-13	131	132	1	E443797	WH17164166_revised
RVD17-13	132	133	1	E443798	WH17164166_revised
RVD17-13	133	134	1	E443799	WH17164166_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-13	134	135	1	E443801	WH17164166_revised
RVD17-13	135	136	1	E443802	WH17164166_revised
RVD17-13	136	137	1	E443803	WH17164166_revised
RVD17-13	137	138	1	E443804	WH17164166_revised
RVD17-13	138	139	1	E443805	WH17164166_revised
RVD17-13	139	140	1	E443806	WH17164166_revised
RVD17-13	140	141	1	E443807	WH17164166_revised
RVD17-13	141	142	1	E443808	WH17164166_revised
RVD17-13	142	143	1	E443809	WH17164166_revised
RVD17-13	143	144	1	E443811	WH17164166_revised
RVD17-13	144	145	1	E443812	WH17164166_revised
RVD17-13	145	146	1	E443813	WH17164166_revised
RVD17-13	146	147	1	E443814	WH17164166_revised
RVD17-13	147	148	1	E443815	WH17164166_revised
RVD17-13	148	149	1	E443816	WH17164166_revised
RVD17-13	149	150	1	E443817	WH17164166_revised
RVD17-13	150	151	1	E443818	WH17164166_revised
RVD17-13	151	152	1	E443819	WH17164166_revised
RVD17-13	152	153	1	E443821	WH17164166
RVD17-13	153	155	2	E443822	WH17164166
RVD17-13	155	157	2	E443823	WH17164166
RVD17-13	157	159	2	E443824	WH17164166
RVD17-13	159	161	2	E443825	WH17164166
RVD17-13	161	163	2	E443826	WH17164166
RVD17-13	163	165	2	E443827	WH17164166
RVD17-13	165	167	2	E443828	WH17164166
RVD17-13	167	169	2	E443829	WH17164166
RVD17-13	169	171	2	E443831	WH17164166
RVD17-13	171	173	2	E443832	WH17164166
RVD17-13	173	175	2	E443833	WH17164166
RVD17-13	175	177	2	E443834	WH17164166
RVD17-13	177	179	2	E443835	WH17164166
RVD17-13	179	181	2	E443836	WH17164166
RVD17-13	181	183	2	E443837	WH17164166
RVD17-13	183	185	2	E443838	WH17164166
RVD17-13	185	187	2	E443839	WH17164166
RVD17-13	187	189	2	E443841	WH17164166
RVD17-13	189	191	2	E443842	WH17164166
RVD17-13	191	193	2	E443843	WH17164166
RVD17-13	193	195	2	E443844	WH17164166
RVD17-13	195	197	2	E443845	WH17164166
RVD17-13	197	199	2	E443846	WH17164166
RVD17-13	199	201	2	E443847	WH17164166
RVD17-13	201	203	2	E443848	WH17164166
RVD17-13	203	205	2	E443849	WH17164166
RVD17-13	205	207	2	E443851	WH17164166
RVD17-13	207	209	2	E443852	WH17164166
RVD17-13	209	211	2	E443853	WH17164166
RVD17-13	211	213	2	E443854	WH17164166
RVD17-13	213	215	2	E443855	WH17164166
RVD17-13	215	217	2	E443856	WH17164166
RVD17-13	217	219	2	E443857	WH17164166
RVD17-13	219	221	2	E443858	WH17164166
RVD17-13	221	223	2	E443859	WH17164166
RVD17-13	223	225	2	E443861	WH17164166
RVD17-13	225	227	2	E443862	WH17164166
RVD17-13	227	229	2	E443863	WH17164166
RVD17-13	229	231	2	E443864	WH17164166
RVD17-13	231	232.65	1.65	E443865	WH17164166
RVD17-13	232.65	234	1.35	E443866	WH17164166
RVD17-13	234	236	2	E443867	WH17164166
RVD17-13	236	238	2	E443868	WH17164166
RVD17-13	238	240	2	E443869	WH17164166
RVD17-13	240	242	2	E443871	WH17164166
RVD17-13	242	244	2	E443872	WH17164166
RVD17-13	244	246	2	E443873	WH17164166
RVD17-13	246	248	2	E443874	WH17164166
RVD17-13	248	250	2	E443875	WH17164166
RVD17-13	250	252	2	E443876	WH17164166
RVD17-13	252	254	2	E443877	WH17164166
RVD17-13	254	256	2	E443878	WH17164166
RVD17-13	256	258	2	E443879	WH17164166
RVD17-13	258	260	2	E443881	WH17164166
RVD17-13	260	262	2	E443882	WH17164166
RVD17-13	262	264	2	E443883	WH17164166
RVD17-13	264	266	2	E443884	WH17164166
RVD17-13	266	268	2	E443885	WH17164166
RVD17-13	268	270	2	E443886	WH17164166
RVD17-13	270	272	2	E443887	WH17164166
RVD17-13	272	274	2	E443888	WH17164166
RVD17-13	274	275.5	1.5	E443889	WH17164166
RVD17-13	275.5	276.97	1.47	E443891	WH17164166
RVD17-13	276.97	279	2.03	E443892	WH17164166
RVD17-13	279	281	2	E443893	WH17164166
RVD17-13	281	283	2	E443894	WH17164166
RVD17-13	283	285	2	E443895	WH17164166
RVD17-13	285	287	2	E443896	WH17164166
RVD17-13	287	289	2	E443897	WH17164166
RVD17-13	289	291	2	E443898	WH17164166
RVD17-13	291	293	2	E443899	WH17164166
RVD17-13	293	295	2	E443901	WH17164166
RVD17-13	295	297	2	E443902	WH17164166
RVD17-13	297	299	2	E443903	WH17164166
RVD17-13	299	301	2	E443904	WH17164166
RVD17-13	301	303	2	E443905	WH17164166
RVD17-13	303	305	2	E443906	WH17164166
RVD17-13	305	307	2	E443907	WH17164166
RVD17-13	307	309	2	E443908	WH17164166
RVD17-13	309	311	2	E443909	WH17164166
RVD17-13	311	313	2	E443911	WH17164166
RVD17-13	313	315	2	E443912	WH17164166
RVD17-13	315	317	2	E443913	WH17164166
RVD17-13	317	319	2	E443914	WH17164166
RVD17-13	319	321	2	E443915	WH17164166
RVD17-13	321	323	2	E443916	WH17164166
RVD17-13	323	325	2	E443917	WH17164166
RVD17-13	325	327	2	E443918	WH17164166
RVD17-13	327	329	2	E443919	WH17164166
RVD17-13	329	331	2	E443921	WH17164166
RVD17-13	331	333	2	E443922	WH17164166
RVD17-13	333	335	2	E443923	WH17164166
RVD17-13	335	337	2	E443924	WH17164166
RVD17-13	337	338.72	1.72	E443925	WH17164166
RVD17-13	338.72	340	1.28	E443926	WH17164166
RVD17-13	340	342	2	E443927	WH17164166
RVD17-13	342	344	2	E443928	WH17164166
RVD17-13	344	346	2	E443929	WH17164166
RVD17-13	346	348	2	E443931	WH17164166
RVD17-13	348	350	2	E443932	WH17164166
RVD17-13	350	352	2	E443933	WH17164166
RVD17-13	352	354	2	E443934	WH17164166
RVD17-13	354	356	2	E443935	WH17164166
RVD17-13	356	358	2	E443936	WH17164166
RVD17-13	358	360	2	E443937	WH17164166
RVD17-13	360	362	2	E443938	WH17164166
RVD17-13	362	364	2	E443939	WH17164166
RVD17-13	364	366	2	E443941	WH17164323
RVD17-13	366	368	2	E443942	WH17164323
RVD17-13	368	370	2	E443943	WH17164323
RVD17-13	370	372	2	E443944	WH17164323
RVD17-13	372	374	2	E443945	WH17164323
RVD17-13	374	376	2	E443946	WH17164323

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-13	376	378	2	E443947	WH17164323
RVD17-13	378	380	2	E443948	WH17164323
RVD17-13	380	382	2	E443949	WH17164323
RVD17-13	382	384	2	E444351	WH17164323
RVD17-13	384	386	2	E444352	WH17164323
RVD17-13	386	388	2	E444353	WH17164323
RVD17-13	388	390	2	E444354	WH17164323
RVD17-13	390	392	2	E444355	WH17164323
RVD17-13	392	394	2	E444356	WH17164323
RVD17-13	394	396	2	E444357	WH17164323
RVD17-13	396	398	2	E444358	WH17164323
RVD17-13	398	400	2	E444359	WH17164323
RVD17-13	400	402	2	E444361	WH17164323
RVD17-13	402	404	2	E444362	WH17164323
RVD17-13	404	406	2	E444363	WH17164323
RVD17-13	406	408	2	E444364	WH17164323
RVD17-13	408	410	2	E444365	WH17164323
RVD17-13	410	412	2	E444366	WH17164323
RVD17-13	412	414	2	E444367	WH17164323
RVD17-13	414	416	2	E444368	WH17164323
RVD17-13	416	418	2	E444369	WH17164323
RVD17-13	418	420	2	E444371	WH17164323
RVD17-13	420	422	2	E444372	WH17164323
RVD17-13	422	424	2	E444373	WH17164323
RVD17-13	424	426	2	E444374	WH17164323
RVD17-13	426	428	2	E444375	WH17164323
RVD17-13	428	430	2	E444376	WH17164323
RVD17-13	430	432	2	E444377	WH17164323
RVD17-13	432	434	2	E444378	WH17164323
RVD17-13	434	436	2	E444379	WH17164323
RVD17-13	436	438	2	E444381	WH17164323
RVD17-13	438	440	2	E444382	WH17164323
RVD17-13	440	442	2	E444383	WH17164323
RVD17-13	442	444	2	E444384	WH17164323
RVD17-13	444	446	2	E444385	WH17164323
RVD17-13	446	448	2	E444386	WH17164323
RVD17-13	448	450	2	E444387	WH17164323
RVD17-13	450	452.63	2.63	E444388	WH17164323
RVD17-14	33	35	2	I026847	WH17164169
RVD17-14	35	37	2	I026848	WH17164169
RVD17-14	37	39	2	I026849	WH17164169
RVD17-14	39	40.2	1.2	I026851	WH17164169
RVD17-14	40.2	41.4	1.2	I026852	WH17164169
RVD17-14	41.4	43.26	1.86	I026853	WH17164169
RVD17-14	43.26	44.96	1.7	I026854	WH17164169
RVD17-14	44.96	47	2.04	I026855	WH17164169
RVD17-14	47	49	2	I026856	WH17164169
RVD17-14	49	51	2	I026857	WH17164169
RVD17-14	51	53	2	I026858	WH17164169
RVD17-14	53	54.51	1.51	I026859	WH17164169
RVD17-14	54.51	56.5	1.99	I026861	WH17164169
RVD17-14	56.5	58.35	1.85	I026862	WH17164169
RVD17-14	58.35	60.35	2	I026863	WH17164169
RVD17-14	60.35	62.25	1.9	I026864	WH17164169
RVD17-14	62.25	64.25	2	I026865	WH17164169
RVD17-14	64.25	66.1	1.85	I026866	WH17164169
RVD17-14	66.1	68.1	2	I026867	WH17164169
RVD17-14	68.1	70.1	2	I026868	WH17164169
RVD17-14	70.1	72	1.9	I026869	WH17164169
RVD17-14	72	74	2	I026871	WH17164169
RVD17-14	74	76	2	I026872	WH17164169
RVD17-14	76	78	2	I026873	WH17164169
RVD17-14	78	80	2	I026874	WH17164169
RVD17-14	80	82	2	I026875	WH17164169
RVD17-14	82	84	2	I026876	WH17164169
RVD17-14	84	86	2	I026877	WH17164169

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-14	86	88	2	I026878	WH17164169
RVD17-14	88	89.44	1.44	I026879	WH17164169
RVD17-14	89.44	91	1.56	I026881	WH17164169
RVD17-14	91	93	2	I026882	WH17164169
RVD17-14	93	95	2	I026883	WH17164169
RVD17-14	95	97	2	I026884	WH17164169
RVD17-14	97	99	2	I026885	WH17164169
RVD17-14	99	101	2	I026886	WH17164169
RVD17-14	101	103	2	I026887	WH17164169
RVD17-14	103	104.5	1.5	I026888	WH17164169
RVD17-14	104.5	105	0.5	I026889	WH17164169
RVD17-14	105	107	2	I026891	WH17164169
RVD17-14	107	109	2	I026892	WH17164169
RVD17-14	109	111	2	I026893	WH17164169
RVD17-14	111	113	2	I026894	WH17164169
RVD17-14	113	115	2	I026895	WH17164169
RVD17-14	115	117	2	I026896	WH17164169
RVD17-14	117	118	1	I026897	WH17164169
RVD17-14	118	120	2	I026898	WH17154695_revised
RVD17-14	120	122	2	I026899	WH17154695_revised
RVD17-14	122	124	2	I026901	WH17154695_revised
RVD17-14	124	126	2	I026902	WH17154695_revised
RVD17-14	126	128	2	I026903	WH17154695_revised
RVD17-14	128	129	1	I026904	WH17154695_revised
RVD17-14	129	130	1	I026906	WH17154695
RVD17-14	130	130.88	0.88	I026908	WH17154695
RVD17-14	130.88	132	1.12	I026910	WH17154695
RVD17-14	132	134	2	I026911	WH17154695
RVD17-14	134	136	2	I026912	WH17154695
RVD17-14	136	138	2	I026913	WH17154695_revised
RVD17-14	138	140	2	I026914	WH17154695_revised
RVD17-14	140	141	1	I026915	WH17164170
RVD17-14	141	142.53	1.53	I026916	WH17164170
RVD17-14	142.53	144.62	2.09	I026917	WH17164170
RVD17-14	144.62	146	1.38	I026918	WH17164170
RVD17-14	146	148	2	I026919	WH17164170
RVD17-14	148	149.7	1.7	I026921	WH17164170
RVD17-14	149.7	151	1.3	I026922	WH17164170
RVD17-14	151	152.89	1.89	I026923	WH17164170
RVD17-14	152.89	154	1.11	I026924	WH17164170
RVD17-14	154	156	2	I026925	WH17164170
RVD17-14	156	158	2	I026926	WH17164170
RVD17-14	158	160	2	I026927	WH17164170
RVD17-14	160	162	2	I026928	WH17164170
RVD17-14	162	164	2	I026929	WH17164170
RVD17-14	164	166	2	I026931	WH17164170
RVD17-14	166	168	2	I026932	WH17164170
RVD17-14	168	169.16	1.16	I026933	WH17164170
RVD17-14	169.16	171	1.84	I026934	WH17164170
RVD17-14	171	173	2	I026935	WH17164170
RVD17-14	173	175	2	I026936	WH17164170
RVD17-14	175	177	2	I026937	WH17164170
RVD17-14	177	179	2	I026938	WH17164170
RVD17-14	179	181	2	I026939	WH17164170
RVD17-14	181	183	2	I026941	WH17164170
RVD17-14	183	185	2	I026942	WH17164170
RVD17-14	185	187	2	I026943	WH17164170
RVD17-14	187	189	2	I026944	WH17164170
RVD17-14	189	191	2	I026945	WH17164170
RVD17-14	191	193.2	2.2	I026946	WH17164170
RVD17-14	193.2	195	1.8	I026947	WH17164170
RVD17-14	195	197	2	I026948	WH17164170
RVD17-14	197	199	2	I026949	WH17164170
RVD17-14	199	201	2	I026951	WH17164170
RVD17-14	201	203	2	I026952	WH17164170
RVD17-14	203	205	2	I026953	WH17164170

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-14	205	206	1	I026954	WH17164170
RVD17-14	206	207.47	1.47	I026955	WH17164170
RVD17-14	207.47	209	1.53	I026956	WH17164170
RVD17-14	209	211	2	I026957	WH17164170
RVD17-14	211	213	2	I026958	WH17164170
RVD17-14	213	214.79	1.79	I026959	WH17164170
RVD17-14	214.79	216	1.21	I026961	WH17164170
RVD17-14	216	217	1	I026962	WH17164170
RVD17-14	217	219	2	I026963	WH17164170
RVD17-14	219	221	2	I026964	WH17164170
RVD17-14	221	223	2	I026965	WH17164170
RVD17-14	223	225	2	I026966	WH17164170
RVD17-14	225	227	2	I026967	WH17164170
RVD17-14	227	229	2	I026968	WH17164170
RVD17-14	229	231	2	I026969	WH17164170
RVD17-14	231	233	2	I026971	WH17164170
RVD17-14	233	235	2	I026972	WH17164170
RVD17-14	235	237	2	I026973	WH17164170
RVD17-14	237	239	2	I026974	WH17164170
RVD17-14	239	241	2	I026975	WH17164170
RVD17-14	241	243	2	I026976	WH17164170
RVD17-14	243	245	2	I026977	WH17164170
RVD17-14	245	247	2	I026978	WH17164170
RVD17-14	247	249	2	I026979	WH17164170
RVD17-14	249	250	1	I026981	WH17164170
RVD17-14	250	252	2	I026982	WH17164170
RVD17-14	252	254	2	I026983	WH17164170
RVD17-14	254	256	2	I026984	WH17164170
RVD17-14	256	258	2	I026985	WH17164170
RVD17-14	258	260	2	I026986	WH17164170
RVD17-14	260	262	2	I026987	WH17164170
RVD17-14	262	264	2	I026988	WH17164170
RVD17-14	264	266	2	I026989	WH17164170
RVD17-14	266	268	2	I026991	WH17164170
RVD17-14	268	270	2	I026992	WH17164170
RVD17-14	270	272	2	I026993	WH17164170
RVD17-14	272	274	2	I026994	WH17164170
RVD17-14	274	276	2	I026995	WH17164170
RVD17-14	276	278	2	I026996	WH17164170
RVD17-14	278	280	2	I026997	WH17164170
RVD17-14	280	282	2	I026998	WH17164170
RVD17-14	282	284	2	I026999	WH17164170
RVD17-14	284	286	2	I027001	WH17164170
RVD17-14	286	288	2	I027002	WH17164170
RVD17-14	288	289	1	I027003	WH17164170
RVD17-14	289	290.34	1.34	I027004	WH17164170
RVD17-14	290.34	292	1.66	I027005	WH17164170
RVD17-14	292	293.51	1.51	I027006	WH17164170
RVD17-14	293.51	295	1.49	I027007	WH17164170
RVD17-14	295	297	2	I027008	WH17164170
RVD17-14	297	299	2	I027009	WH17164170
RVD17-14	299	301	2	I027011	WH17164170
RVD17-14	301	303	2	I027012	WH17164170
RVD17-14	303	305	2	I027013	WH17164170
RVD17-14	305	307	2	I027014	WH17164170
RVD17-14	307	309	2	I027015	WH17164170
RVD17-14	309	311	2	I027016	WH17164170
RVD17-14	311	313	2	I027017	WH17164170
RVD17-14	313	315	2	I027018	WH17164170
RVD17-14	315	317	2	I027019	WH17164170
RVD17-14	317	319	2	I027021	WH17164170
RVD17-14	319	321	2	I027022	WH17164170
RVD17-14	321	323	2	I027023	WH17164170
RVD17-14	323	325	2	I027024	WH17164170
RVD17-14	325	327	2	I027025	WH17164170
RVD17-14	327	329	2	I027026	WH17164170
RVD17-14	329	331	2	I027027	WH17164170
RVD17-14	331	333	2	I027028	WH17164170
RVD17-14	333	335	2	I027029	WH17164170
RVD17-14	335	337	2	I027031	WH17164170
RVD17-14	337	339	2	I027032	WH17164170
RVD17-14	339	340	1	I027033	WH17164170
RVD17-14	340	341.38	1.38	I027034	WH17164170
RVD17-15	26.43	28	1.57	I027036	WH17164170
RVD17-15	28	29	1	I027037	WH17164170
RVD17-15	29	31	2	I027038	WH17164170
RVD17-15	31	33	2	I027039	WH17164170
RVD17-15	33	35	2	I027041	WH17164170
RVD17-15	35	37	2	I027042	WH17164170
RVD17-15	37	39	2	I027043	WH17164170
RVD17-15	39	41	2	I027044	WH17164170
RVD17-15	41	43	2	I027045	WH17164170
RVD17-15	43	45	2	I027046	WH17164170
RVD17-15	45	47	2	I027047	WH17164170
RVD17-15	47	49	2	I027048	WH17164170
RVD17-15	49	51	2	I027049	WH17164170
RVD17-15	51	52	1	I027051	WH17164170
RVD17-15	52	53.66	1.66	I027052	WH17164170
RVD17-15	53.66	55	1.34	I027053	WH17164170
RVD17-15	55	57	2	I027054	WH17164170
RVD17-15	57	59	2	I027055	WH17164170
RVD17-15	59	61	2	I027056	WH17164323
RVD17-15	61	63	2	I027057	WH17164323
RVD17-15	63	65	2	I027058	WH17164323
RVD17-15	65	67	2	I027059	WH17164323
RVD17-15	67	69	2	I027061	WH17164323
RVD17-15	69	71	2	I027062	WH17164323
RVD17-15	71	73	2	I027063	WH17164323
RVD17-15	73	75	2	I027064	WH17164323
RVD17-15	75	77	2	I027065	WH17164323
RVD17-15	77	79	2	I027066	WH17164323
RVD17-15	79	81.24	2.24	I027067	WH17164323
RVD17-15	81.24	83	1.76	I027068	WH17164323
RVD17-15	83	85	2	I027069	WH17164323
RVD17-15	85	87	2	I027071	WH17164323
RVD17-15	87	89	2	I027072	WH17164323
RVD17-15	89	90	1	I027073	WH17164323
RVD17-15	90	91	1	I027074	WH17164323
RVD17-15	91	93.08	2.08	I027075	WH17164323
RVD17-15	93.08	95	1.92	I027076	WH17164323
RVD17-15	95	97	2	I027077	WH17164323
RVD17-15	97	99	2	I027078	WH17164323
RVD17-15	99	101	2	I027079	WH17164323
RVD17-15	101	103	2	I027081	WH17164323
RVD17-15	103	105	2	I027082	WH17164323
RVD17-15	105	107	2	I027083	WH17164323
RVD17-15	107	109	2	I027084	WH17164323
RVD17-15	109	111	2	I027085	WH17164323
RVD17-15	111	113	2	I027086	WH17164323
RVD17-15	113	115	2	I027087	WH17164323
RVD17-15	115	117	2	I027088	WH17164323
RVD17-15	117	119	2	I027089	WH17164323
RVD17-15	119	121	2	I027091	WH17164323
RVD17-15	121	123	2	I027092	WH17164323
RVD17-15	123	125	2	I027093	WH17164323
RVD17-15	125	127	2	I027094	WH17164323
RVD17-15	127	129	2	I027095	WH17164323
RVD17-15	129	131	2	I027096	WH17164323
RVD17-15	131	133	2	I027097	WH17164323
RVD17-15	133	135	2	I027098	WH17164323
RVD17-15	135	136.42	1.42	I027099	WH17164323
RVD17-15	136.42	138	1.58	I027101	WH17164323

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-15	138	140	2	I027102	WH17164323
RVD17-15	140	142	2	I027103	WH17164323
RVD17-15	142	144	2	I027104	WH17164323
RVD17-15	144	146	2	I027105	WH17164323
RVD17-15	146	148	2	I027106	WH17164323
RVD17-15	148	150	2	I027107	WH17164323
RVD17-15	150	152	2	I027108	WH17164323
RVD17-15	152	154	2	I027109	WH17164323
RVD17-15	154	156	2	I027111	WH17164323
RVD17-15	156	158	2	I027112	WH17164323
RVD17-15	158	160	2	I027113	WH17164323
RVD17-15	160	161	1	I027114	WH17164323
RVD17-15	161	163	2	I027116	WH17164323
RVD17-15	163	164.93	1.93	I027117	WH17164323
RVD17-15	164.93	166	1.07	I027118	WH17164323
RVD17-15	166	168	2	I027119	WH17164323
RVD17-15	168	169.54	1.54	I027121	WH17164323
RVD17-15	169.54	171	1.46	I027122	WH17164323
RVD17-15	171	173	2	I027123	WH17164323
RVD17-15	173	175	2	I027124	WH17164323
RVD17-15	175	177	2	I027125	WH17164323
RVD17-15	177	179	2	I027126	WH17164323
RVD17-15	179	181	2	I027127	WH17164323
RVD17-15	181	183	2	I027128	WH17164323
RVD17-15	183	185	2	I027129	WH17164323
RVD17-15	185	186.05	1.05	I027131	WH17164323
RVD17-15	186.05	187.18	1.13	I027132	WH17164323
RVD17-15	187.18	188	0.82	I027133	WH17164323
RVD17-15	188	189.87	1.87	I027134	WH17164323
RVD17-15	189.87	191	1.13	I027135	WH17164323
RVD17-15	191	192.75	1.75	I027136	WH17164323
RVD17-15	192.75	194	1.25	I027137	WH17164323
RVD17-15	194	196	2	I027138	WH17164323
RVD17-15	196	198	2	I027139	WH17164323
RVD17-15	198	200	2	I027141	WH17164323
RVD17-15	200	202	2	I027142	WH17164323
RVD17-15	202	204	2	I027143	WH17164323
RVD17-15	204	206	2	I027144	WH17164323
RVD17-15	206	207.8	1.8	I027145	WH17164323
RVD17-15	207.8	209	1.2	I027146	WH17164323
RVD17-15	209	211	2	I027147	WH17164323
RVD17-15	211	213	2	I027148	WH17168300
RVD17-15	213	215	2	I027149	WH17168300
RVD17-15	215	217	2	I027151	WH17168300
RVD17-15	217	219	2	I027152	WH17168300
RVD17-15	219	221	2	I027153	WH17168300
RVD17-15	221	223	2	I027154	WH17168300
RVD17-15	223	224	1	I027155	WH17168300
RVD17-15	224	225.34	1.34	I027156	WH17168300
RVD17-15	225.34	227	1.66	I027157	WH17168300
RVD17-15	227	228.1	1.1	I027158	WH17168300
RVD17-15	228.1	230.12	2.02	I027159	WH17168300
RVD17-15	230.12	232	1.88	I027161	WH17168300
RVD17-15	232	234	2	I027162	WH17168300
RVD17-15	234	235.1	1.1	I027163	WH17168300
RVD17-15	235.1	237	1.9	I027164	WH17168300
RVD17-15	237	239	2	I027165	WH17168300
RVD17-15	239	241	2	I027166	WH17168300
RVD17-15	241	243	2	I027167	WH17168300
RVD17-15	243	244	1	I027168	WH17168300
RVD17-15	244	245.16	1.16	I027169	WH17168300
RVD17-12	5	7	2	I026536	WH17156183_revised
RVD17-12	7	9	2	I026537	WH17156183_revised
RVD17-12	9	11	2	I026538	WH17156183_revised
RVD17-12	11	13	2	I026539	WH17156183_revised
RVD17-12	13	15	2	I026541	WH17156183_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-12	15	17	2	I026542	WH17156183_revised
RVD17-12	17	19	2	I026543	WH17156183_revised
RVD17-12	19	21	2	I026544	WH17156183_revised
RVD17-12	21	23	2	I026545	WH17156183_revised
RVD17-12	23	25	2	I026546	WH17156183_revised
RVD17-12	25	27	2	I026547	WH17156183_revised
RVD17-12	27	29	2	I026548	WH17156183_revised
RVD17-12	29	31	2	I026549	WH17156183_revised
RVD17-12	31	33	2	I026551	WH17156183_revised
RVD17-12	33	35	2	I026552	WH17156183_revised
RVD17-12	35	37	2	I026553	WH17156183_revised
RVD17-12	37	39	2	I026554	WH17156183_revised
RVD17-12	39	41	2	I026555	WH17156183_revised
RVD17-12	41	43	2	I026556	WH17156183_revised
RVD17-12	43	45	2	I026557	WH17156183_revised
RVD17-12	45	47	2	I026558	WH17156183_revised
RVD17-12	47	49	2	I026559	WH17156183_revised
RVD17-12	49	51	2	I026561	WH17156183_revised
RVD17-12	51	53	2	I026562	WH17156183_revised
RVD17-12	53	55	2	I026563	WH17156183_revised
RVD17-12	55	57	2	I026564	WH17156183_revised
RVD17-12	57	58.03	1.03	I026565	WH17156183_revised
RVD17-12	58.03	60	1.97	I026566	WH17156183_revised
RVD17-12	60	61.5	1.5	I026567	WH17156183_revised
RVD17-12	61.5	63	1.5	I026568	WH17156183_revised
RVD17-12	63	64	1	I026569	WH17156183_revised
RVD17-12	64	65.43	1.43	I026571	WH17156183_revised
RVD17-12	65.43	67	1.57	I026572	WH17156183_revised
RVD17-12	67	69	2	I026573	WH17156183_revised
RVD17-12	69	71	2	I026574	WH17156183_revised
RVD17-12	71	73	2	I026575	WH17156183_revised
RVD17-12	73	75	2	I026576	WH17156183_revised
RVD17-12	75	77	2	I026577	WH17156183_revised
RVD17-12	77	79	2	I026578	WH17156183_revised
RVD17-12	79	80.5	1.5	I026579	WH17156183_revised
RVD17-12	80.5	82	1.5	I026581	WH17156183_revised
RVD17-12	82	83.5	1.5	I026582	WH17156183_revised
RVD17-12	83.5	85	1.5	I026583	WH17156183_revised
RVD17-12	85	86.5	1.5	I026584	WH17156183_revised
RVD17-12	86.5	88	1.5	I026585	WH17156183_revised
RVD17-12	88	89.5	1.5	I026586	WH17156183_revised
RVD17-12	89.5	91	1.5	I026587	WH17156183_revised
RVD17-12	91	92.5	1.5	I026588	WH17156183_revised
RVD17-12	92.5	94	1.5	I026589	WH17156183_revised
RVD17-12	94	95.5	1.5	I026591	WH17156183_revised
RVD17-12	95.5	97	1.5	I026592	WH17156183_revised
RVD17-12	97	98.5	1.5	I026593	WH17156183_revised
RVD17-12	98.5	100	1.5	I026594	WH17156183_revised
RVD17-12	100	101.5	1.5	I026595	WH17156183_revised
RVD17-12	101.5	103	1.5	I026596	WH17156183_revised
RVD17-12	103	104.5	1.5	I026597	WH17156183_revised
RVD17-12	104.5	106	1.5	I026598	WH17156183_revised
RVD17-12	106	107.5	1.5	I026599	WH17156183_revised
RVD17-12	107.5	109	1.5	I026601	WH17156183_revised
RVD17-12	109	110.5	1.5	I026602	WH17156183_revised
RVD17-12	110.5	112	1.5	I026603	WH17156183_revised
RVD17-12	112	113.5	1.5	I026604	WH17156183_revised
RVD17-12	113.5	115	1.5	I026605	WH17156183_revised
RVD17-12	115	116.5	1.5	I026606	WH17156183_revised
RVD17-12	116.5	118	1.5	I026607	WH17156183_revised
RVD17-12	118	119.5	1.5	I026608	WH17156183_revised
RVD17-12	119.5	121	1.5	I026609	WH17156183_revised
RVD17-12	121	122.5	1.5	I026611	WH17156183_revised
RVD17-12	122.5	124	1.5	I026612	WH17156183_revised
RVD17-12	124	125.5	1.5	I026613	WH17156183_revised
RVD17-12	125.5	127	1.5	I026614	WH17156183_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-12	127	128.5	1.5	I026615	WH17156183_revised
RVD17-12	128.5	130	1.5	I026616	WH17156183_revised
RVD17-12	130	131.5	1.5	I026617	WH17156183_revised
RVD17-12	131.5	133	1.5	I026618	WH17156183_revised
RVD17-12	133	134.5	1.5	I026619	WH17156183_revised
RVD17-12	134.5	136	1.5	I026621	WH17156183_revised
RVD17-12	136	137.5	1.5	I026622	WH17156183_revised
RVD17-12	137.5	139	1.5	I026623	WH17156183_revised
RVD17-12	139	140.5	1.5	I026624	WH17156183_revised
RVD17-12	140.5	142	1.5	I026625	WH17156183_revised
RVD17-12	142	143.5	1.5	I026626	WH17156183_revised
RVD17-12	143.5	145	1.5	I026627	WH17156183_revised
RVD17-12	145	146.5	1.5	I026628	WH17156183_revised
RVD17-12	146.5	148	1.5	I026629	WH17156183_revised
RVD17-12	148	149.5	1.5	I026631	WH17156183_revised
RVD17-12	149.5	151	1.5	I026632	WH17156183_revised
RVD17-12	151	152.62	1.62	I026633	WH17156183_revised
RVD17-12	152.62	154	1.38	I026634	WH17156183_revised
RVD17-12	154	155.5	1.5	I026635	WH17156183_revised
RVD17-12	155.5	156.64	1.14	I026636	WH17156183_revised
RVD17-12	156.64	158	1.36	I026637	WH17156183_revised
RVD17-12	158	159.5	1.5	I026638	WH17156183_revised
RVD17-12	159.5	161	1.5	I026639	WH17156183_revised
RVD17-12	161	162.5	1.5	I026641	WH17156183_revised
RVD17-12	162.5	164	1.5	I026642	WH17156183_revised
RVD17-12	164	165.5	1.5	I026643	WH17156183_revised
RVD17-12	165.5	167	1.5	I026644	WH17156183_revised
RVD17-12	167	168.5	1.5	I026645	WH17156183_revised
RVD17-12	168.5	170	1.5	I026646	WH17156183_revised
RVD17-12	170	171.5	1.5	I026647	WH17156183_revised
RVD17-12	171.5	173	1.5	I026648	WH17156183_revised
RVD17-12	173	174.5	1.5	I026649	WH17156183_revised
RVD17-12	174.5	176	1.5	I026651	WH17156183_revised
RVD17-12	176	177.5	1.5	I026652	WH17156183_revised
RVD17-12	177.5	179	1.5	I026653	WH17156183_revised
RVD17-12	179	180.5	1.5	I026654	WH17156183_revised
RVD17-12	180.5	182	1.5	I026655	WH17156183_revised
RVD17-12	182	183.5	1.5	I026656	WH17156183_revised
RVD17-12	183.5	185	1.5	I026657	WH17156183_revised
RVD17-12	185	186.5	1.5	I026658	WH17156183_revised
RVD17-12	186.5	188	1.5	I026659	WH17156183_revised
RVD17-12	188	189.5	1.5	I026661	WH17156183_revised
RVD17-12	189.5	191	1.5	I026662	WH17156183_revised
RVD17-12	191	192.5	1.5	I026663	WH17156183_revised
RVD17-12	192.5	194	1.5	I026664	WH17156183_revised
RVD17-12	194	195.5	1.5	I026665	WH17156183_revised
RVD17-12	195.5	197	1.5	I026666	WH17156183_revised
RVD17-12	197	198.5	1.5	I026667	WH17156183_revised
RVD17-12	198.5	200	1.5	I026668	WH17156183_revised
RVD17-12	200	201.5	1.5	I026669	WH17156183_revised
RVD17-12	201.5	203	1.5	I026671	WH17156183_revised
RVD17-12	203	204.5	1.5	I026672	WH17156183_revised
RVD17-12	204.5	206	1.5	I026673	WH17156183_revised
RVD17-12	206	207.5	1.5	I026674	WH17156183_revised
RVD17-12	207.5	209	1.5	I026675	WH17156183_revised
RVD17-12	209	210.5	1.5	I026676	WH17156183_revised
RVD17-12	210.5	212	1.5	I026677	WH17156183_revised
RVD17-12	212	213.5	1.5	I026678	WH17156183_revised
RVD17-12	213.5	215	1.5	I026679	WH17156183_revised
RVD17-12	215	216.5	1.5	I026681	WH17156183_revised
RVD17-12	216.5	218	1.5	I026682	WH17156183_revised
RVD17-12	218	219.5	1.5	I026683	WH17156183_revised
RVD17-12	219.5	221	1.5	I026684	WH17156183_revised
RVD17-12	221	222.5	1.5	I026685	WH17156183_revised
RVD17-12	222.5	224	1.5	I026686	WH17156183_revised
RVD17-12	224	225.5	1.5	I026687	WH17156183_revised
RVD17-12	225.5	227	1.5	I026688	WH17156183_revised
RVD17-12	227	228.5	1.5	I026689	WH17156183_revised
RVD17-12	228.5	230	1.5	I026691	WH17156183_revised
RVD17-12	230	231.5	1.5	I026692	WH17156183_revised
RVD17-12	231.5	233	1.5	I026693	WH17156183_revised
RVD17-12	233	234.5	1.5	I026694	WH17156183_revised
RVD17-12	234.5	236	1.5	I026695	WH17156183_revised
RVD17-12	236	237.5	1.5	I026696	WH17156183_revised
RVD17-12	237.5	238.8	1.3	I026697	WH17156183_revised
RVD17-12	238.8	240	1.2	I026698	WH17156183_revised
RVD17-12	240	241.5	1.5	I026699	WH17156183_revised
RVD17-12	241.5	243	1.5	I026701	WH17156183_revised
RVD17-12	243	244.5	1.5	I026702	WH17156183_revised
RVD17-12	244.5	246	1.5	I026703	WH17156183_revised
RVD17-12	246	247.5	1.5	I026704	WH17156183_revised
RVD17-12	247.5	249	1.5	I026705	WH17156183_revised
RVD17-12	249	250	1	I026706	WH17156183_revised
RVD17-12	250	251.35	1.35	I026707	WH17156183_revised
RVD17-12	251.35	252	0.65	I026709	WH17156183_revised
RVD17-12	252	253	1	I026711	WH17156183_revised
RVD17-12	253	254	1	I026712	WH17156183_revised
RVD17-12	254	255	1	I026713	WH17156183_revised
RVD17-12	255	256	1	I026714	WH17156183_revised
RVD17-12	256	257	1	I026715	WH17156183_revised
RVD17-12	257	258	1	I026716	WH17156183_revised
RVD17-12	258	259	1	I026717	WH17156183_revised
RVD17-12	259	260	1	I026718	WH17156183_revised
RVD17-12	260	261	1	I026720	WH17156183_revised
RVD17-12	261	262	1	I026721	WH17156183_revised
RVD17-12	262	263	1	I026722	WH17156183_revised
RVD17-12	263	264	1	I026723	WH17156183_revised
RVD17-12	264	265	1	I026724	WH17156183_revised
RVD17-12	265	266	1	I026725	WH17156183_revised
RVD17-12	266	267	1	I026726	WH17156183_revised
RVD17-12	267	268	1	I026727	WH17156183_revised
RVD17-12	268	269	1	I026728	WH17156183_revised
RVD17-12	269	270	1	I026730	WH17156183_revised
RVD17-12	270	271	1	I026732	WH17156183_revised
RVD17-12	271	272.5	1.5	I026734	WH17156183_revised
RVD17-12	272.5	274	1.5	I026735	WH17156183_revised
RVD17-12	274	275.5	1.5	I026736	WH17156183_revised
RVD17-12	275.5	277	1.5	I026737	WH17156183_revised
RVD17-12	277	278.5	1.5	I026738	WH17156183_revised
RVD17-12	278.5	280	1.5	I026739	WH17156183_revised
RVD17-12	280	281.5	1.5	I026741	WH17156183_revised
RVD17-12	281.5	283	1.5	I026742	WH17164142
RVD17-12	283	284.5	1.5	I026743	WH17164169
RVD17-12	284.5	286	1.5	I026744	WH17164169
RVD17-12	286	287.5	1.5	I026745	WH17164169
RVD17-12	287.5	289	1.5	I026746	WH17164169
RVD17-12	289	290.5	1.5	I026747	WH17164169
RVD17-12	290.5	292	1.5	I026748	WH17164169
RVD17-12	292	293.5	1.5	I026749	WH17164169
RVD17-12	293.5	295	1.5	I026751	WH17164169
RVD17-12	295	296	1	I026752	WH17164169
RVD17-12	296	297	1	I026753	WH17164169
RVD17-12	297	298	1	I026754	WH17164169
RVD17-12	298	299.5	1.5	I026755	WH17164169
RVD17-12	299.5	301	1.5	I026756	WH17164169
RVD17-12	301	302.5	1.5	I026757	WH17164169
RVD17-12	302.5	304	1.5	I026758	WH17164169
RVD17-12	304	305.5	1.5	I026759	WH17164169
RVD17-12	305.5	307	1.5	I026761	WH17164169
RVD17-12	307	308.5	1.5	I026762	WH17164169
RVD17-12	308.5	310	1.5	I026763	WH17164169
RVD17-12	310	311.5	1.5	I026764	WH17164169

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
RVD17-12	311.5	313	1.5	I026765	WH17164169
RVD17-12	313	314.5	1.5	I026766	WH17164169
RVD17-12	314.5	316	1.5	I026767	WH17164169
RVD17-12	316	317.5	1.5	I026768	WH17164169
RVD17-12	317.5	319	1.5	I026769	WH17164169
RVD17-12	319	320.5	1.5	I026771	WH17164169
RVD17-12	320.5	322	1.5	I026772	WH17164169
RVD17-12	322	323.5	1.5	I026773	WH17164169
RVD17-12	323.5	325	1.5	I026774	WH17164169
RVD17-12	325	326.5	1.5	I026775	WH17164169
RVD17-12	326.5	328	1.5	I026776	WH17164169
RVD17-12	328	329.5	1.5	I026777	WH17164169
RVD17-12	329.5	331	1.5	I026778	WH17164169
RVD17-12	331	332.5	1.5	I026779	WH17164169
RVD17-12	332.5	334	1.5	I026781	WH17164169
RVD17-12	334	335.5	1.5	I026782	WH17164169
RVD17-12	335.5	337	1.5	I026783	WH17164169
RVD17-12	337	338.5	1.5	I026784	WH17164169
RVD17-12	338.5	340	1.5	I026785	WH17164169
RVD17-12	340	341.5	1.5	I026786	WH17164169
RVD17-12	341.5	343	1.5	I026787	WH17164169
RVD17-12	343	344.5	1.5	I026788	WH17164169
RVD17-12	344.5	346	1.5	I026789	WH17164169
RVD17-12	346	347.5	1.5	I026791	WH17164169
RVD17-12	347.5	349	1.5	I026792	WH17164169
RVD17-12	349	350.5	1.5	I026793	WH17164169
RVD17-12	350.5	352	1.5	I026794	WH17164169
RVD17-12	352	353.5	1.5	I026795	WH17164169
RVD17-12	353.5	355	1.5	I026796	WH17164169
RVD17-12	355	356.5	1.5	I026797	WH17164169
RVD17-12	356.5	358	1.5	I026798	WH17164169
RVD17-12	358	359.5	1.5	I026799	WH17164169
RVD17-12	359.5	361	1.5	I026801	WH17164169
RVD17-12	361	362.5	1.5	I026802	WH17164169
RVD17-12	362.5	364	1.5	I026803	WH17164169
RVD17-12	364	365.5	1.5	I026804	WH17164169
RVD17-12	365.5	367	1.5	I026805	WH17164169
RVD17-12	367	368.5	1.5	I026806	WH17164169
RVD17-12	368.5	370	1.5	I026807	WH17164169
RVD17-12	370	371.5	1.5	I026808	WH17164169
RVD17-12	371.5	373	1.5	I026809	WH17164169
RVD17-12	373	374.5	1.5	I026811	WH17164169
RVD17-12	374.5	376	1.5	I026812	WH17164169
RVD17-12	376	377.5	1.5	I026813	WH17164169
RVD17-12	377.5	379	1.5	I026814	WH17164169
RVD17-12	379	380.5	1.5	I026815	WH17164169
RVD17-12	380.5	382	1.5	I026816	WH17164169
RVD17-12	382	383.5	1.5	I026817	WH17164169
RVD17-12	383.5	385	1.5	I026818	WH17164169
RVD17-12	385	386.5	1.5	I026819	WH17164169
RVD17-12	386.5	388	1.5	I026821	WH17164169
RVD17-12	388	389.5	1.5	I026822	WH17164169
RVD17-12	389.5	391	1.5	I026823	WH17164169
RVD17-12	391	392.5	1.5	I026824	WH17164169
RVD17-12	392.5	394	1.5	I026825	WH17164169
RVD17-12	394	395.5	1.5	I026826	WH17164169
RVD17-12	395.5	397	1.5	I026827	WH17164169
RVD17-12	397	398.5	1.5	I026828	WH17164169
RVD17-12	398.5	400	1.5	I026829	WH17164169
RVD17-12	400	401.5	1.5	I026831	WH17164169
RVD17-12	401.5	403	1.5	I026832	WH17164169
RVD17-12	403	404.5	1.5	I026833	WH17164169
RVD17-12	404.5	406	1.5	I026834	WH17164169
RVD17-12	406	407.5	1.5	I026835	WH17164169
RVD17-12	407.5	409	1.5	I026836	WH17164169
RVD17-12	409	410.5	1.5	I026837	WH17164169
RVD17-12	410.5	412	1.5	I026838	WH17164169
RVD17-12	412	413.5	1.5	I026839	WH17164169
RVD17-12	413.5	415	1.5	I026841	WH17164169
RVD17-12	415	416.5	1.5	I026842	WH17164169
RVD17-12	416.5	418	1.5	I026843	WH17164169
RVD17-12	418	419.5	1.5	I026844	WH17164169
RVD17-12	419.5	421	1.5	I026845	WH17164169
RVD17-12	421	422.91	1.91	I026846	WH17164169
N17-14	405	407	2	W640401	WH17191964
N17-14	407	409	2	W640402	WH17191964
N17-14	409	411	2	W640403	WH17191964
N17-14	411	413	2	W640404	WH17191964
N17-14	413	415	2	W640405	WH17191964
N17-14	415	417	2	W640406	WH17191964
N17-14	417	419	2	W640407	WH17191964
N17-14	419	421	2	W640408	WH17191964
N17-14	421	423	2	W640409	WH17191964
N17-14	423	425	2	W640411	WH17191964
N17-14	425	427	2	W640412	WH17191964
N17-14	427	429	2	W640413	WH17191964
N17-14	429	431	2	W640414	WH17191964
N17-14	431	433	2	W640415	WH17191964
N17-14	433	435	2	W640416	WH17191964
N17-14	435	437	2	W640417	WH17191964
N17-14	437	439	2	W640418	WH17191964
N17-14	439	441	2	W640419	WH17191964
N17-14	441	443	2	W640421	WH17191964
N17-14	443	445	2	W640422	WH17191964
N17-14	445	447	2	W640423	WH17191964
N17-14	447	449	2	W640424	WH17191964
N17-14	449	450	1	W640425	WH17191964
N17-14	450	452	2	W640426	WH17191964
N17-14	452	454	2	W640427	WH17191964
N17-14	454	456	2	W640428	WH17191964
N17-14	456	458.11	2.11	W640429	WH17191964
N17-14	458.11	460	1.89	W640431	WH17191964
N17-14	460	462	2	W640432	WH17191964
N17-14	462	464	2	W640433	WH17191964
N17-14	464	466	2	W640434	WH17191964
N17-14	466	468	2	W640435	WH17191964
N17-14	468	470	2	W640436	WH17191964
N17-14	470	472	2	W640437	WH17191964
N17-14	472	474	2	W640438	WH17191964
N17-14	474	476	2	W640439	WH17191964
N17-14	476	478	2	W640441	WH17191964
N17-14	478	480	2	W640442	WH17191964
N17-14	480	482	2	W640443	WH17191964
N17-14	482	484	2	W640444	WH17191964
N17-14	484	486	2	W640445	WH17191964
N17-14	486	488	2	W640446	WH17191964
N17-14	488	489.5	1.5	W640447	WH17191964
N17-14	489.5	490.73	1.23	W640448	WH17191964
KZ17-01	50.34	52	1.66	W639772	WH17191958
KZ17-01	52	54	2	W639773	WH17191958
KZ17-01	54	56	2	W639774	WH17191958
KZ17-01	56	58	2	W639775	WH17191958
KZ17-01	58	60	2	W639776	WH17191958
KZ17-01	60	62	2	W639777	WH17191958
KZ17-01	62	64	2	W639778	WH17191958
KZ17-01	64	66	2	W639779	WH17191958
KZ17-01	66	68	2	W639781	WH17191958
KZ17-01	68	70	2	W639782	WH17191958
KZ17-01	70	72	2	W639783	WH17191958
KZ17-01	72	74	2	W639784	WH17191958
KZ17-01	74	76	2	W639785	WH17191958
KZ17-01	76	78	2	W639786	WH17191958

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
KZ17-01	78	80	2	W639787	WH17191958
KZ17-01	80	82	2	W639788	WH17191958
KZ17-01	82	84	2	W639789	WH17191958
KZ17-01	84	86	2	W639791	WH17191958
KZ17-01	86	88	2	W639792	WH17191958
KZ17-01	88	90	2	W639793	WH17191958
KZ17-01	90	92	2	W639794	WH17191958
KZ17-01	92	94	2	W639795	WH17191958
KZ17-01	94	96	2	W639796	WH17191958
KZ17-01	96	98	2	W639797	WH17191958
KZ17-01	98	100	2	W639798	WH17191958
KZ17-01	100	101.96	1.96	W639799	WH17191958
KZ17-01	101.96	104	2.04	W639801	WH17191958
KZ17-01	104	106	2	W639802	WH17191958
KZ17-01	106	108	2	W639803	WH17191958
KZ17-01	108	110	2	W639804	WH17191958
KZ17-01	110	112	2	W639805	WH17191958
KZ17-01	112	114	2	W639806	WH17191958
KZ17-01	114	116	2	W639807	WH17191958
KZ17-01	116	118	2	W639808	WH17191958
KZ17-01	118	120	2	W639809	WH17191958
KZ17-01	120	122	2	W639811	WH17191958
KZ17-01	122	124	2	W639812	WH17191958
KZ17-01	124	126	2	W639813	WH17191958
KZ17-01	126	127.5	1.5	W639814	WH17191958
KZ17-01	127.5	128.7	1.2	W639815	WH17191958
KZ17-01	128.7	130	1.3	W639816	WH17191958
KZ17-01	130	132	2	W639817	WH17191958
KZ17-01	132	134	2	W639818	WH17191958
KZ17-01	134	136	2	W639819	WH17191958
KZ17-01	136	138	2	W639821	WH17191958
KZ17-01	138	139.38	1.38	W639822	WH17191958
KZ17-01	139.38	140.5	1.12	W639823	WH17191958
KZ17-01	140.5	142	1.5	W639824	WH17191958
KZ17-01	142	144	2	W639825	WH17191958
KZ17-01	144	146	2	W639826	WH17191958
KZ17-01	146	148	2	W639827	WH17191958
KZ17-01	148	150	2	W639828	WH17191958
KZ17-01	150	152	2	W639829	WH17191958
KZ17-01	152	154	2	W639831	WH17191958
KZ17-01	154	156	2	W639832	WH17191958
KZ17-01	156	158	2	W639833	WH17191958
KZ17-01	158	160	2	W639834	WH17191958
KZ17-01	160	162	2	W639835	WH17191958
KZ17-01	162	164	2	W639836	WH17191958
KZ17-01	164	166	2	W639837	WH17191958
KZ17-01	166	168	2	W639838	WH17191958
KZ17-01	168	170	2	W639839	WH17191958
KZ17-01	170	172	2	W639841	WH17191958
KZ17-01	172	174	2	W639842	WH17191958
KZ17-01	174	176	2	W639843	WH17191958
KZ17-01	176	178	2	W639844	WH17191958
KZ17-01	178	180	2	W639845	WH17191958
KZ17-01	180	182	2	W639846	WH17191958
KZ17-01	182	184	2	W639847	WH17191958
KZ17-01	184	186	2	W639848	WH17191958
KZ17-01	186	188	2	W639849	WH17191958
KZ17-01	188	190	2	W639851	WH17191958
KZ17-01	190	192	2	W639852	WH17191958
KZ17-01	192	194	2	W639853	WH17191958
KZ17-01	194	196	2	W639854	WH17191958
KZ17-01	196	198	2	W639855	WH17191958
KZ17-01	198	199.64	1.64	W639856	WH17191958
KZ17-01	199.64	200.67	1.03	W639857	WH17191958
KZ17-01	200.67	202	1.33	W639858	WH17191958
KZ17-01	202	204	2	W639859	WH17191958
KZ17-01	204	206	2	W639861	WH17191958
KZ17-01	206	208	2	W639862	WH17191958
KZ17-01	208	210	2	W639863	WH17191958
KZ17-01	210	212	2	W639864	WH17191958
KZ17-01	212	214	2	W639865	WH17191958
KZ17-01	214	216	2	W639866	WH17191958
KZ17-01	216	218	2	W639867	WH17191958
KZ17-01	218	220	2	W639868	WH17191958
KZ17-01	220	222	2	W639869	WH17191958
KZ17-01	222	224	2	W639871	WH17191958
KZ17-01	224	226	2	W639872	WH17191958
KZ17-01	226	228	2	W639873	WH17191958
KZ17-01	228	230	2	W639874	WH17191958
KZ17-01	230	232	2	W639875	WH17191958
KZ17-01	232	234	2	W639876	WH17191958
KZ17-01	234	236	2	W639877	WH17191958
KZ17-01	236	238	2	W639878	WH17191958
KZ17-01	238	240	2	W639879	WH17191958
KZ17-01	240	241.5	1.5	W639881	WH17191958
KZ17-01	241.5	242.64	1.14	W639882	WH17191958
KZ17-01	242.64	244	1.36	W639883	WH17191958
KZ17-01	244	246	2	W639884	WH17191958
KZ17-01	246	248	2	W639885	WH17191958
KZ17-01	248	250	2	W639886	WH17191958
KZ17-01	250	252	2	W639887	WH17191958
KZ17-01	252	254	2	W639888	WH17191958
KZ17-01	254	256	2	W639889	WH17191958
KZ17-01	256	258	2	W639891	WH17191958
KZ17-01	258	260	2	W639892	WH17191958
KZ17-01	260	262	2	W639893	WH17191958
KZ17-01	262	264	2	W639894	WH17191958
KZ17-01	264	266	2	W639895	WH17191958
KZ17-01	266	268	2	W639896	WH17191958
KZ17-01	268	270	2	W639897	WH17191958
KZ17-01	270	272	2	W639898	WH17191958
KZ17-01	272	274	2	W639899	WH17191958
KZ17-01	274	276	2	W639901	WH17191958
KZ17-01	276	277.5	1.5	W639902	WH17191958
KZ17-01	277.5	278.53	1.03	W639903	WH17191958
KZ17-01	278.53	280	1.47	W639904	WH17191958
KZ17-01	280	282	2	W639905	WH17191958
KZ17-01	282	284	2	W639906	WH17191958
KZ17-01	284	286	2	W639907	WH17191963
KZ17-01	286	287.5	1.5	W639908	WH17191963
KZ17-01	287.5	288.84	1.34	W639909	WH17191963
KZ17-01	288.84	290	1.16	W639911	WH17191963
KZ17-01	290	292	2	W639912	WH17191963
KZ17-01	292	294	2	W639913	WH17191963
KZ17-01	294	296	2	W639914	WH17191963
KZ17-01	296	298	2	W639915	WH17191963
KZ17-01	298	300	2	W639916	WH17191963
KZ17-01	300	302	2	W639917	WH17191963
KZ17-01	302	304	2	W639918	WH17191963
KZ17-01	304	306	2	W639919	WH17191963
KZ17-01	306	308	2	W639921	WH17191963
KZ17-01	308	310	2	W639922	WH17191963
KZ17-01	310	311.5	1.5	W639923	WH17191963
KZ17-01	311.5	313	1.5	W639924	WH17191963
KZ17-01	313	314.5	1.5	W639925	WH17191963
KZ17-01	314.5	316	1.5	W639926	WH17191963
KZ17-01	316	317.5	1.5	W639927	WH17191963
KZ17-01	317.5	319	1.5	W639928	WH17191963
KZ17-01	319	320.5	1.5	W639929	WH17191963
KZ17-01	320.5	322	1.5	W639931	WH17191963
KZ17-01	322	323.5	1.5	W639932	WH17191963
KZ17-01	323.5	325	1.5	W639933	WH17191963

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
KZ17-01	325	326.5	1.5	W639934	WH17191963
KZ17-01	326.5	328	1.5	W639935	WH17191963
KZ17-01	328	329.5	1.5	W639936	WH17191963
KZ17-01	329.5	331	1.5	W639937	WH17191963
KZ17-01	331	332.5	1.5	W639938	WH17191963
KZ17-01	332.5	334	1.5	W639939	WH17191963
KZ17-01	334	335.5	1.5	W639941	WH17191963
KZ17-01	335.5	337	1.5	W639942	WH17191963
KZ17-01	337	338.5	1.5	W639943	WH17191963
KZ17-01	338.5	340	1.5	W639944	WH17191963
KZ17-01	340	341.5	1.5	W639945	WH17191963
KZ17-01	341.5	343	1.5	W639946	WH17191963
KZ17-01	343	344.5	1.5	W639947	WH17191963
KZ17-01	344.5	346	1.5	W639948	WH17191963
KZ17-01	346	347.5	1.5	W639949	WH17191963
KZ17-01	347.5	349	1.5	W639951	WH17191963
KZ17-01	349	350.5	1.5	W639952	WH17191963
KZ17-01	350.5	352	1.5	W639953	WH17191963
KZ17-01	352	353.5	1.5	W639954	WH17191963
KZ17-01	353.5	355.54	2.04	W639955	WH17191963
KZ17-01	355.54	357	1.46	W639956	WH17191963
KZ17-01	357	358	1	W639957	WH17191963
KZ17-01	358	359	1	W639958	WH17191963
KZ17-01	359	360	1	W639959	WH17191963
KZ17-01	360	361	1	W639961	WH17191963
KZ17-01	361	362	1	W639962	WH17191963
KZ17-01	362	363	1	W639963	WH17191963
KZ17-01	363	364	1	W639964	WH17191963
KZ17-01	364	365	1	W639965	WH17191963
KZ17-01	365	366	1	W639966	WH17191963
KZ17-01	366	367.65	1.65	W639967	WH17191963
KZ17-01	367.65	369	1.35	W639968	WH17191963
KZ17-01	369	371	2	W639969	WH17191963
KZ17-01	371	373	2	W639971	WH17191963
KZ17-01	373	375	2	W639972	WH17191963
KZ17-01	375	377	2	W639973	WH17191963
KZ17-01	377	379	2	W639974	WH17191963
KZ17-01	379	381	2	W639975	WH17191963
KZ17-01	381	383	2	W639976	WH17191963
KZ17-01	383	385	2	W639977	WH17191963
KZ17-01	385	387	2	W639978	WH17191963
KZ17-01	387	389	2	W639979	WH17191963
KZ17-01	389	391	2	W639981	WH17191963
KZ17-01	391	393	2	W639982	WH17191963
KZ17-01	393	395	2	W639983	WH17191963
KZ17-01	395	397	2	W639984	WH17191963
KZ17-01	397	399	2	W639985	WH17191963
KZ17-01	399	401	2	W639986	WH17191963
KZ17-01	401	403	2	W639987	WH17191963
KZ17-01	403	405	2	W639988	WH17191963
KZ17-01	405	407	2	W639989	WH17191963
KZ17-01	407	409	2	W639991	WH17191963
KZ17-01	409	411	2	W639992	WH17191963
KZ17-01	411	413	2	W639993	WH17191963
KZ17-01	413	415	2	W639994	WH17191963
KZ17-01	415	416.5	1.5	W639995	WH17191963
KZ17-01	416.5	417.62	1.12	W639996	WH17191963
KZ17-01	417.62	419	1.38	W639997	WH17191963
KZ17-01	419	421	2	W639998	WH17191963
KZ17-01	421	423	2	W639999	WH17191963
KZ17-01	423	425	2	W640001	WH17191963
KZ17-01	425	427	2	W640002	WH17191963
KZ17-01	427	429	2	W640003	WH17191963
KZ17-01	429	431	2	W640004	WH17191963
KZ17-01	431	433	2	W640005	WH17191963
KZ17-01	433	435	2	W640006	WH17191963

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
KZ17-01	435	436.5	1.5	W640007	WH17191963
KZ17-01	436.5	438	1.5	W640008	WH17191963
KZ17-01	438	439.2	1.2	W640009	WH17191963
KZ17-01	439.2	440.2	1	W640011	WH17191963
KZ17-01	440.2	442	1.8	W640012	WH17191963
KZ17-01	442	443.5	1.5	W640013	WH17191963
KZ17-01	443.5	445	1.5	W640014	WH17191963
KZ17-01	445	446.5	1.5	W640015	WH17191963
KZ17-01	446.5	447.8	1.3	W640016	WH17191963
KZ17-01	447.8	448.8	1	W640017	WH17191963
KZ17-01	448.8	450	1.2	W640018	WH17191963
KZ17-01	450	452	2	W640019	WH17191963
KZ17-01	452	454	2	W640021	WH17191963
KZ17-01	454	456	2	W640022	WH17191963
KZ17-01	456	458	2	W640023	WH17191963
KZ17-01	458	460	2	W640024	WH17191963
KZ17-01	460	462	2	W640025	WH17191963
KZ17-01	462	464	2	W640026	WH17191963
KZ17-01	464	466	2	W640027	WH17191963
KZ17-01	466	468	2	W640028	WH17191963
KZ17-01	468	470	2	W640029	WH17191963
KZ17-01	470	472	2	W640031	WH17191963
KZ17-01	472	474	2	W640032	WH17191963
KZ17-01	474	476	2	W640033	WH17191963
KZ17-01	476	478	2	W640034	WH17191963
KZ17-01	478	480	2	W640035	WH17191963
KZ17-01	480	482	2	W640036	WH17191963
KZ17-01	482	484	2	W640037	WH17191963
KZ17-01	484	486	2	W640038	WH17191963
KZ17-01	486	488	2	W640039	WH17191963
KZ17-01	488	490	2	W640041	WH17191963
KZ17-01	490	492	2	W640042	WH17191963
KZ17-01	492	494	2	W640043	WH17191963
KZ17-01	494	496	2	W640044	WH17191963
KZ17-01	496	498	2	W640045	WH17191963
KZ17-01	498	500	2	W640046	WH17191963
KZ17-01	500	502	2	W640047	WH17191963
KZ17-01	502	504	2	W640048	WH17191963
KZ17-01	504	506	2	W640049	WH17191963
KZ17-01	506	508	2	W640051	WH17191963
KZ17-01	508	510	2	W640052	WH17191963
KZ17-01	510	512	2	W640053	WH17191963
KZ17-01	512	514	2	W640054	WH17191963
KZ17-01	514	516	2	W640055	WH17191963
KZ17-01	516	518	2	W640056	WH17191963
KZ17-01	518	520	2	W640057	WH17191963
KZ17-01	520	522	2	W640058	WH17191963
KZ17-01	522	524	2	W640059	WH17191963
KZ17-01	524	526	2	W640061	WH17191963
KZ17-01	526	528	2	W640062	WH17191963
KZ17-01	528	529.24	1.24	W640063	WH17191963
KZ17-01	529.24	530.34	1.1	W640064	WH17191963
KZ17-01	530.34	532	1.66	W640065	WH17191963
KZ17-01	532	534	2	W640066	WH17191963
KZ17-01	534	536	2	W640067	WH17191963
KZ17-01	536	537.5	1.5	W640068	WH17191963
KZ17-01	537.5	538.27	0.77	W640069	WH17191963
KZ17-01	538.27	540	1.73	W640071	WH17191963
KZ17-01	540	542	2	W640072	WH17191963
KZ17-01	542	544	2	W640073	WH17191963
KZ17-01	544	546	2	W640074	WH17191963
KZ17-01	546	548	2	W640075	WH17191963
KZ17-01	548	550	2	W640076	WH17191963
KZ17-01	550	552	2	W640077	WH17191963
KZ17-01	552	554	2	W640078	WH17191963
KZ17-01	554	556	2	W640079	WH17191963

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
KZ17-01	556	558	2	W640081	WH17191963
KZ17-01	558	560	2	W640082	WH17191963
KZ17-01	560	562	2	W640083	WH17191963
KZ17-01	562	564	2	W640084	WH17191963
KZ17-01	564	566	2	W640085	WH17191963
KZ17-01	566	568	2	W640086	WH17191963
KZ17-01	568	570	2	W640087	WH17191963
KZ17-01	570	572	2	W640088	WH17191963
KZ17-01	572	574	2	W640089	WH17191963
KZ17-01	574	576	2	W640091	WH17191963
KZ17-01	576	578	2	W640092	WH17191963
KZ17-01	578	580	2	W640093	WH17191963
KZ17-01	580	582	2	W640094	WH17191963
KZ17-01	582	584	2	W640095	WH17191963
KZ17-01	584	586	2	W640096	WH17191963
KZ17-01	586	588	2	W640097	WH17191963
KZ17-01	588	590	2	W640098	WH17191963
KZ17-01	590	592	2	W640099	WH17191963
KZ17-01	592	594	2	W640101	WH17191963
KZ17-01	594	596	2	W640102	WH17191963
KZ17-01	596	598	2	W640103	WH17191963
KZ17-01	598	600	2	W640104	WH17191963
KZ17-01	600	602	2	W640105	WH17191963
KZ17-01	602	603.5	1.5	W640106	WH17191963
N17-15	3.05	5	1.95	W639618	WH17186574
N17-15	5	7	2	W639619	WH17186574
N17-15	7	9	2	W639621	WH17186574
N17-15	9	11	2	W639622	WH17186574
N17-15	11	13	2	W639623	WH17186574
N17-15	13	15	2	W639624	WH17186574
N17-15	15	17	2	W639625	WH17186574
N17-15	17	19	2	W639626	WH17186574
N17-15	19	21	2	W639627	WH17186574
N17-15	21	22.5	1.5	W639628	WH17186574
N17-15	22.5	24	1.5	W639629	WH17186574
N17-15	24	26	2	W639631	WH17186574
N17-15	26	28	2	W639632	WH17186574
N17-15	28	30	2	W639633	WH17186574
N17-15	30	32	2	W639634	WH17186574
N17-15	32	34	2	W639635	WH17186574
N17-15	34	36	2	W639636	WH17186574
N17-15	36	38	2	W639637	WH17186574
N17-15	38	40	2	W639638	WH17186574
N17-15	40	42	2	W639639	WH17186574
N17-15	42	44	2	W639641	WH17186574
N17-15	44	46	2	W639642	WH17186574
N17-15	46	47.5	1.5	W639643	WH17186574
N17-15	47.5	48.91	1.41	W639644	WH17186574
N17-15	48.91	51	2.09	W639645	WH17186574
N17-15	51	53	2	W639646	WH17186574
N17-15	53	55	2	W639647	WH17186574
N17-15	55	57	2	W639648	WH17186574
N17-15	57	59	2	W639649	WH17186574
N17-15	59	61	2	W639651	WH17186574
N17-15	61	63	2	W639652	WH17186574
N17-15	63	65	2	W639653	WH17186574
N17-15	65	67	2	W639654	WH17186574
N17-15	67	69	2	W639655	WH17186574
N17-15	69	71	2	W639656	WH17186574
N17-15	71	73	2	W639657	WH17186574
N17-15	73	75	2	W639658	WH17186574
N17-15	75	76.5	1.5	W639659	WH17186574
N17-15	76.5	77.87	1.37	W639661	WH17186574
N17-15	77.87	80	2.13	W639662	WH17186574
N17-15	80	82	2	W639663	WH17186574
N17-15	82	84	2	W639664	WH17186574

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-15	84	86	2	W639665	WH17186574
N17-15	86	88	2	W639666	WH17186574
N17-15	88	90	2	W639667	WH17186574
N17-15	90	92	2	W639668	WH17186574
N17-15	92	94	2	W639669	WH17186574
N17-15	94	96	2	W639671	WH17186574
N17-15	96	98	2	W639672	WH17186574
N17-15	98	100	2	W639673	WH17186574
N17-15	100	102	2	W639674	WH17186574
N17-15	102	104	2	W639675	WH17186574
N17-15	104	106	2	W639676	WH17186574
N17-15	106	108	2	W639677	WH17186574
N17-15	108	110	2	W639678	WH17186574
N17-15	110	112	2	W639679	WH17186574
N17-15	112	114	2	W639681	WH17191958
N17-15	114	116	2	W639682	WH17191958
N17-15	116	118	2	W639683	WH17191958
N17-15	118	120	2	W639684	WH17191958
N17-15	120	122	2	W639685	WH17191958
N17-15	122	124	2	W639686	WH17191958
N17-15	124	126	2	W639687	WH17191958
N17-15	126	128	2	W639688	WH17191958
N17-15	128	130	2	W639689	WH17191958
N17-15	130	132	2	W639691	WH17191958
N17-15	132	134	2	W639692	WH17191958
N17-15	134	136	2	W639693	WH17191958
N17-15	136	138	2	W639694	WH17191958
N17-15	138	140	2	W639695	WH17191958
N17-15	140	142	2	W639696	WH17191958
N17-15	142	144	2	W639697	WH17191958
N17-15	144	146	2	W639698	WH17191958
N17-15	146	148	2	W639699	WH17191958
N17-15	148	150	2	W639701	WH17191958
N17-15	150	152	2	W639702	WH17191958
N17-15	152	154	2	W639703	WH17191958
N17-15	154	156	2	W639704	WH17191958
N17-15	156	158	2	W639705	WH17191958
N17-15	158	160	2	W639706	WH17191958
N17-15	160	162	2	W639707	WH17191958
N17-15	162	164	2	W639708	WH17191958
N17-15	164	166	2	W639709	WH17191958
N17-15	166	168	2	W639711	WH17191958
N17-15	168	170	2	W639712	WH17191958
N17-15	170	172	2	W639713	WH17191958
N17-15	172	174	2	W639714	WH17191958
N17-15	174	176	2	W639715	WH17191958
N17-15	176	178	2	W639716	WH17191958_revised
N17-15	178	179.66	1.66	W639717	WH17191958_revised
N17-15	179.66	180.66	1	W639718	WH17191958_revised
N17-15	180.66	182	1.34	W639719	WH17191958_revised
N17-15	182	183.5	1.5	W639721	WH17191958_revised
N17-15	183.5	185	1.5	W639722	WH17191958_revised
N17-15	185	186.5	1.5	W639723	WH17191958_revised
N17-15	186.5	188	1.5	W639724	WH17191958_revised
N17-15	188	189.5	1.5	W639725	WH17191958_revised
N17-15	189.5	191	1.5	W639726	WH17191958_revised
N17-15	191	192.5	1.5	W639727	WH17191958_revised
N17-15	192.5	194	1.5	W639728	WH17191958_revised
N17-15	194	195.5	1.5	W639729	WH17191958_revised
N17-15	195.5	197	1.5	W639731	WH17191958_revised
N17-15	197	198.5	1.5	W639732	WH17191958_revised
N17-15	198.5	200	1.5	W639733	WH17191958_revised
N17-15	200	201.5	1.5	W639734	WH17191958_revised
N17-15	201.5	203.35	1.85	W639735	WH17191958_revised
N17-15	203.35	205	1.65	W639736	WH17191958_revised
N17-15	205	206.5	1.5	W639737	WH17191958_revised

Hole ID	Fr (m)	To (m)	Length (m)	Sample No.	Certificate No
N17-15	206.5	208	1.5	W639738	WH17191958_revised
N17-15	208	209.5	1.5	W639739	WH17191958_revised
N17-15	209.5	211	1.5	W639741	WH17191958_revised
N17-15	211	212.58	1.58	W639742	WH17191958_revised
N17-15	212.58	214	1.42	W639743	WH17191958_revised
N17-15	214	216	2	W639744	WH17191958_revised
N17-15	216	218	2	W639745	WH17191958_revised
N17-15	218	220	2	W639746	WH17191958
N17-15	220	222	2	W639747	WH17191958
N17-15	222	224	2	W639748	WH17191958
N17-15	224	225	1	W639749	WH17191958
N17-15	225	226	1	W639751	WH17191958
N17-15	226	228	2	W639752	WH17191958
N17-15	228	230	2	W639753	WH17191958
N17-15	230	232	2	W639754	WH17191958
N17-15	232	234	2	W639755	WH17191958
N17-15	234	236	2	W639756	WH17191958
N17-15	236	238	2	W639757	WH17191958
N17-15	238	240	2	W639758	WH17191958
N17-15	240	242	2	W639759	WH17191958
N17-15	242	244	2	W639761	WH17191958
N17-15	244	246	2	W639762	WH17191958
N17-15	246	248	2	W639763	WH17191958
N17-15	248	250	2	W639764	WH17191958
N17-15	250	252	2	W639765	WH17191958
N17-15	252	254	2	W639766	WH17191958
N17-15	254	256	2	W639767	WH17191958
N17-15	256	258	2	W639768	WH17191958
N17-15	258	259.5	1.5	W639769	WH17191958
N17-15	259.5	260.6	1.1	W639771	WH17191958

APPENDIX D - 2017 ASSAY CERTIFICATES

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17144061

Project: FREEGOLD MOUNTAIN

P.O. No.: 1005139- NOFREG- R1

This report is for 163 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
EXTRA- 01	Extra Sample received in Shipment
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K911998		6.18	0.071	1.6	0.40	575	<10	170	<0.5	2	0.96	3.1	3	6	231	2.84
K911999		5.60	0.049	1.0	0.44	684	<10	370	<0.5	<2	0.91	2.3	2	7	208	2.60
K917071		10.38	0.010	<0.2	1.15	4	<10	90	<0.5	<2	0.80	<0.5	6	10	108	2.46
K917072		11.16	0.048	0.2	1.10	3	<10	100	<0.5	3	0.79	<0.5	5	9	188	2.31
K917073		10.24	0.081	0.8	1.12	7	<10	110	<0.5	<2	0.77	<0.5	8	10	507	2.62
K917074		9.70	0.006	<0.2	1.14	2	<10	120	<0.5	2	0.79	<0.5	5	12	71	2.25
K917075		9.34	0.016	0.3	1.19	2	<10	80	<0.5	<2	0.89	<0.5	6	9	200	2.46
K917076		9.90	0.032	0.2	1.14	2	<10	140	<0.5	<2	0.79	<0.5	5	10	152	2.33
K917077		10.66	0.035	0.2	1.17	<2	<10	140	<0.5	2	0.77	<0.5	6	10	152	2.30
K917078		10.14	0.030	0.3	1.23	<2	<10	130	<0.5	2	0.83	<0.5	6	10	198	2.48
K917079		10.26	0.044	0.3	1.11	<2	<10	190	<0.5	<2	0.63	<0.5	7	10	226	2.44
K917080		0.08	0.302	2.6	1.61	27	10	60	<0.5	<2	0.81	2.1	10	28	2400	4.31
K917081		10.72	0.013	0.3	1.23	36	<10	200	<0.5	<2	0.83	<0.5	6	10	123	2.36
K917082		10.44	0.030	0.2	1.10	<2	<10	150	<0.5	2	0.73	<0.5	6	10	140	2.37
K917083		10.72	0.047	<0.2	1.09	14	<10	90	<0.5	3	0.91	<0.5	5	10	115	2.30
K917084		9.68	0.019	0.3	0.98	36	<10	70	<0.5	2	0.87	<0.5	6	10	220	2.27
K917085		10.80	0.037	0.7	1.11	4	<10	90	<0.5	5	0.81	<0.5	7	9	417	2.51
K917086		10.26	0.014	0.2	1.01	3	<10	110	<0.5	<2	0.80	<0.5	5	9	174	2.14
K917087		9.08	0.016	0.3	1.10	3	<10	130	<0.5	2	0.76	<0.5	7	11	161	2.17
K917088		11.24	0.038	0.2	1.15	3	<10	160	<0.5	<2	0.82	<0.5	6	11	106	2.36
K917089		9.20	0.071	0.4	1.19	2	<10	170	<0.5	3	0.83	<0.5	7	11	232	2.52
K917090		0.60	<0.005	0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	1	1	2	0.09
K917091		9.80	0.006	0.2	1.18	4	<10	180	<0.5	<2	0.95	<0.5	7	11	139	2.43
K917092		10.98	0.009	0.2	1.24	8	<10	70	<0.5	2	1.51	<0.5	9	10	161	2.68
K917093		10.64	0.019	0.3	1.17	3	<10	90	<0.5	<2	1.06	<0.5	7	11	178	2.41
K917094		10.98	0.016	0.2	1.26	3	<10	150	<0.5	2	1.01	<0.5	6	10	120	2.39
K917095		4.82	0.011	<0.2	1.31	4	<10	120	<0.5	2	1.08	<0.5	6	11	65	2.40
K917096		7.48	0.006	<0.2	1.23	5	<10	160	<0.5	<2	1.17	<0.5	7	10	72	2.47
K917097		6.68	0.073	0.3	0.65	24	<10	70	0.6	2	1.33	<0.5	7	7	207	2.43
K917098		10.94	0.021	0.2	0.67	42	<10	50	0.6	2	0.92	<0.5	7	6	207	1.97
K917099		9.68	0.036	0.6	0.58	24	<10	40	0.7	11	1.38	<0.5	6	5	293	1.70
K917100		0.08	0.732	3.3	1.28	15	10	120	<0.5	3	0.88	<0.5	12	53	8360	2.65
K917101		9.40	0.007	<0.2	0.53	18	<10	50	0.6	<2	1.08	<0.5	3	6	67	1.38
K917102		11.04	0.009	0.2	0.81	25	<10	50	0.7	<2	1.32	<0.5	6	7	118	2.01
K917103		9.90	0.019	0.4	0.76	20	<10	30	0.6	<2	1.15	<0.5	7	7	199	2.20
K917104		9.72	0.038	0.4	1.26	28	<10	60	0.6	2	1.81	<0.5	9	9	312	2.77
K917105		5.32	0.016	0.3	1.00	13	<10	60	0.5	7	2.28	<0.5	5	7	204	2.07
K917106		5.84	0.031	0.3	1.24	3	<10	110	<0.5	3	0.97	<0.5	8	12	208	2.81
K917107		10.76	0.012	0.2	1.42	<2	<10	280	<0.5	<2	0.92	<0.5	9	14	151	3.07
K917108		10.14	0.020	0.4	1.19	2	<10	250	<0.5	2	0.89	<0.5	8	12	224	2.68

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K911998		<10	<1	0.24	10	0.63	355	8	<0.01	10	440	139	1.19	<2	4	87
K911999		<10	<1	0.26	10	0.64	373	51	<0.01	7	450	112	0.69	2	4	91
K917071		10	<1	0.41	20	0.72	151	1	0.09	6	640	4	0.39	<2	4	26
K917072		<10	<1	0.38	20	0.72	147	1	0.09	6	600	4	0.36	<2	4	26
K917073		10	<1	0.39	20	0.74	143	1	0.10	5	640	3	0.70	<2	4	26
K917074		10	<1	0.38	20	0.71	182	1	0.11	5	650	4	0.21	<2	4	30
K917075		10	<1	0.37	20	0.70	140	2	0.09	5	610	4	0.54	<2	4	28
K917076		<10	<1	0.43	20	0.64	172	7	0.12	5	600	3	0.36	<2	4	34
K917077		10	<1	0.48	20	0.66	171	2	0.12	5	660	3	0.29	2	4	35
K917078		10	<1	0.52	20	0.74	154	1	0.11	5	680	4	0.43	<2	5	32
K917079		10	<1	0.54	20	0.67	169	1	0.12	5	640	4	0.45	<2	4	32
K917080		<10	<1	0.28	<10	0.55	727	231	0.05	21	690	72	2.10	2	2	53
K917081		10	<1	0.47	20	0.64	210	8	0.15	6	610	5	0.31	<2	4	41
K917082		<10	<1	0.42	20	0.65	173	2	0.11	6	610	4	0.45	<2	4	32
K917083		10	<1	0.34	20	0.66	176	2	0.09	4	620	4	0.39	<2	4	32
K917084		10	<1	0.25	20	0.62	144	1	0.07	4	550	4	0.56	<2	4	27
K917085		10	<1	0.29	20	0.73	170	1	0.08	5	660	3	0.60	2	4	29
K917086		<10	<1	0.30	20	0.60	172	1	0.08	4	600	4	0.34	<2	3	30
K917087		<10	<1	0.40	20	0.58	191	7	0.10	5	610	5	0.25	<2	3	33
K917088		<10	<1	0.47	20	0.64	210	1	0.11	3	640	4	0.35	<2	4	36
K917089		10	<1	0.48	20	0.71	210	1	0.11	4	650	5	0.49	2	4	37
K917090		<10	<1	<0.01	<10	0.62	117	<1	<0.01	1	90	<2	0.01	<2	<1	96
K917091		10	<1	0.47	20	0.66	234	3	0.11	4	660	4	0.30	2	4	42
K917092		10	<1	0.36	30	0.66	226	9	0.07	3	640	4	0.59	2	5	68
K917093		<10	<1	0.38	20	0.68	216	1	0.08	4	650	6	0.36	2	5	58
K917094		10	<1	0.59	20	0.73	248	1	0.10	4	660	3	0.17	2	4	46
K917095		10	<1	0.51	20	0.74	221	1	0.09	4	640	4	0.27	2	5	51
K917096		<10	<1	0.46	20	0.62	247	1	0.12	3	620	4	0.26	4	5	72
K917097		<10	<1	0.22	20	0.44	219	21	0.05	4	630	6	0.54	4	4	75
K917098		<10	<1	0.23	20	0.30	147	5	0.01	4	660	7	0.52	3	3	58
K917099		<10	<1	0.23	10	0.41	142	4	0.01	3	360	13	0.45	4	2	85
K917100		<10	<1	0.10	<10	0.58	440	406	0.08	34	530	7	0.63	4	4	41
K917101		<10	<1	0.23	10	0.28	119	1	0.05	1	320	9	0.25	2	2	78
K917102		<10	<1	0.25	20	0.38	134	31	0.05	3	460	6	0.50	4	3	60
K917103		<10	<1	0.23	30	0.40	126	6	0.05	3	650	7	0.76	3	3	46
K917104		10	<1	0.30	20	0.70	156	1	0.04	4	640	4	0.85	2	4	58
K917105		10	<1	0.30	20	0.56	228	2	0.03	2	520	4	0.48	3	4	53
K917106		10	<1	0.53	40	0.79	187	3	0.08	5	730	4	0.62	<2	5	36
K917107		10	<1	0.77	50	0.89	224	2	0.11	6	810	4	0.49	<2	6	37
K917108		10	<1	0.55	30	0.78	211	3	0.08	4	680	5	0.58	<2	5	37

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K911998		<20	<0.01	<10	<10	21	10	184	
K911999		<20	<0.01	<10	<10	22	<10	137	
K917071		20	0.11	<10	10	49	20	12	
K917072		20	0.13	<10	10	47	<10	12	
K917073		20	0.11	<10	10	51	10	16	
K917074		20	0.15	<10	10	50	<10	12	
K917075		20	0.13	<10	10	49	<10	13	
K917076		20	0.14	<10	10	47	<10	13	
K917077		20	0.15	<10	10	50	<10	13	
K917078		20	0.14	<10	10	55	<10	16	
K917079		20	0.15	<10	10	52	<10	15	
K917080		<20	0.04	<10	<10	30	<10	424	
K917081		20	0.14	<10	<10	50	10	19	
K917082		20	0.15	<10	10	49	<10	15	
K917083		20	0.13	<10	10	47	<10	15	
K917084		20	0.09	<10	10	42	10	15	
K917085		20	0.12	<10	10	51	10	22	
K917086		20	0.13	<10	10	44	<10	15	
K917087		20	0.15	<10	<10	47	10	16	
K917088		20	0.16	<10	<10	51	<10	16	
K917089		20	0.14	<10	<10	53	<10	19	
K917090		<20	<0.01	<10	<10	<1	<10	<2	
K917091		20	0.12	<10	10	53	<10	18	
K917092		20	0.05	<10	10	45	<10	16	
K917093		20	0.06	<10	<10	49	<10	17	
K917094		20	0.12	<10	<10	52	<10	17	
K917095		20	0.07	<10	<10	50	<10	16	
K917096		20	0.08	<10	<10	49	<10	17	
K917097		20	<0.01	<10	<10	26	<10	17	
K917098		20	<0.01	<10	<10	13	<10	13	
K917099		20	<0.01	<10	10	6	<10	20	
K917100		<20	0.12	<10	<10	53	30	60	
K917101		20	<0.01	<10	10	10	<10	12	
K917102		20	<0.01	<10	10	20	40	14	
K917103		20	<0.01	<10	<10	27	10	14	
K917104		20	0.02	<10	10	44	20	18	
K917105		20	0.01	<10	10	37	10	16	
K917106		30	0.09	<10	<10	59	10	18	
K917107		30	0.21	<10	<10	71	10	18	
K917108		20	0.13	<10	<10	58	20	19	

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917109		8.42	0.028	1.9	1.21	19	<10	140	<0.5	16	1.52	0.9	11	10	1180	3.29
K917110		0.48	<0.005	0.2	0.03	<2	<10	10	<0.5	3	>25.0	<0.5	1	1	12	0.10
K917111		7.16	0.036	0.4	1.15	3	<10	160	<0.5	2	0.97	<0.5	8	10	240	2.50
K917112		8.48	0.103	0.4	1.13	2	<10	130	<0.5	2	1.09	<0.5	9	12	249	2.81
K917113		11.52	0.032	0.2	1.05	4	<10	70	<0.5	4	0.95	<0.5	7	11	191	2.39
K917114		9.86	0.021	0.2	0.99	2	<10	140	<0.5	2	0.61	<0.5	6	10	147	2.14
K917115		10.60	0.007	<0.2	0.93	3	<10	190	<0.5	2	0.57	<0.5	6	10	114	1.99
K917116		10.20	0.010	0.2	0.94	2	<10	150	<0.5	<2	0.68	<0.5	7	10	158	2.18
K917117		10.48	0.053	0.7	0.97	2	<10	130	<0.5	7	0.95	<0.5	8	11	286	2.31
K917118		10.68	0.014	0.3	0.91	<2	<10	70	<0.5	7	1.19	<0.5	7	10	199	2.13
K917119		9.48	0.013	0.2	0.81	16	<10	100	<0.5	2	1.15	<0.5	7	10	129	2.24
K917120		0.08	0.316	2.7	1.74	29	10	60	<0.5	3	0.85	2.0	11	30	2530	4.49
K917121		4.48	0.007	0.2	0.91	7	<10	130	<0.5	<2	1.19	<0.5	5	9	120	2.06
K917122		7.32	0.029	0.3	0.98	2	<10	130	<0.5	3	0.83	<0.5	7	10	176	2.17
K917123		6.90	0.024	0.2	1.02	3	<10	100	<0.5	3	0.77	<0.5	6	11	171	2.17
K917124		6.00	0.013	<0.2	1.10	3	<10	160	<0.5	3	0.71	<0.5	6	12	89	2.10
K917125		6.90	0.012	<0.2	1.08	4	<10	180	<0.5	<2	0.73	<0.5	4	10	68	1.95
K917126		6.66	0.011	0.2	1.05	4	<10	130	<0.5	<2	0.75	<0.5	5	10	109	1.92
K917127		7.04	0.018	0.2	1.03	6	<10	130	<0.5	<2	0.74	<0.5	5	11	93	2.04
K917128		3.10	0.012	0.2	1.01	2	<10	120	<0.5	5	0.59	<0.5	5	10	177	2.08
K917129		3.06	0.013	<0.2	0.95	4	<10	100	<0.5	2	0.57	<0.5	5	10	105	2.02
K917130		0.26	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.08
K917131		3.54	0.012	0.8	1.06	10	<10	80	<0.5	27	1.03	<0.5	6	10	476	2.31
K917132		5.98	<0.005	<0.2	1.29	12	<10	100	<0.5	<2	1.06	<0.5	4	11	65	1.78
K917133		5.96	0.041	0.2	0.57	81	<10	100	0.8	<2	4.93	<0.5	6	6	96	2.27
K917134		6.18	0.113	<0.2	0.86	33	<10	70	0.7	4	2.39	<0.5	5	7	73	2.08
K917135		4.28	0.012	<0.2	1.19	9	<10	110	0.5	2	1.25	<0.5	5	10	92	2.29
K917136		5.62	0.010	<0.2	1.31	7	<10	130	<0.5	<2	1.11	<0.5	7	10	82	2.27
K917137		6.60	<0.005	<0.2	1.15	4	<10	110	<0.5	<2	0.80	<0.5	6	10	46	2.05
K917138		6.94	0.007	<0.2	1.18	4	<10	110	<0.5	<2	0.77	<0.5	7	11	49	2.07
K917139		6.86	0.035	<0.2	1.22	3	<10	90	<0.5	3	0.92	<0.5	4	10	50	1.86
K917140		0.08	0.324	2.7	1.73	29	10	60	<0.5	2	0.88	2.2	10	31	2600	4.67
K917141		7.00	0.068	<0.2	0.98	3	<10	100	<0.5	7	0.74	<0.5	4	10	66	1.79
K917142		7.02	<0.005	<0.2	1.08	3	<10	90	<0.5	<2	0.76	<0.5	5	11	62	1.91
K917143		6.80	0.007	<0.2	1.05	3	<10	80	<0.5	<2	0.81	<0.5	7	10	88	2.02
K917144		6.88	0.009	0.2	0.91	3	<10	90	<0.5	<2	0.68	<0.5	4	9	75	1.71
K917145		3.54	0.007	<0.2	0.94	3	<10	100	<0.5	<2	0.78	<0.5	5	10	59	1.93
K917146		4.40	0.013	<0.2	0.94	4	<10	90	<0.5	2	1.04	<0.5	5	10	75	1.93
K917147		5.44	0.010	0.2	0.51	15	<10	60	0.6	2	1.32	<0.5	6	6	123	1.91
K917148		6.82	0.046	0.2	0.51	13	<10	60	0.7	3	1.06	<0.5	6	6	124	2.18

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917109		10	<1	0.47	40	0.70	181	3	0.05	5	760	16	1.12	<2	5	43
K917110		<10	<1	0.01	<10	0.48	100	<1	<0.01	<1	90	2	0.04	2	<1	79
K917111		10	<1	0.48	30	0.73	162	22	0.08	4	630	5	0.59	<2	5	33
K917112		10	<1	0.43	40	0.76	144	7	0.06	4	680	5	0.76	<2	6	28
K917113		10	<1	0.36	20	0.65	137	11	0.07	3	550	6	0.63	2	4	28
K917114		<10	<1	0.46	20	0.57	123	1	0.08	3	500	3	0.49	<2	4	26
K917115		<10	<1	0.45	20	0.51	135	4	0.10	3	470	4	0.42	<2	4	29
K917116		<10	<1	0.42	20	0.59	134	12	0.08	3	510	4	0.51	<2	4	29
K917117		<10	<1	0.35	20	0.56	127	9	0.07	3	520	5	0.64	<2	4	39
K917118		<10	<1	0.27	20	0.54	132	73	0.05	3	510	8	0.58	<2	3	44
K917119		<10	<1	0.27	20	0.43	171	11	0.06	3	510	5	0.64	2	3	71
K917120		<10	<1	0.30	<10	0.56	781	240	0.05	20	710	77	2.13	2	2	55
K917121		<10	<1	0.34	20	0.49	195	2	0.08	3	520	4	0.29	2	4	73
K917122		<10	<1	0.38	20	0.57	152	4	0.08	3	520	5	0.48	<2	4	42
K917123		10	<1	0.28	20	0.60	141	10	0.09	5	520	6	0.48	<2	4	34
K917124		10	<1	0.39	20	0.61	158	2	0.11	4	530	5	0.36	<2	3	42
K917125		10	<1	0.38	30	0.58	151	21	0.10	3	540	5	0.28	2	3	43
K917126		10	<1	0.35	20	0.53	147	6	0.10	3	540	6	0.26	2	3	36
K917127		<10	<1	0.35	20	0.53	155	2	0.10	4	580	5	0.36	2	3	36
K917128		10	<1	0.42	20	0.58	134	1	0.10	3	530	5	0.42	<2	4	32
K917129		<10	<1	0.36	20	0.57	135	3	0.09	3	520	6	0.43	<2	4	30
K917130		<10	<1	<0.01	<10	0.65	93	<1	0.01	<1	70	2	<0.01	2	<1	87
K917131		10	<1	0.27	20	0.60	142	4	0.07	3	540	14	0.64	4	4	36
K917132		10	<1	0.39	20	0.55	148	3	0.13	3	520	4	0.26	3	4	63
K917133		<10	<1	0.24	20	1.24	264	2	0.01	3	440	7	0.73	6	3	190
K917134		<10	<1	0.23	20	0.48	179	1	0.03	3	540	6	0.48	4	4	114
K917135		10	<1	0.35	30	0.56	153	85	0.10	4	580	5	0.42	3	4	78
K917136		10	<1	0.41	20	0.66	165	4	0.13	4	580	5	0.40	2	4	68
K917137		10	<1	0.45	20	0.62	172	1	0.10	4	570	6	0.21	<2	3	45
K917138		10	<1	0.50	30	0.65	173	1	0.10	3	590	5	0.22	<2	4	46
K917139		10	<1	0.37	20	0.57	168	2	0.11	4	550	6	0.15	2	3	55
K917140		10	<1	0.29	<10	0.59	769	241	0.06	22	750	79	2.22	<2	2	57
K917141		10	<1	0.34	20	0.49	137	2	0.09	3	490	6	0.24	<2	3	31
K917142		10	<1	0.43	20	0.59	143	1	0.09	3	510	5	0.22	<2	4	57
K917143		10	<1	0.38	20	0.58	145	1	0.09	4	530	5	0.31	<2	4	45
K917144		<10	<1	0.27	20	0.46	136	1	0.09	3	400	5	0.27	<2	3	32
K917145		<10	<1	0.31	20	0.53	160	1	0.09	3	500	5	0.26	<2	3	34
K917146		<10	<1	0.30	20	0.52	161	1	0.08	3	480	6	0.29	<2	3	39
K917147		<10	<1	0.22	20	0.39	148	9	0.04	3	510	6	0.57	<2	3	81
K917148		<10	<1	0.22	30	0.38	156	4	0.05	4	550	7	0.55	2	3	91

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
K917109		30	0.06	<10	<10	45	30	67	
K917110		<20	0.01	<10	<10	1	<10	<2	
K917111		20	0.11	<10	10	51	30	20	
K917112		30	0.09	<10	<10	52	30	20	
K917113		20	0.09	<10	10	43	30	17	
K917114		20	0.12	<10	10	44	50	13	
K917115		20	0.13	<10	10	40	40	12	
K917116		20	0.12	<10	10	45	80	13	
K917117		20	0.06	<10	10	40	90	15	
K917118		20	0.02	<10	10	33	300	16	
K917119		20	0.02	<10	10	29	50	15	
K917120		<20	0.05	<10	<10	31	<10	440	
K917121		20	0.03	<10	<10	33	30	13	
K917122		20	0.08	<10	<10	41	20	14	
K917123		20	0.11	<10	<10	42	80	17	
K917124		20	0.14	<10	<10	43	30	14	
K917125		20	0.14	<10	<10	42	70	13	
K917126		20	0.13	<10	10	41	10	14	
K917127		20	0.13	<10	<10	43	20	14	
K917128		20	0.13	<10	<10	43	20	15	
K917129		20	0.12	<10	<10	42	30	14	
K917130		<20	<0.01	<10	<10	<1	<10	<2	
K917131		20	0.07	<10	10	39	50	27	
K917132		20	0.09	<10	<10	36	110	15	
K917133		20	<0.01	<10	10	13	<10	14	
K917134		20	<0.01	<10	<10	18	<10	15	
K917135		20	0.03	<10	<10	38	10	18	
K917136		20	0.11	<10	<10	40	<10	15	
K917137		20	0.14	<10	10	42	<10	14	
K917138		20	0.14	<10	<10	43	<10	14	
K917139		20	0.13	<10	<10	38	10	14	
K917140		<20	0.05	<10	<10	32	<10	464	
K917141		20	0.11	<10	<10	37	40	13	
K917142		20	0.13	<10	<10	40	10	12	
K917143		20	0.13	<10	<10	39	10	13	
K917144		20	0.11	<10	10	31	10	12	
K917145		20	0.11	<10	10	39	30	13	
K917146		20	0.05	<10	10	36	10	15	
K917147		20	<0.01	<10	10	14	10	13	
K917148		20	<0.01	<10	10	15	10	15	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
K917149		7.18	0.007	<0.2	0.87	6	<10	80	<0.5	2	1.03	<0.5	6	10	131	2.21
K917150		0.56	<0.005	<0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	1	0.06
K917151		6.96	0.007	0.2	0.50	10	<10	60	<0.5	<2	1.01	<0.5	5	7	122	1.61
K917152		6.78	0.019	0.3	0.64	9	<10	60	<0.5	4	0.98	<0.5	6	8	184	2.09
K917153		5.44	0.008	0.3	1.00	4	<10	90	<0.5	<2	0.96	<0.5	7	11	183	2.29
K917154		7.12	0.033	0.2	1.03	5	<10	110	<0.5	<2	0.87	<0.5	6	12	181	2.23
K917155		5.08	0.012	0.2	0.93	4	<10	110	<0.5	<2	1.16	<0.5	5	10	113	2.24
K917156		7.36	0.031	0.2	0.78	7	<10	160	<0.5	2	1.54	<0.5	5	9	103	2.16
K917157		7.04	0.035	<0.2	0.62	426	<10	90	0.7	3	3.18	<0.5	5	5	108	2.23
K917158		7.04	0.013	0.2	0.97	30	<10	50	0.6	4	3.18	<0.5	6	7	173	2.23
K917159		7.40	0.011	0.4	0.79	6	<10	70	<0.5	2	0.99	<0.5	5	9	151	2.14
K917160		0.08	0.310	2.7	1.60	28	10	60	<0.5	2	0.81	2.2	10	28	2460	4.39
K917161		6.90	0.016	0.4	0.73	5	<10	70	<0.5	2	0.94	<0.5	9	8	232	2.53
K917162		7.28	0.015	0.2	0.63	4	<10	60	<0.5	5	1.06	<0.5	5	8	105	1.89
K917163		7.18	0.010	<0.2	0.71	28	<10	60	0.6	<2	1.35	<0.5	5	8	82	1.82
K917164		5.36	0.110	1.3	0.46	180	<10	400	0.8	24	2.69	<0.5	5	5	643	1.81
K917165		5.02	0.006	<0.2	0.49	18	<10	70	0.5	<2	1.11	<0.5	5	7	60	1.94
K917166		6.78	0.016	<0.2	0.98	11	<10	100	<0.5	<2	1.02	<0.5	4	9	46	1.92
K917167		6.70	<0.005	0.5	0.92	13	<10	120	<0.5	2	1.11	<0.5	5	10	217	1.97
K917168		6.88	0.005	0.2	0.97	17	<10	60	<0.5	<2	1.07	<0.5	5	9	96	2.10
K917169		6.50	<0.005	<0.2	0.68	66	<10	40	0.8	2	2.12	<0.5	4	4	67	2.07
K917170		0.48	0.005	<0.2	0.04	3	<10	20	<0.5	2	>25.0	<0.5	<1	1	2	0.14
K917171		6.30	0.007	<0.2	0.51	41	<10	40	0.7	3	2.95	<0.5	5	4	72	2.06
K917172		5.88	0.009	<0.2	0.65	30	<10	40	0.7	<2	1.72	<0.5	4	5	66	1.88
K917173		6.50	0.012	0.2	0.74	15	<10	50	<0.5	51	1.09	0.5	5	8	123	1.89
K917174		6.82	<0.005	<0.2	0.87	12	<10	50	<0.5	<2	1.50	<0.5	4	9	62	1.93
K917175		6.66	0.008	<0.2	1.17	56	<10	80	0.6	<2	1.60	<0.5	6	9	85	2.50
K917176		6.14	0.011	0.2	0.72	80	<10	130	0.6	2	2.81	<0.5	6	6	143	2.25
K917177		6.38	0.022	0.2	1.05	56	<10	60	0.6	<2	1.58	<0.5	6	8	123	2.31
K917178		6.80	<0.005	<0.2	1.06	4	<10	90	<0.5	<2	0.67	<0.5	7	11	124	2.15
K917179		7.10	<0.005	<0.2	1.02	6	<10	70	<0.5	<2	0.76	<0.5	4	12	97	2.00
K917180		0.08	0.729	3.0	1.15	14	10	110	<0.5	<2	0.79	<0.5	10	47	7990	2.49
K917181		7.00	<0.005	<0.2	1.01	5	<10	70	<0.5	2	1.13	<0.5	4	10	62	1.93
K917182		6.70	0.009	<0.2	0.91	22	<10	60	<0.5	<2	1.73	<0.5	6	8	68	2.04
K917183		6.78	<0.005	<0.2	0.88	4	<10	90	<0.5	<2	0.93	<0.5	5	9	72	1.97
K917184		7.42	0.012	<0.2	0.41	8	<10	50	0.5	7	1.72	<0.5	5	6	93	2.02
K917185		6.50	<0.005	0.2	0.56	22	<10	50	0.5	5	1.13	<0.5	6	6	111	2.05
K917186		5.74	0.009	0.3	0.36	63	<10	40	0.6	32	1.46	<0.5	4	5	172	1.48
K917187		3.86	0.051	2.8	0.27	590	<10	30	0.5	2500	0.85	1.1	4	4	1030	1.86
K917188		6.44	<0.005	0.9	0.51	99	<10	160	0.6	11	1.64	<0.5	6	4	79	1.21

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
K917149		<10	<1	0.21	20	0.55	135	3	0.07	3	550	5	0.61	2	3	63
K917150		<10	<1	0.01	<10	0.42	103	<1	0.01	<1	70	2	<0.01	<2	<1	89
K917151		<10	<1	0.20	10	0.33	109	3	0.05	2	320	6	0.50	3	2	60
K917152		<10	<1	0.22	20	0.44	118	39	0.05	3	510	6	0.67	<2	3	62
K917153		10	<1	0.28	20	0.59	132	9	0.08	3	550	5	0.62	<2	4	36
K917154		10	<1	0.32	20	0.63	136	5	0.08	4	570	4	0.56	<2	4	37
K917155		<10	<1	0.33	20	0.52	185	3	0.09	4	570	6	0.41	<2	4	63
K917156		<10	<1	0.28	20	0.59	188	1	0.05	3	550	7	0.46	<2	4	88
K917157		<10	<1	0.28	10	0.91	316	1	0.01	3	510	11	1.18	6	4	151
K917158		<10	<1	0.23	20	0.59	295	2	0.05	3	520	5	0.55	<2	3	124
K917159		<10	<1	0.27	20	0.52	142	1	0.06	3	550	7	0.50	<2	3	56
K917160		<10	<1	0.27	<10	0.55	724	235	0.05	19	700	75	2.09	2	2	53
K917161		<10	<1	0.25	20	0.52	143	13	0.06	4	500	5	0.77	<2	3	61
K917162		<10	<1	0.24	20	0.41	147	5	0.07	2	430	6	0.44	<2	3	67
K917163		<10	<1	0.25	20	0.51	181	6	0.04	2	500	7	0.34	3	4	88
K917164		<10	<1	0.23	20	0.77	213	3	0.01	2	440	28	0.44	5	3	134
K917165		<10	<1	0.17	20	0.35	200	2	0.06	3	540	5	0.25	<2	5	85
K917166		<10	<1	0.38	20	0.50	181	<1	0.09	3	520	6	0.19	2	4	60
K917167		<10	<1	0.38	20	0.49	218	1	0.08	3	500	7	0.28	<2	4	54
K917168		10	<1	0.29	20	0.51	155	1	0.07	3	490	4	0.40	<2	4	48
K917169		<10	<1	0.16	20	0.52	158	1	0.02	2	500	8	0.36	3	3	139
K917170		<10	<1	0.01	<10	0.64	88	<1	<0.01	<1	70	<2	0.02	<2	<1	78
K917171		<10	<1	0.16	20	0.65	232	3	0.02	2	470	8	0.50	2	3	147
K917172		<10	<1	0.15	20	0.43	159	<1	0.02	3	530	8	0.25	2	3	127
K917173		<10	<1	0.21	20	0.45	139	1	0.04	3	480	16	0.44	3	3	62
K917174		<10	<1	0.23	20	0.48	182	1	0.05	3	530	6	0.26	<2	3	74
K917175		10	<1	0.22	20	0.54	195	<1	0.07	4	500	6	0.40	4	3	86
K917176		<10	<1	0.17	20	0.45	219	2	0.02	3	470	6	0.66	3	3	141
K917177		10	<1	0.24	20	0.56	160	<1	0.05	4	520	6	0.59	<2	3	65
K917178		10	<1	0.38	20	0.63	138	<1	0.07	3	580	5	0.49	3	4	34
K917179		10	<1	0.39	20	0.61	131	2	0.07	3	530	6	0.36	<2	4	32
K917180		<10	<1	0.10	<10	0.55	396	389	0.07	32	500	7	0.61	3	4	38
K917181		10	<1	0.29	20	0.58	170	3	0.07	3	530	6	0.27	<2	4	46
K917182		<10	<1	0.21	20	0.49	226	<1	0.06	3	520	6	0.30	<2	3	73
K917183		<10	<1	0.32	20	0.56	170	<1	0.06	3	510	5	0.35	<2	4	45
K917184		<10	<1	0.17	20	0.56	206	<1	0.03	3	520	8	0.42	<2	3	113
K917185		<10	<1	0.17	20	0.39	133	1	0.04	3	510	8	0.53	2	3	71
K917186		<10	<1	0.20	10	0.43	119	2	0.01	1	420	14	0.65	5	1	91
K917187		<10	<1	0.17	10	0.12	56	17	<0.01	2	310	157	1.92	40	1	80
K917188		<10	<1	0.17	20	0.38	138	50	0.01	1	490	5	0.26	5	1	83

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
K917149		20	0.01	<10	<10	35	10	14	
K917150		<20	<0.01	<10	<10	<1	<10	2	
K917151		20	<0.01	<10	10	14	20	15	
K917152		20	0.01	<10	10	25	30	15	
K917153		20	0.04	<10	10	44	10	16	
K917154		20	0.07	<10	<10	45	10	16	
K917155		20	0.05	<10	<10	37	10	17	
K917156		20	0.02	<10	<10	28	10	15	
K917157		20	<0.01	<10	<10	11	<10	13	
K917158		20	0.01	<10	10	25	<10	19	
K917159		20	0.02	<10	<10	32	<10	21	
K917160		<20	0.04	<10	<10	30	<10	435	
K917161		20	0.01	<10	10	28	10	16	
K917162		20	0.01	<10	10	21	10	14	
K917163		20	0.01	<10	10	24	10	17	
K917164		20	<0.01	<10	10	10	<10	34	
K917165		20	<0.01	<10	10	22	<10	16	
K917166		20	0.08	<10	10	37	<10	16	
K917167		20	0.08	<10	10	38	<10	20	
K917168		20	0.04	<10	<10	36	<10	15	
K917169		20	<0.01	<10	10	13	<10	18	
K917170		<20	<0.01	<10	<10	<1	<10	2	
K917171		20	<0.01	<10	10	10	<10	14	
K917172		20	<0.01	<10	<10	11	<10	16	
K917173		20	0.02	<10	10	28	10	44	
K917174		20	0.02	<10	10	30	<10	17	
K917175		20	0.02	<10	10	31	<10	19	
K917176		20	<0.01	<10	10	16	20	19	
K917177		20	0.04	<10	10	37	10	18	
K917178		20	0.12	<10	<10	44	10	16	
K917179		20	0.10	<10	10	43	10	17	
K917180		<20	0.11	<10	<10	50	30	60	
K917181		20	0.07	<10	<10	38	<10	17	
K917182		30	0.02	<10	<10	28	<10	18	
K917183		30	0.05	<10	10	39	20	16	
K917184		20	<0.01	<10	<10	17	<10	17	
K917185		30	<0.01	<10	10	17	<10	15	
K917186		20	<0.01	<10	10	4	<10	15	
K917187		<20	<0.01	10	<10	3	<10	45	
K917188		20	<0.01	<10	10	5	<10	11	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917189		6.76	<0.005	<0.2	1.15	11	<10	90	<0.5	6	1.11	<0.5	4	9	36	1.79
K917190		0.52	<0.005	<0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	3	0.11
K917191		6.30	0.005	<0.2	1.23	11	<10	70	<0.5	3	1.16	<0.5	4	10	51	1.91
K917192		7.46	<0.005	<0.2	1.58	3	<10	90	<0.5	2	1.25	<0.5	5	11	52	1.95
K917193		7.22	<0.005	<0.2	1.37	6	<10	80	<0.5	2	1.36	<0.5	6	11	67	2.00
K917194		7.50	0.011	<0.2	0.96	15	<10	50	0.5	19	1.64	<0.5	7	8	115	2.18
K917195		6.78	0.027	<0.2	1.19	15	<10	50	<0.5	4	1.31	<0.5	6	10	75	2.01
K917196		7.34	0.028	<0.2	1.27	3	<10	70	<0.5	3	0.92	<0.5	5	10	62	1.98
K917197		7.10	<0.005	<0.2	1.32	4	<10	80	<0.5	2	0.83	<0.5	6	12	73	2.15
K917198		3.72	<0.005	<0.2	1.34	5	<10	70	<0.5	<2	0.96	<0.5	6	11	64	2.10
K917199		4.96	<0.005	<0.2	1.28	12	<10	60	<0.5	<2	1.13	<0.5	6	10	77	2.11
K917200		0.08	1.300	4.9	1.47	19	10	150	<0.5	3	0.91	<0.5	14	43	>10000	3.53
K917201		5.44	0.089	3.8	1.23	78	<10	70	<0.5	33	1.62	5.0	8	10	1990	2.70
K917202		4.04	<0.005	0.2	0.96	67	<10	70	<0.5	4	1.68	<0.5	8	8	158	2.14
K917203		6.76	0.006	<0.2	1.47	19	<10	90	0.5	<2	1.35	<0.5	7	10	140	2.27
K917204		6.60	<0.005	<0.2	1.31	5	<10	60	<0.5	<2	1.00	<0.5	4	10	90	1.89
K917205		7.08	0.010	0.2	1.94	15	<10	90	0.6	<2	1.46	<0.5	7	10	89	2.33
K917206		6.92	0.011	<0.2	1.43	9	<10	80	0.5	<2	1.27	<0.5	8	10	87	2.09
K917207		7.00	<0.005	<0.2	1.41	4	<10	100	<0.5	2	1.10	<0.5	7	12	93	2.36
K917208		7.28	<0.005	<0.2	1.71	4	<10	110	<0.5	<2	1.07	<0.5	7	12	73	2.33
K917209		7.32	<0.005	<0.2	1.60	5	<10	120	<0.5	<2	1.35	<0.5	7	11	69	2.32
K917210		0.44	<0.005	0.2	0.03	<2	<10	80	<0.5	3	>25.0	<0.5	<1	1	2	0.09
K917211		7.40	<0.005	<0.2	1.80	3	<10	130	<0.5	<2	1.08	<0.5	7	12	62	2.46
K917212		6.96	<0.005	<0.2	1.62	2	<10	120	<0.5	<2	0.97	<0.5	6	13	58	2.14
K917213		7.52	<0.005	<0.2	1.76	2	<10	150	<0.5	2	1.25	<0.5	7	11	56	2.45
K917214		7.24	<0.005	<0.2	1.33	5	<10	80	<0.5	<2	1.58	<0.5	7	9	84	2.34
K917215		7.42	<0.005	0.2	0.71	23	<10	380	0.6	<2	2.51	<0.5	7	6	127	2.17
K917216		7.66	<0.005	<0.2	1.76	<2	<10	140	<0.5	<2	1.31	<0.5	7	11	100	2.23
K917217		7.32	<0.005	<0.2	1.30	17	<10	130	0.6	<2	1.77	<0.5	8	8	93	2.60
K917218		7.26	<0.005	0.2	1.32	3	<10	110	<0.5	<2	1.27	<0.5	8	11	137	2.48
K917219		6.30	<0.005	0.2	1.41	12	<10	80	0.5	<2	1.42	<0.5	9	9	106	2.43
K917220		0.08	0.758	3.0	1.19	13	10	120	<0.5	2	0.82	<0.5	11	48	7830	2.51
K917221		7.14	0.005	0.2	1.31	5	<10	120	<0.5	18	1.10	<0.5	9	11	165	2.35
K917222		7.06	<0.005	0.2	1.08	3	<10	90	<0.5	<2	0.87	<0.5	7	10	117	1.99
K917223		6.92	<0.005	0.2	1.07	3	<10	70	<0.5	2	1.03	<0.5	6	11	140	2.02
K917224		6.84	<0.005	<0.2	1.38	7	<10	130	<0.5	<2	0.83	<0.5	7	11	77	2.07
K917064		10.26	0.014	<0.2	1.06	9	<10	110	<0.5	2	0.71	<0.5	6	10	123	2.36
K917065		10.66	0.013	<0.2	1.05	2	<10	120	<0.5	<2	0.65	<0.5	7	10	93	2.22
K917066		4.96	0.045	<0.2	1.18	2	<10	100	<0.5	<2	0.71	<0.5	8	12	148	2.66
K917067		6.74	0.014	0.2	1.19	3	<10	70	<0.5	<2	0.97	<0.5	10	11	177	2.97

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917189		10	<1	0.24	20	0.41	183	88	0.12	3	530	4	0.19	<2	3	83
K917190		<10	<1	0.01	<10	0.49	96	<1	<0.01	<1	70	2	0.03	<2	<1	89
K917191		10	<1	0.28	20	0.54	191	1	0.10	4	530	3	0.26	2	4	73
K917192		10	<1	0.36	20	0.60	196	1	0.17	3	540	4	0.25	<2	4	81
K917193		10	<1	0.33	20	0.58	179	1	0.13	3	560	5	0.31	<2	4	64
K917194		<10	<1	0.22	20	0.46	203	<1	0.06	3	580	4	0.52	2	4	74
K917195		10	<1	0.23	20	0.54	169	1	0.09	4	480	5	0.31	<2	3	61
K917196		10	<1	0.35	20	0.65	165	2	0.10	3	560	4	0.31	<2	4	50
K917197		10	<1	0.37	20	0.72	174	3	0.10	3	570	5	0.36	<2	4	48
K917198		10	<1	0.35	20	0.68	183	38	0.12	4	560	4	0.35	2	4	51
K917199		10	<1	0.34	20	0.63	175	19	0.10	3	570	4	0.37	<2	4	51
K917200		<10	<1	0.14	10	0.68	506	494	0.12	34	550	9	0.98	<2	5	48
K917201		<10	<1	0.30	20	0.56	170	4	0.08	3	530	84	1.06	4	3	66
K917202		<10	<1	0.23	20	0.47	115	2	0.05	4	550	6	0.76	3	3	60
K917203		10	<1	0.38	20	0.85	116	5	0.09	3	550	4	0.52	<2	4	65
K917204		10	<1	0.37	20	0.86	105	5	0.10	2	500	3	0.37	<2	4	48
K917205		10	<1	0.65	10	1.02	137	3	0.14	3	400	3	0.37	<2	3	77
K917206		10	<1	0.29	20	0.56	150	3	0.16	4	650	6	0.38	<2	4	68
K917207		10	<1	0.42	30	0.69	193	1	0.12	4	610	5	0.39	<2	4	55
K917208		10	<1	0.51	20	0.77	201	13	0.18	3	690	5	0.29	<2	6	73
K917209		10	<1	0.38	20	0.75	218	2	0.15	4	630	4	0.29	<2	5	70
K917210		<10	<1	0.01	<10	0.73	91	<1	0.01	<1	90	<2	0.01	<2	<1	98
K917211		10	<1	0.59	20	0.82	214	2	0.16	3	690	4	0.31	<2	5	80
K917212		10	<1	0.56	20	0.72	169	1	0.14	3	600	2	0.24	<2	4	66
K917213		10	<1	0.61	30	0.84	226	5	0.15	4	670	5	0.24	<2	5	77
K917214		10	<1	0.25	30	0.66	224	1	0.09	3	620	4	0.36	<2	4	79
K917215		<10	<1	0.27	20	0.80	226	1	0.04	3	590	5	0.47	2	4	115
K917216		10	<1	0.51	20	0.68	207	1	0.17	3	590	2	0.35	<2	4	80
K917217		10	<1	0.47	20	0.76	236	1	0.10	4	680	5	0.48	<2	5	107
K917218		10	<1	0.39	20	0.71	178	5	0.11	4	660	6	0.61	2	4	86
K917219		10	<1	0.28	20	0.71	166	2	0.09	4	600	5	0.56	<2	3	90
K917220		<10	<1	0.10	<10	0.56	391	378	0.08	32	490	6	0.61	<2	4	39
K917221		10	<1	0.34	20	0.77	118	5	0.10	4	620	6	0.70	2	5	59
K917222		10	<1	0.32	20	0.69	98	2	0.07	3	610	5	0.55	<2	5	46
K917223		10	<1	0.24	20	0.57	122	1	0.09	4	530	4	0.52	<2	4	48
K917224		10	<1	0.42	20	0.68	126	2	0.12	3	610	4	0.40	2	4	74
K917064		10	<1	0.45	20	0.67	132	<1	0.07	3	580	4	0.57	<2	4	32
K917065		10	<1	0.38	20	0.72	141	<1	0.08	3	610	2	0.36	<2	4	27
K917066		10	<1	0.46	20	0.82	144	2	0.09	3	660	4	0.56	<2	5	26
K917067		10	<1	0.33	20	0.80	163	<1	0.07	4	680	4	0.72	<2	5	26

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K917189		20	0.04	<10	10	35	<10	15	
K917190		<20	<0.01	<10	<10	<1	<10	4	
K917191		20	0.04	<10	<10	36	<10	14	
K917192		20	0.07	<10	<10	49	<10	14	
K917193		20	0.05	<10	<10	39	10	14	
K917194		20	0.02	<10	10	30	10	16	
K917195		20	0.03	<10	10	33	10	14	
K917196		20	0.10	<10	<10	40	10	15	
K917197		20	0.12	<10	<10	40	<10	16	
K917198		20	0.11	<10	<10	38	30	15	
K917199		20	0.08	<10	<10	38	20	17	
K917200		<20	0.13	<10	<10	59	30	75	1.270
K917201		20	0.03	<10	<10	33	30	349	
K917202		20	0.02	<10	<10	28	<10	14	
K917203		20	0.02	<10	<10	39	10	19	
K917204		20	0.04	<10	<10	39	10	17	
K917205		<20	0.05	<10	<10	37	20	17	
K917206		20	0.06	<10	<10	45	20	19	
K917207		20	0.09	<10	<10	44	<10	18	
K917208		20	0.15	<10	<10	55	50	19	
K917209		20	0.08	<10	<10	45	10	18	
K917210		<20	<0.01	<10	<10	1	<10	<2	
K917211		20	0.15	<10	<10	50	20	15	
K917212		20	0.12	<10	<10	48	10	13	
K917213		20	0.14	<10	<10	54	<10	16	
K917214		20	0.02	<10	<10	41	10	16	
K917215		20	0.01	<10	<10	23	<10	15	
K917216		20	0.08	<10	<10	52	<10	13	
K917217		20	0.05	<10	<10	40	<10	15	
K917218		20	0.06	<10	<10	43	<10	19	
K917219		20	0.03	<10	<10	38	<10	19	
K917220		<20	0.12	<10	<10	50	30	57	
K917221		20	0.10	<10	<10	45	<10	18	
K917222		20	0.09	<10	<10	44	10	17	
K917223		20	0.08	<10	<10	38	20	15	
K917224		20	0.12	<10	<10	47	<10	16	
K917064		20	0.13	<10	<10	45	<10	11	
K917065		20	0.14	<10	<10	48	<10	11	
K917066		20	0.15	<10	<10	56	10	12	
K917067		20	0.12	<10	<10	55	<10	13	

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To: TRIUMPH GOLD CORP.
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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917068		6.28	0.006	<0.2	1.21	3	<10	100	<0.5	<2	1.03	<0.5	7	11	135	2.71
K917069		7.14	<0.005	<0.2	1.08	3	<10	90	<0.5	<2	1.47	<0.5	6	8	48	2.19
K917070		0.48	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.13

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
K917068		10	<1	0.32	20	0.70	170	<1	0.10	4	630	3	0.55	<2	4	33
K917069		<10	<1	0.30	20	0.53	190	1	0.06	3	600	3	0.16	<2	4	44
K917070		<10	<1	<0.01	<10	0.57	82	<1	0.01	<1	80	<2	0.08	<2	<1	79

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144061

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
K917068		20	0.08	<10	<10	51	<10	12	
K917069		20	0.05	<10	<10	40	<10	14	
K917070		<20	<0.01	<10	<10	<1	<10	<2	

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CERTIFICATE OF ANALYSIS WH17144061

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au- AA23	CRU- 31	CRU- QC	Cu- OG46
EXTRA- 01	LOG- 21	LOG- 23	ME- ICP41
ME- OG46	PUL- 35	PUL- QC	SPL- 21
WEI- 21			

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17144068

Project: FREEGOLD MOUNTAIN

P.O. No.: 1005139- NOFREG- R1

This report is for 249 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I025752		4.72	0.044	1.1	0.48	517	<10	230	0.5	2	0.84	3.0	2	8	220	2.70
I025753		4.76	0.035	0.7	0.50	386	<10	140	0.5	2	1.12	1.0	3	6	68	2.66
I025754		5.52	0.034	0.9	0.51	233	<10	90	0.5	2	1.06	0.5	3	6	234	2.30
I025755		2.62	0.111	0.5	0.53	86	<10	80	0.5	<2	1.00	<0.5	4	7	236	2.54
I025756		2.70	0.096	1.0	0.54	187	<10	220	0.5	<2	1.12	0.6	4	7	261	2.28
I025757		3.02	0.034	1.8	0.56	81	<10	280	0.5	2	1.24	1.3	7	10	223	2.49
I025758		4.74	0.105	0.8	0.52	88	<10	260	0.5	<2	1.10	0.6	6	8	292	2.59
I025759		4.10	0.648	6.7	0.50	14	<10	150	<0.5	2	1.17	2.1	6	8	2690	2.96
I025760		0.10	0.309	2.7	1.75	29	10	60	<0.5	<2	0.86	2.3	11	31	2640	4.60
I025761		5.02	0.030	0.9	0.49	18	<10	300	0.5	<2	1.16	<0.5	5	6	349	2.23
I025762		5.60	0.024	0.5	0.52	20	<10	90	0.5	<2	1.37	<0.5	5	7	73	2.39
I025763		5.42	0.091	1.0	0.51	29	<10	110	0.5	<2	0.88	<0.5	10	7	462	2.45
I025764		5.50	0.033	0.5	0.54	18	<10	160	0.5	<2	1.07	<0.5	6	7	172	2.31
I025765		5.46	0.010	0.5	0.52	26	<10	160	0.5	<2	1.11	<0.5	9	7	198	2.49
I025766		5.66	0.017	0.6	0.54	12	<10	320	0.5	<2	1.20	<0.5	4	8	175	2.31
I025767		5.02	0.115	1.1	0.50	39	<10	130	0.5	<2	1.28	<0.5	11	9	308	3.26
I025768		5.24	0.049	0.7	0.55	13	<10	200	0.5	<2	1.15	<0.5	9	9	150	2.56
I025769		5.08	0.030	1.0	0.49	12	<10	180	0.5	<2	0.99	<0.5	5	9	449	2.59
I025770		0.44	<0.005	<0.2	0.03	3	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	2	0.07
I025771		5.70	0.046	1.0	0.49	16	<10	230	0.5	<2	1.13	<0.5	6	9	237	2.54
I025772		5.42	0.059	1.0	0.52	16	<10	230	<0.5	<2	0.78	<0.5	6	8	312	2.22
I025773		5.30	0.058	0.5	0.50	13	<10	370	0.5	<2	1.36	<0.5	6	8	37	2.26
I025774		5.50	0.023	0.5	0.54	12	<10	180	0.5	<2	1.32	<0.5	5	7	49	2.39
I025775		5.56	0.040	0.4	0.52	21	<10	230	0.6	<2	1.05	<0.5	11	6	97	2.48
I025776		5.56	0.069	0.5	0.52	18	<10	220	0.5	<2	0.93	<0.5	7	7	164	2.42
I025777		5.66	0.116	0.6	0.50	20	<10	240	0.5	<2	1.18	<0.5	10	6	166	2.53
I025778		5.60	0.040	0.4	0.53	18	<10	270	0.5	<2	0.95	<0.5	10	6	166	2.32
I025779		3.98	0.076	0.5	0.46	12	<10	170	0.5	<2	0.87	<0.5	7	5	138	2.06
I025780		0.10	0.312	2.6	1.52	24	10	60	<0.5	4	0.77	2.1	10	27	2400	4.23
I025781		3.52	0.098	1.0	0.46	22	<10	170	0.5	<2	0.83	<0.5	16	5	218	2.43
I025782		5.66	0.078	0.5	0.46	13	<10	100	0.5	<2	0.84	<0.5	4	7	157	2.29
I025783		5.40	0.216	1.0	0.46	19	<10	310	0.5	<2	0.98	<0.5	10	8	193	2.77
I025784		5.76	0.062	0.7	0.48	16	<10	90	0.5	<2	0.95	<0.5	8	9	184	2.55
I025785		5.68	0.042	0.6	0.46	22	<10	190	<0.5	<2	0.87	<0.5	7	8	174	2.46
I025786		5.70	0.048	0.5	0.44	15	<10	90	<0.5	<2	0.90	<0.5	4	7	153	2.34
I025787		5.42	0.040	0.6	0.47	19	<10	250	0.5	<2	0.91	<0.5	3	7	202	2.38
I025788		5.92	0.043	0.4	0.46	16	<10	170	0.5	<2	0.94	<0.5	3	8	141	2.37
I025789		5.82	0.083	0.9	0.45	24	<10	160	<0.5	<2	1.14	<0.5	8	7	304	2.58
I025790		0.52	<0.005	<0.2	0.05	<2	<10	30	<0.5	<2	>25.0	<0.5	3	1	20	0.22
I025791		5.28	0.036	0.7	0.48	15	<10	280	<0.5	<2	1.05	<0.5	4	8	204	2.32

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I025752		<10	<1	0.28	10	0.61	382	14	0.01	4	460	101	0.91	<2	4	101
I025753		<10	<1	0.28	10	0.71	380	15	0.01	2	420	63	0.76	<2	5	118
I025754		<10	<1	0.28	10	0.66	341	1	0.01	3	460	36	0.59	<2	4	109
I025755		<10	<1	0.29	10	0.68	360	1	0.01	3	440	13	0.74	<2	4	102
I025756		<10	<1	0.29	10	0.68	342	1	0.01	5	490	11	0.59	<2	4	115
I025757		<10	<1	0.29	10	0.75	378	5	0.01	7	520	39	0.63	<2	4	123
I025758		<10	<1	0.29	10	0.72	375	8	0.01	6	500	15	0.84	<2	4	130
I025759		<10	<1	0.28	10	0.81	444	50	0.01	9	480	57	0.92	2	4	130
I025760		<10	<1	0.30	<10	0.58	787	246	0.06	23	740	77	2.26	2	2	57
I025761		<10	<1	0.27	10	0.66	331	4	0.01	5	420	23	0.71	<2	4	124
I025762		<10	<1	0.29	10	0.73	354	5	0.01	4	500	28	0.85	<2	4	145
I025763		<10	<1	0.29	10	0.55	303	4	0.01	6	520	11	1.16	<2	3	121
I025764		<10	<1	0.30	10	0.66	332	4	0.01	4	500	5	0.69	<2	4	150
I025765		<10	<1	0.28	10	0.65	324	6	0.01	4	480	15	0.97	<2	4	147
I025766		<10	<1	0.31	10	0.70	357	5	0.01	3	520	8	0.53	<2	4	166
I025767		<10	<1	0.29	10	0.78	405	2	0.01	9	470	13	1.47	<2	5	178
I025768		<10	1	0.31	10	0.74	385	2	0.01	7	490	10	0.63	<2	4	169
I025769		<10	<1	0.28	10	0.72	390	4	0.01	4	500	4	0.50	<2	4	149
I025770		<10	3	0.01	<10	0.55	79	<1	0.01	<1	60	<2	0.01	2	<1	89
I025771		<10	<1	0.28	10	0.74	386	5	0.01	4	500	6	0.62	<2	4	147
I025772		<10	<1	0.30	10	0.59	329	4	0.01	7	530	7	0.51	<2	4	121
I025773		<10	1	0.28	10	0.80	372	1	0.01	5	500	19	0.46	<2	4	174
I025774		<10	<1	0.30	10	0.79	365	2	0.01	4	540	23	0.48	<2	5	203
I025775		<10	<1	0.29	10	0.70	329	4	0.01	4	560	13	0.65	<2	4	185
I025776		<10	<1	0.29	10	0.66	316	5	0.01	4	510	13	0.64	<2	4	180
I025777		<10	<1	0.28	10	0.75	333	6	0.01	7	550	23	0.72	<2	4	217
I025778		<10	<1	0.29	10	0.67	315	2	0.01	5	560	5	0.47	<2	4	179
I025779		<10	<1	0.26	10	0.61	284	5	0.01	3	490	11	0.28	<2	3	176
I025780		<10	<1	0.26	<10	0.53	708	209	0.06	19	690	71	2.04	3	2	51
I025781		<10	<1	0.26	10	0.63	296	6	0.01	5	410	22	0.63	<2	4	153
I025782		<10	1	0.26	10	0.66	318	1	0.01	5	460	10	0.28	2	4	150
I025783		<10	<1	0.26	10	0.73	345	2	0.01	6	490	18	0.74	2	4	218
I025784		<10	<1	0.28	10	0.70	343	5	0.01	5	480	16	0.58	<2	4	182
I025785		<10	1	0.27	10	0.63	306	4	0.01	6	460	16	0.70	2	3	158
I025786		<10	1	0.25	10	0.64	308	5	0.01	4	450	13	0.47	<2	4	152
I025787		<10	<1	0.27	10	0.62	290	5	0.01	4	480	12	0.67	<2	3	160
I025788		<10	1	0.26	10	0.66	308	4	0.01	4	460	9	0.58	<2	4	171
I025789		<10	<1	0.26	10	0.70	292	3	0.01	8	400	20	1.20	3	4	182
I025790		<10	2	0.01	<10	0.57	91	<1	0.02	4	80	<2	0.10	2	<1	75
I025791		<10	<1	0.28	10	0.67	303	4	0.01	5	440	18	0.83	3	3	210

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I025752		<20	<0.01	<10	<10	22	10	175	
I025753		<20	<0.01	<10	<10	22	10	70	
I025754		<20	<0.01	<10	<10	20	10	38	
I025755		<20	<0.01	<10	<10	25	<10	38	
I025756		<20	<0.01	<10	<10	22	20	42	
I025757		<20	<0.01	<10	<10	23	40	88	
I025758		<20	<0.01	<10	<10	25	30	48	
I025759		<20	<0.01	<10	<10	28	60	145	
I025760		<20	0.05	<10	<10	33	<10	449	
I025761		<20	<0.01	<10	<10	22	30	36	
I025762		<20	<0.01	<10	<10	24	<10	27	
I025763		<20	<0.01	<10	<10	20	20	36	
I025764		<20	<0.01	<10	<10	22	<10	31	
I025765		<20	<0.01	<10	<10	21	<10	35	
I025766		<20	<0.01	<10	<10	24	<10	36	
I025767		<20	<0.01	<10	<10	31	<10	36	
I025768		<20	<0.01	<10	<10	25	<10	37	
I025769		<20	<0.01	<10	<10	28	<10	37	
I025770		<20	<0.01	<10	<10	<1	<10	<2	
I025771		<20	<0.01	<10	<10	28	<10	29	
I025772		<20	<0.01	<10	<10	22	<10	32	
I025773		<20	<0.01	<10	<10	25	<10	24	
I025774		<20	<0.01	<10	<10	24	<10	34	
I025775		<20	<0.01	<10	<10	21	<10	26	
I025776		<20	<0.01	<10	<10	22	<10	26	
I025777		<20	<0.01	<10	<10	21	<10	33	
I025778		<20	<0.01	<10	<10	20	<10	37	
I025779		<20	<0.01	<10	<10	18	<10	38	
I025780		<20	0.04	<10	<10	30	<10	412	
I025781		<20	<0.01	<10	<10	17	<10	29	
I025782		<20	<0.01	<10	<10	21	<10	25	
I025783		<20	<0.01	<10	<10	24	<10	28	
I025784		<20	<0.01	<10	<10	27	<10	31	
I025785		<20	<0.01	<10	<10	23	<10	34	
I025786		<20	<0.01	<10	<10	22	<10	24	
I025787		<20	<0.01	<10	<10	21	<10	29	
I025788		<20	<0.01	<10	<10	25	<10	24	
I025789		<20	<0.01	<10	<10	23	<10	37	
I025790		<20	0.01	<10	<10	1	<10	<2	
I025791		<20	<0.01	<10	<10	22	<10	30	

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I025792		5.72	0.047	0.8	0.44	15	<10	140	<0.5	<2	0.97	<0.5	6	8	164	2.32
I025793		5.62	0.037	0.9	0.44	21	<10	170	<0.5	3	1.35	<0.5	7	7	268	2.44
I025794		5.78	0.083	1.3	0.47	15	<10	170	<0.5	2	1.26	0.5	6	6	345	2.28
I025795		5.78	0.041	1.3	0.46	9	<10	160	<0.5	4	1.07	<0.5	3	6	172	2.10
I025796		5.56	0.028	1.6	0.43	10	<10	160	<0.5	8	1.11	<0.5	4	7	241	1.97
I025797		5.62	0.012	0.9	0.45	10	<10	150	<0.5	4	1.16	0.5	2	6	306	2.07
I025798		2.92	0.012	0.8	0.45	11	<10	120	<0.5	2	1.22	0.5	2	5	149	2.08
I025799		4.06	0.050	0.9	0.49	25	<10	100	<0.5	3	1.83	<0.5	6	6	323	2.46
I025800		0.10	0.322	2.7	1.57	26	10	60	<0.5	2	0.77	2.1	10	28	2430	4.25
I025801		4.84	0.021	0.9	0.47	15	<10	130	<0.5	3	1.26	<0.5	4	6	229	2.29
I025802		5.40	0.032	0.7	0.47	22	<10	80	<0.5	3	1.19	<0.5	4	6	232	2.36
I025803		6.06	0.035	0.7	0.49	21	<10	110	<0.5	<2	1.48	0.5	3	6	233	2.33
I025804		5.32	0.042	0.6	0.51	23	<10	90	<0.5	<2	1.43	<0.5	6	6	220	2.38
I025805		5.90	0.025	0.5	0.51	15	<10	100	<0.5	2	1.47	<0.5	3	6	168	2.29
I025806		5.62	0.034	0.5	0.51	20	<10	90	<0.5	<2	1.22	<0.5	2	6	152	2.18
I025807		5.82	0.012	0.4	0.48	15	<10	110	<0.5	<2	1.25	<0.5	1	5	88	2.08
I025808		5.76	0.022	0.6	0.53	18	<10	90	<0.5	2	1.25	0.5	2	5	148	2.29
I025809		5.66	0.021	0.4	0.46	21	<10	110	<0.5	<2	1.37	<0.5	2	5	125	2.19
I025810		0.46	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.06
I025811		5.68	0.017	0.5	0.49	21	<10	70	<0.5	<2	1.18	<0.5	2	5	198	2.34
I025812		5.84	0.024	0.6	0.48	15	<10	90	<0.5	3	1.34	<0.5	2	5	198	2.32
I025813		5.72	0.109	0.4	0.49	18	<10	110	<0.5	<2	1.85	0.6	2	5	176	2.32
I025814		5.82	0.150	0.4	0.51	19	<10	100	<0.5	2	1.14	<0.5	2	6	158	2.38
I025815		5.58	0.090	0.4	0.46	21	<10	80	<0.5	2	1.34	<0.5	3	5	153	2.21
I025816		3.30	0.010	0.3	0.53	17	<10	100	<0.5	<2	1.39	<0.5	5	6	54	2.41
I025817		5.54	0.082	0.3	0.52	40	<10	90	<0.5	<2	1.12	0.8	12	7	178	2.88
I025818		5.88	0.046	0.3	0.53	32	<10	70	<0.5	3	1.36	0.7	9	10	107	2.85
I025819		2.94	0.032	0.8	0.50	28	<10	70	<0.5	6	0.91	0.5	17	6	22	3.04
I025820		0.10	4.17	0.9	0.25	355	10	140	<0.5	<2	9.6	0.5	5	20	32	1.75
I025821		3.10	0.064	1.3	0.48	55	<10	30	<0.5	19	1.30	0.7	13	7	486	4.18
I025822		4.56	0.051	0.3	0.48	27	<10	110	<0.5	4	1.39	<0.5	15	6	81	2.30
I025823		5.16	0.010	0.2	0.45	21	<10	110	<0.5	3	1.33	<0.5	16	6	4	2.41
I025824		4.76	0.013	0.2	0.48	28	<10	70	<0.5	<2	1.39	<0.5	5	5	69	2.62
I025825		3.50	0.560	0.3	0.50	72	<10	30	<0.5	6	1.44	1.3	10	5	153	3.72
I025826		5.46	0.236	1.2	0.47	42	<10	100	<0.5	2	1.24	<0.5	9	6	282	2.90
I025827		5.24	0.137	0.3	0.49	29	<10	120	<0.5	2	1.35	0.8	14	4	279	2.17
I025828		5.04	0.075	0.3	0.48	22	<10	140	<0.5	<2	1.46	0.7	13	4	179	2.03
I025829		3.48	0.085	0.3	0.52	43	<10	80	<0.5	<2	1.31	0.5	20	5	239	2.60
I025830		0.42	<0.005	<0.2	0.01	<2	<10	20	<0.5	2	>25.0	<0.5	<1	<1	2	0.05
I025831		4.64	<0.005	0.3	0.44	15	<10	140	<0.5	6	0.79	<0.5	8	3	107	1.57

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I025792		<10	<1	0.25	10	0.62	271	5	0.01	4	390	17	1.22	2	3	311
I025793		<10	1	0.26	10	0.60	272	6	0.01	6	390	25	1.49	3	4	236
I025794		<10	<1	0.27	10	0.69	295	4	0.01	4	380	34	1.31	2	4	219
I025795		<10	<1	0.27	10	0.58	247	4	0.01	1	370	17	1.27	<2	4	242
I025796		<10	<1	0.26	10	0.57	262	2	0.01	3	410	17	1.18	2	4	208
I025797		<10	<1	0.26	10	0.56	260	2	0.01	3	400	13	1.33	2	4	209
I025798		<10	<1	0.26	10	0.53	232	1	0.01	3	430	16	1.59	2	3	213
I025799		<10	<1	0.28	10	0.76	321	2	0.01	7	400	22	1.94	<2	4	226
I025800		<10	<1	0.27	<10	0.53	723	226	0.06	20	690	74	2.05	2	2	52
I025801		<10	1	0.27	10	0.54	285	14	0.01	4	450	21	1.72	2	3	235
I025802		<10	<1	0.27	10	0.48	244	7	0.01	4	500	16	2.15	2	3	190
I025803		<10	<1	0.27	10	0.61	290	6	0.01	4	480	12	2.09	3	3	213
I025804		<10	<1	0.27	10	0.59	292	5	0.01	4	490	13	2.15	2	3	208
I025805		<10	<1	0.28	10	0.60	309	8	0.01	3	590	11	2.02	<2	3	300
I025806		<10	1	0.28	10	0.49	250	6	0.01	3	520	8	1.95	2	3	195
I025807		<10	<1	0.26	10	0.51	255	6	0.01	3	470	7	1.84	3	3	213
I025808		<10	1	0.29	10	0.51	242	5	0.01	4	470	9	2.08	2	3	206
I025809		<10	<1	0.27	10	0.55	258	5	0.01	3	540	10	1.97	3	3	252
I025810		<10	3	0.01	<10	0.44	81	<1	0.01	<1	70	2	<0.01	4	<1	88
I025811		<10	<1	0.27	10	0.49	234	9	0.01	4	500	10	2.24	3	3	222
I025812		<10	<1	0.27	10	0.57	256	5	0.01	3	460	9	2.11	2	3	195
I025813		<10	<1	0.28	10	0.56	235	9	0.01	2	480	4	2.11	2	3	221
I025814		<10	<1	0.28	10	0.53	235	3	0.01	2	470	4	2.06	<2	3	233
I025815		<10	<1	0.25	10	0.55	228	11	0.01	3	480	6	1.80	2	3	252
I025816		<10	<1	0.28	10	0.61	249	3	0.01	3	440	2	2.14	2	5	185
I025817		<10	<1	0.28	20	0.49	218	21	0.01	8	670	2	2.67	2	4	150
I025818		<10	<1	0.30	10	0.56	233	55	0.01	4	630	3	2.71	<2	4	191
I025819		<10	<1	0.27	10	0.37	173	21	0.01	3	550	17	3.07	2	3	134
I025820		<10	5	0.10	<10	4.60	324	8	0.01	31	460	9	1.33	58	3	45
I025821		<10	<1	0.26	20	0.53	256	6	0.01	18	440	21	4.07	5	5	208
I025822		<10	1	0.28	10	0.59	261	22	0.01	5	560	5	2.06	2	3	224
I025823		<10	<1	0.27	10	0.56	229	106	0.01	2	440	3	2.16	2	3	203
I025824		<10	<1	0.27	10	0.57	241	42	0.01	4	500	6	2.43	<2	3	238
I025825		<10	<1	0.28	10	0.60	263	65	0.01	8	860	8	3.12	<2	4	297
I025826		<10	<1	0.27	10	0.55	245	99	0.01	5	650	6	2.14	<2	3	226
I025827		<10	<1	0.28	10	0.56	200	24	0.02	4	510	4	1.68	2	3	212
I025828		<10	<1	0.27	10	0.59	194	49	0.02	4	480	4	1.47	2	3	226
I025829		<10	<1	0.28	10	0.54	205	59	0.02	6	520	5	2.22	<2	3	185
I025830		<10	3	<0.01	<10	0.33	82	<1	0.01	<1	80	2	<0.01	2	<1	76
I025831		<10	1	0.28	10	0.27	114	160	0.02	3	570	4	1.39	<2	2	144

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I025792		<20	<0.01	<10	<10	21	<10	32	
I025793		<20	<0.01	<10	<10	20	<10	28	
I025794		<20	<0.01	<10	<10	20	<10	45	
I025795		<20	<0.01	<10	<10	18	<10	33	
I025796		<20	<0.01	<10	<10	18	<10	22	
I025797		<20	<0.01	<10	<10	17	<10	40	
I025798		<20	<0.01	<10	<10	16	<10	44	
I025799		<20	<0.01	<10	<10	21	<10	33	
I025800		<20	0.04	<10	<10	30	<10	418	
I025801		<20	<0.01	<10	<10	17	<10	41	
I025802		<20	<0.01	<10	<10	17	<10	39	
I025803		<20	<0.01	<10	<10	19	10	46	
I025804		<20	<0.01	<10	<10	17	<10	35	
I025805		<20	<0.01	<10	<10	17	<10	34	
I025806		<20	<0.01	<10	<10	14	<10	33	
I025807		<20	<0.01	<10	<10	14	<10	34	
I025808		<20	<0.01	<10	<10	16	10	40	
I025809		<20	<0.01	<10	<10	16	10	35	
I025810		<20	<0.01	<10	<10	<1	<10	2	
I025811		<20	<0.01	<10	<10	13	10	38	
I025812		<20	<0.01	<10	<10	16	10	38	
I025813		<20	<0.01	<10	<10	15	10	42	
I025814		<20	<0.01	<10	<10	16	10	35	
I025815		<20	<0.01	<10	<10	15	10	21	
I025816		<20	<0.01	<10	<10	20	<10	16	
I025817		<20	<0.01	<10	<10	18	<10	54	
I025818		<20	<0.01	<10	<10	23	10	52	
I025819		<20	<0.01	<10	<10	14	10	50	
I025820		<20	<0.01	<10	<10	37	40	64	
I025821		<20	<0.01	<10	<10	23	10	48	
I025822		<20	<0.01	<10	<10	17	10	22	
I025823		<20	<0.01	<10	<10	20	<10	16	
I025824		<20	<0.01	<10	<10	17	10	33	
I025825		<20	<0.01	<10	<10	19	10	73	
I025826		<20	<0.01	<10	<10	18	10	33	
I025827		<20	<0.01	<10	<10	13	10	45	
I025828		<20	<0.01	<10	<10	13	10	43	
I025829		<20	<0.01	<10	<10	14	10	33	
I025830		<20	<0.01	<10	<10	<1	<10	<2	
I025831		<20	<0.01	<10	<10	7	10	13	

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I025832		2.76	0.011	2.9	0.52	42	10	60	<0.5	134	2.92	0.8	16	8	806	4.63
I025833		2.72	<0.005	<0.2	0.40	9	<10	110	<0.5	2	1.08	<0.5	<1	3	3	1.13
I025834		3.74	0.006	0.2	0.45	9	<10	230	<0.5	<2	0.74	<0.5	2	3	16	1.14
I025835		4.00	0.010	0.9	0.57	8	<10	120	<0.5	5	1.25	<0.5	10	7	207	2.43
I025836		2.74	0.060	1.6	0.50	9	<10	100	<0.5	2	1.44	1.0	12	6	1290	2.64
I025837		2.78	<0.005	0.3	0.37	3	<10	470	<0.5	<2	1.11	<0.5	1	3	151	1.03
I025838		5.32	<0.005	0.2	0.45	2	<10	260	<0.5	<2	0.46	<0.5	<1	3	57	0.70
I025839		5.54	0.008	0.4	0.47	32	<10	190	<0.5	<2	0.49	1.5	11	3	178	1.62
I025840		0.10	0.313	2.7	1.66	26	10	60	<0.5	2	0.81	2.2	10	29	2480	4.38
I025841		5.74	<0.005	0.3	0.46	5	<10	370	<0.5	<2	0.74	<0.5	3	3	106	1.51
I025842		5.56	0.020	0.3	0.46	11	<10	130	<0.5	<2	0.83	<0.5	4	3	185	1.32
I025843		5.70	0.009	0.6	0.45	6	<10	250	<0.5	3	0.93	<0.5	6	3	332	1.39
I025844		5.40	0.009	0.4	0.50	7	<10	160	<0.5	<2	1.17	<0.5	6	4	198	1.62
I025845		3.14	0.066	1.6	0.49	10	<10	140	<0.5	<2	1.48	0.6	22	5	1275	2.57
I025846		2.94	0.515	5.7	0.48	24	<10	70	<0.5	2	1.57	2.4	30	5	4160	4.43
I025847		5.74	0.014	0.3	0.52	5	<10	160	<0.5	<2	1.29	<0.5	5	5	127	1.65
I025848		6.26	0.013	0.4	0.55	11	<10	100	<0.5	3	1.75	<0.5	12	8	256	2.90
I025849		5.88	0.026	0.3	0.48	8	<10	70	<0.5	<2	1.31	<0.5	6	10	200	2.69
I025850		0.32	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.06
I025851		5.54	0.009	0.3	0.42	10	<10	60	<0.5	<2	1.13	<0.5	10	10	113	2.78
I025852		5.74	0.024	0.3	0.44	10	<10	90	0.5	<2	1.31	<0.5	4	10	135	2.74
I025853		5.44	0.106	0.4	0.46	8	<10	60	<0.5	<2	1.40	<0.5	2	5	222	1.63
I025854		5.38	0.065	0.2	0.45	20	<10	100	<0.5	<2	0.99	<0.5	1	4	118	1.81
I025855		5.52	0.217	0.3	0.41	36	<10	110	<0.5	<2	1.13	<0.5	11	4	126	2.65
I025856		4.40	0.057	0.4	0.43	34	<10	120	<0.5	3	1.29	<0.5	4	5	300	2.57
I025857		4.32	0.031	0.3	0.41	28	<10	110	<0.5	<2	1.09	<0.5	3	5	128	2.28
I025858		5.72	0.080	0.3	0.44	9	<10	100	<0.5	<2	1.23	<0.5	3	7	142	2.11
I025859		6.12	0.011	0.3	0.37	13	<10	100	<0.5	2	1.24	<0.5	5	7	158	2.33
I025860		0.10	0.328	2.5	1.57	24	<10	60	<0.5	3	0.78	2.0	10	28	2400	4.26
I025861		5.30	0.008	0.3	0.41	9	<10	100	<0.5	2	1.14	<0.5	4	6	274	2.26
I025862		5.04	0.020	0.3	0.39	18	<10	60	<0.5	2	1.06	<0.5	6	8	174	2.90
I025863		5.60	<0.005	0.2	0.39	7	<10	550	<0.5	2	0.97	<0.5	3	8	100	2.98
I025864		4.22	0.006	0.5	0.42	67	<10	30	<0.5	2	1.57	<0.5	6	5	252	3.21
I025865		6.16	<0.005	0.3	0.40	16	<10	260	<0.5	3	1.07	<0.5	4	9	216	3.49
I025866		6.62	<0.005	0.9	0.38	28	<10	130	<0.5	3	1.05	0.5	10	10	489	4.42
I025867		5.90	<0.005	0.3	0.46	12	<10	90	<0.5	3	1.10	<0.5	4	6	189	2.65
I025868		5.82	<0.005	0.6	0.43	10	<10	50	<0.5	3	1.07	<0.5	5	6	301	2.99
I025869		6.30	<0.005	0.7	0.50	15	<10	190	0.5	4	1.32	0.6	5	6	273	2.81
I025870		0.38	<0.005	<0.2	0.01	2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.05
I025871		5.28	<0.005	0.5	0.46	11	<10	250	<0.5	7	1.16	<0.5	3	5	201	2.32

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I025832		<10	<1	0.27	10	1.33	481	3560	0.02	8	610	38	4.32	5	4	204
I025833		<10	<1	0.26	<10	0.18	88	97	0.01	<1	550	2	0.96	<2	2	95
I025834		<10	<1	0.27	10	0.27	114	117	0.01	<1	540	2	0.92	<2	2	185
I025835		<10	<1	0.30	10	0.59	236	10	0.02	2	780	8	0.64	2	3	185
I025836		<10	1	0.28	30	0.61	243	3	0.02	5	800	3	0.80	2	3	217
I025837		<10	<1	0.25	20	0.39	115	23	0.02	1	550	<2	0.13	2	2	157
I025838		<10	<1	0.27	20	0.18	73	120	0.02	<1	510	<2	0.05	<2	1	113
I025839		<10	1	0.27	10	0.21	91	66	0.02	3	530	8	0.95	3	1	107
I025840		<10	<1	0.29	<10	0.55	752	244	0.06	21	710	74	2.11	2	2	55
I025841		<10	1	0.27	20	0.31	136	18	0.02	2	580	3	0.43	2	2	141
I025842		<10	<1	0.27	10	0.29	105	21	0.02	2	560	<2	0.40	<2	2	158
I025843		<10	<1	0.26	10	0.32	104	26	0.02	3	560	2	0.48	2	2	190
I025844		<10	<1	0.27	10	0.46	151	45	0.02	1	730	2	0.47	<2	2	215
I025845		<10	1	0.26	10	0.62	243	125	0.02	3	640	<2	1.23	<2	3	256
I025846		<10	1	0.26	40	0.67	236	5	0.02	16	470	5	3.31	<2	3	266
I025847		<10	<1	0.28	10	0.55	180	5	0.02	2	620	<2	0.22	2	3	288
I025848		<10	<1	0.27	10	0.84	278	5	0.02	7	550	3	0.95	2	4	302
I025849		<10	<1	0.24	20	0.71	241	5	0.04	5	580	<2	0.55	<2	5	237
I025850		<10	3	<0.01	<10	0.43	98	<1	0.01	<1	70	<2	<0.01	2	<1	89
I025851		<10	<1	0.22	20	0.70	229	22	0.04	8	520	9	0.57	<2	5	183
I025852		<10	<1	0.24	20	0.72	250	12	0.04	7	620	6	0.63	<2	6	198
I025853		<10	<1	0.22	10	0.39	128	46	0.03	7	620	<2	0.78	3	2	165
I025854		<10	<1	0.23	10	0.42	137	36	0.03	2	610	<2	0.97	<2	2	161
I025855		<10	<1	0.21	10	0.49	171	36	0.04	4	630	<2	1.82	<2	3	184
I025856		<10	1	0.22	10	0.56	203	40	0.04	5	550	2	1.54	2	3	209
I025857		<10	<1	0.20	10	0.50	187	26	0.04	4	570	2	1.16	2	3	175
I025858		<10	<1	0.22	10	0.57	218	10	0.05	4	550	<2	0.71	<2	3	202
I025859		<10	1	0.19	10	0.56	232	36	0.05	4	520	<2	0.92	<2	3	191
I025860		<10	1	0.27	<10	0.53	717	231	0.05	20	690	72	2.06	4	2	53
I025861		<10	<1	0.20	10	0.51	212	4	0.05	4	600	2	0.97	<2	3	205
I025862		<10	<1	0.19	10	0.57	240	10	0.05	5	560	4	1.15	2	4	152
I025863		<10	<1	0.19	10	0.66	305	11	0.05	3	490	<2	0.36	2	4	144
I025864		<10	<1	0.19	10	0.60	258	8	0.04	5	410	4	2.39	<2	3	251
I025865		<10	<1	0.19	10	0.70	337	4	0.04	3	500	2	0.63	<2	4	165
I025866		<10	<1	0.19	10	0.69	335	3	0.04	8	520	<2	1.49	<2	4	177
I025867		<10	<1	0.22	10	0.56	243	5	0.04	3	630	2	0.68	<2	3	151
I025868		<10	1	0.21	10	0.55	245	5	0.04	5	650	3	1.08	<2	3	137
I025869		<10	<1	0.20	10	0.59	232	3	0.03	7	530	4	1.27	2	3	190
I025870		<10	3	<0.01	<10	0.34	77	<1	0.01	<1	60	<2	<0.01	5	<1	86
I025871		<10	<1	0.21	10	0.55	215	10	0.04	3	510	2	0.73	2	3	234

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I025832		<20	<0.01	<10	<10	23	160	37	
I025833		<20	<0.01	<10	<10	5	20	4	
I025834		<20	<0.01	<10	<10	5	20	9	
I025835		<20	<0.01	<10	<10	21	10	25	
I025836		<20	<0.01	<10	10	18	220	57	
I025837		<20	<0.01	<10	<10	8	10	7	
I025838		<20	<0.01	<10	<10	4	<10	5	
I025839		<20	<0.01	<10	<10	6	60	72	
I025840		<20	0.04	<10	<10	31	<10	431	
I025841		<20	<0.01	<10	<10	7	20	7	
I025842		<20	<0.01	<10	<10	7	<10	7	
I025843		<20	<0.01	<10	<10	7	<10	16	
I025844		<20	<0.01	<10	<10	12	<10	15	
I025845		<20	<0.01	<10	<10	16	80	39	
I025846		<20	<0.01	<10	<10	15	770	103	
I025847		<20	<0.01	<10	<10	15	10	14	
I025848		<20	<0.01	<10	<10	22	120	25	
I025849		<20	<0.01	<10	<10	25	10	26	
I025850		<20	<0.01	<10	<10	<1	<10	<2	
I025851		<20	<0.01	<10	<10	27	<10	25	
I025852		<20	<0.01	<10	<10	28	<10	33	
I025853		<20	<0.01	<10	<10	13	10	15	
I025854		<20	<0.01	<10	<10	13	120	14	
I025855		<20	<0.01	<10	<10	16	30	14	
I025856		<20	<0.01	<10	10	18	30	21	
I025857		<20	<0.01	<10	<10	18	20	20	
I025858		<20	<0.01	<10	<10	23	20	16	
I025859		<20	<0.01	<10	<10	21	40	27	
I025860		<20	0.04	<10	<10	30	<10	415	
I025861		<20	<0.01	<10	<10	17	70	24	
I025862		<20	<0.01	<10	<10	20	30	20	
I025863		<20	<0.01	<10	<10	23	20	23	
I025864		<20	<0.01	<10	<10	14	450	20	
I025865		<20	<0.01	<10	<10	27	30	28	
I025866		<20	<0.01	<10	<10	31	10	34	
I025867		<20	<0.01	<10	<10	19	40	19	
I025868		<20	<0.01	<10	<10	19	40	27	
I025869		<20	<0.01	<10	<10	18	10	32	
I025870		<20	<0.01	<10	<10	<1	<10	<2	
I025871		<20	<0.01	<10	<10	17	10	18	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I025872		5.78	<0.005	0.6	0.43	15	<10	130	<0.5	3	1.28	<0.5	6	5	355	2.75
I025873		5.98	<0.005	0.7	0.44	11	<10	90	0.5	5	2.06	0.7	5	5	479	2.60
I025874		6.48	<0.005	0.6	0.52	8	<10	80	0.5	8	1.14	<0.5	4	5	302	2.62
I025875		5.98	0.011	0.5	0.55	10	<10	110	0.5	3	1.14	<0.5	5	4	214	2.60
I025876		5.90	0.006	0.6	0.50	14	<10	110	0.5	6	1.21	<0.5	4	4	287	2.43
I025877		5.70	0.074	0.6	0.53	15	<10	130	0.5	3	1.20	<0.5	4	4	290	2.39
I025878		6.38	0.209	0.7	0.55	34	<10	60	0.6	6	1.33	<0.5	4	6	384	2.51
I025879		5.96	0.025	0.6	0.52	24	<10	50	0.6	6	1.60	<0.5	5	4	278	2.92
I025880		0.10	0.335	2.8	1.56	26	10	60	<0.5	2	0.76	2.1	10	27	2400	4.22
I025881		5.46	0.073	0.6	0.52	21	<10	150	0.5	4	0.90	<0.5	5	4	279	2.41
I025882		6.10	0.226	0.7	0.55	235	<10	70	0.5	9	0.95	<0.5	12	4	349	2.58
I025883		5.54	0.052	0.7	0.53	47	<10	80	<0.5	6	0.61	<0.5	8	5	487	2.15
I025884		5.44	0.006	0.7	0.53	8	<10	110	0.5	8	0.76	<0.5	5	5	270	2.65
I025885		6.34	<0.005	0.9	0.51	10	<10	270	<0.5	16	1.35	<0.5	6	5	382	2.86
I025886		5.80	<0.005	0.6	0.58	9	<10	250	0.5	5	0.98	<0.5	5	5	346	2.72
I025887		6.24	0.005	1.0	0.55	60	10	120	0.5	6	0.81	<0.5	12	5	526	4.02
I025888		6.22	<0.005	1.3	0.56	26	10	70	<0.5	5	0.90	0.5	15	5	801	5.44
I025889		6.10	<0.005	1.0	0.57	21	10	90	0.5	6	0.95	<0.5	11	5	595	4.55
I025890		0.48	<0.005	<0.2	0.03	2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.07
I025891		2.94	<0.005	0.6	0.54	4	<10	260	0.6	4	1.02	<0.5	5	5	297	2.94
I025892		3.94	<0.005	0.6	0.57	6	10	130	0.6	3	1.05	<0.5	5	5	313	3.08
I025893		3.36	<0.005	2.1	0.51	45	10	20	0.6	6	1.68	0.6	20	4	978	8.19
I025894		5.36	<0.005	0.7	0.55	8	10	180	0.7	5	1.49	<0.5	6	5	437	3.35
I025895		6.06	<0.005	0.9	0.55	8	10	110	0.7	9	1.81	<0.5	5	7	381	3.56
I025896		5.96	<0.005	0.8	0.61	13	10	70	0.8	5	1.76	<0.5	4	6	409	2.95
I025897		6.04	0.135	1.4	0.53	45	<10	20	0.7	10	1.38	0.5	5	5	539	3.46
I025898		3.78	0.363	1.6	0.52	216	<10	20	0.6	7	0.71	0.5	4	4	708	3.64
I025899		4.86	0.151	1.5	0.62	50	<10	50	0.7	3	1.58	0.6	25	4	660	3.78
I025900		0.10	0.754	3.0	1.16	14	10	120	<0.5	4	0.78	<0.5	10	48	7990	2.51
I025901		5.92	0.082	0.8	0.67	22	<10	80	0.9	<2	2.15	<0.5	10	6	370	3.37
I025902		4.48	0.017	0.6	0.59	50	<10	60	0.9	<2	1.91	<0.5	12	4	222	3.06
I025903		4.76	0.032	0.5	0.61	47	<10	100	0.9	<2	1.94	0.5	6	5	184	2.18
I025904		2.70	0.174	1.1	0.43	238	<10	10	0.6	<2	1.25	1.0	9	4	432	3.87
I025905		5.68	0.043	0.7	0.72	50	<10	180	0.9	<2	1.91	0.6	10	5	298	2.81
I025906		5.26	0.045	0.6	1.22	38	<10	100	0.7	<2	0.96	<0.5	11	8	315	3.56
I025907		3.68	0.047	0.8	1.60	75	<10	100	0.9	<2	1.76	<0.5	13	7	516	3.69
I025908		5.84	0.027	0.3	0.86	34	<10	110	1.0	<2	5.05	<0.5	9	5	308	3.29
I025909		5.40	0.066	1.2	0.79	149	<10	140	0.7	<2	1.81	<0.5	11	6	511	3.07
I025910		0.52	<0.005	<0.2	0.02	2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	3	0.06
I025911		5.94	0.097	1.3	1.09	33	<10	110	<0.5	<2	1.26	<0.5	12	9	569	3.44

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I025872		<10	1	0.20	10	0.56	230	6	0.04	6	480	3	1.39	2	3	271
I025873		<10	1	0.20	10	0.52	219	7	0.04	5	420	2	2.01	<2	3	306
I025874		<10	1	0.23	10	0.47	200	4	0.03	4	510	4	1.86	<2	3	240
I025875		<10	<1	0.23	10	0.48	197	2	0.03	4	500	2	1.77	<2	3	191
I025876		<10	<1	0.22	10	0.48	197	3	0.03	4	570	3	1.63	<2	3	277
I025877		<10	1	0.23	10	0.50	212	7	0.03	4	540	<2	1.54	<2	3	178
I025878		<10	<1	0.25	10	0.52	204	6	0.03	3	550	2	1.88	4	3	224
I025879		<10	<1	0.26	10	0.61	237	2	0.03	3	600	3	1.54	3	3	253
I025880		<10	1	0.27	<10	0.52	716	233	0.06	20	660	71	2.04	3	2	52
I025881		<10	<1	0.23	10	0.46	208	3	0.02	4	620	3	0.93	2	3	288
I025882		<10	1	0.25	10	0.43	197	8	0.02	6	620	3	1.53	<2	2	171
I025883		<10	1	0.22	10	0.29	152	5	0.02	6	650	2	1.07	2	2	156
I025884		<10	1	0.22	20	0.46	198	4	0.02	5	620	4	0.78	2	2	281
I025885		<10	1	0.21	20	0.58	225	2	0.03	5	630	6	0.87	<2	3	247
I025886		<10	1	0.24	10	0.53	206	4	0.02	4	630	3	0.56	<2	4	225
I025887		<10	<1	0.22	10	0.52	200	12	0.02	5	620	5	1.80	<2	3	148
I025888		<10	<1	0.23	10	0.53	199	20	0.02	5	610	7	3.12	<2	3	425
I025889		<10	<1	0.25	10	0.55	215	17	0.03	5	620	6	2.05	2	3	154
I025890		<10	3	0.01	<10	0.59	78	<1	0.01	<1	70	<2	<0.01	2	<1	81
I025891		<10	<1	0.27	10	0.52	212	4	0.03	4	610	6	0.82	<2	3	154
I025892		<10	<1	0.27	10	0.52	225	3	0.03	4	630	5	1.00	<2	3	146
I025893		<10	1	0.24	20	0.60	247	26	0.03	15	610	13	6.19	4	5	150
I025894		<10	<1	0.25	10	0.66	249	9	0.03	4	550	6	1.11	3	4	171
I025895		<10	<1	0.24	10	0.81	281	10	0.03	6	670	6	1.10	<2	5	175
I025896		<10	<1	0.26	10	0.66	224	8	0.03	5	640	7	1.99	3	4	257
I025897		<10	<1	0.25	<10	0.51	228	8	0.02	4	560	10	3.33	3	3	160
I025898		<10	1	0.23	10	0.26	94	20	0.02	5	380	11	3.72	5	2	114
I025899		<10	<1	0.24	20	0.65	153	126	0.02	5	780	8	2.33	4	5	126
I025900		<10	1	0.10	<10	0.55	407	389	0.08	33	510	6	0.61	2	4	38
I025901		<10	1	0.26	20	0.94	212	70	0.03	6	840	7	0.81	3	6	271
I025902		<10	1	0.29	10	0.70	140	19	0.03	5	790	10	2.11	6	4	97
I025903		<10	<1	0.31	10	0.67	148	40	0.02	4	770	14	1.20	2	5	99
I025904		<10	1	0.21	10	0.49	96	31	0.02	5	460	56	3.78	18	2	56
I025905		<10	<1	0.28	20	0.70	174	21	0.02	5	870	21	1.13	4	6	130
I025906		<10	<1	0.42	20	0.84	158	20	0.07	6	870	17	0.90	4	6	89
I025907		<10	<1	0.38	30	0.90	151	42	0.12	7	880	6	1.19	4	7	120
I025908		<10	<1	0.30	20	1.16	238	13	0.05	5	750	6	0.67	5	6	308
I025909		<10	<1	0.27	20	0.76	156	56	0.05	5	830	10	0.87	5	6	106
I025910		<10	2	0.01	<10	0.39	73	<1	0.01	<1	70	<2	<0.01	<2	<1	86
I025911		10	<1	0.43	30	0.91	168	73	0.09	6	820	9	0.96	2	6	64

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I025872		<20	<0.01	<10	<10	16	10	20	
I025873		<20	<0.01	<10	<10	14	100	38	
I025874		<20	<0.01	<10	<10	14	30	25	
I025875		<20	<0.01	<10	<10	13	10	19	
I025876		<20	<0.01	<10	<10	13	10	26	
I025877		<20	<0.01	<10	<10	13	20	18	
I025878		<20	<0.01	<10	<10	14	50	18	
I025879		<20	<0.01	<10	<10	14	20	28	
I025880		<20	0.04	<10	<10	30	<10	415	
I025881		<20	<0.01	<10	<10	13	110	20	
I025882		<20	<0.01	<10	<10	11	70	17	
I025883		<20	<0.01	<10	<10	11	10	15	
I025884		<20	<0.01	<10	<10	17	10	17	
I025885		<20	<0.01	<10	<10	17	10	19	
I025886		<20	<0.01	<10	<10	15	60	14	
I025887		<20	<0.01	<10	<10	14	140	28	
I025888		<20	<0.01	<10	<10	14	210	36	
I025889		<20	<0.01	<10	<10	14	150	33	
I025890		<20	<0.01	<10	<10	<1	<10	2	
I025891		<20	<0.01	<10	<10	14	10	13	
I025892		<20	<0.01	<10	<10	15	40	20	
I025893		<20	<0.01	<10	<10	17	140	40	
I025894		<20	<0.01	<10	<10	16	10	26	
I025895		<20	<0.01	<10	<10	19	10	35	
I025896		<20	<0.01	<10	<10	13	20	22	
I025897		<20	<0.01	<10	<10	12	90	34	
I025898		<20	<0.01	<10	<10	7	80	34	
I025899		<20	<0.01	<10	10	23	180	43	
I025900		<20	0.11	<10	<10	51	30	57	
I025901		<20	<0.01	<10	<10	29	<10	38	
I025902		<20	<0.01	<10	<10	18	<10	28	
I025903		<20	<0.01	<10	<10	18	<10	35	
I025904		<20	<0.01	<10	<10	11	<10	87	
I025905		<20	<0.01	<10	<10	29	<10	41	
I025906		20	0.04	<10	<10	50	<10	35	
I025907		20	0.03	<10	<10	49	<10	35	
I025908		<20	<0.01	<10	<10	30	<10	42	
I025909		20	<0.01	<10	<10	29	<10	40	
I025910		<20	<0.01	<10	<10	<1	<10	2	
I025911		20	0.04	<10	<10	52	10	41	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I025912		2.68	0.238	1.7	1.35	22	<10	100	<0.5	<2	1.11	<0.5	12	10	521	3.69
I025913		4.92	0.545	1.2	1.04	29	<10	90	<0.5	2	1.99	<0.5	11	9	546	3.39
I025914		3.86	0.018	<0.2	1.48	8	<10	190	<0.5	<2	1.01	<0.5	11	11	176	3.31
I025915		5.78	0.049	0.8	1.38	11	<10	140	<0.5	<2	0.91	<0.5	11	11	424	3.39
I025916		6.10	0.114	1.2	1.43	7	<10	140	0.5	13	1.04	<0.5	13	11	580	3.60
I025917		5.96	0.077	1.1	1.43	9	<10	130	<0.5	2	1.00	<0.5	10	11	542	3.36
I025918		5.32	0.049	1.1	0.87	41	<10	120	0.7	2	1.36	<0.5	12	7	454	3.26
I025919		3.38	0.055	0.6	1.20	53	<10	170	0.9	<2	1.05	<0.5	9	7	323	2.47
I025920		0.10	1.355	4.8	1.38	17	10	140	<0.5	2	0.84	<0.5	13	41	>10000	3.36
I025921		5.24	0.089	0.9	1.27	22	<10	70	0.7	<2	0.98	<0.5	16	9	438	3.44
I025922		5.62	0.017	0.3	1.85	15	<10	140	0.6	2	1.16	<0.5	10	10	220	3.13
I025923		5.54	0.031	1.0	1.36	27	<10	100	<0.5	3	0.96	<0.5	17	10	407	4.06
I025924		5.66	0.032	1.9	1.61	23	<10	140	0.5	2	1.16	<0.5	12	11	379	3.17
I025925		5.94	0.007	<0.2	1.37	4	<10	170	<0.5	<2	1.38	<0.5	9	10	129	2.99
I025926		5.90	0.010	0.2	1.26	3	<10	190	<0.5	<2	1.03	<0.5	9	9	154	2.74
I025927		5.96	0.007	<0.2	1.22	4	<10	220	<0.5	2	0.76	<0.5	8	11	122	2.61
I025928		6.24	<0.005	<0.2	1.27	4	<10	160	<0.5	2	1.40	<0.5	8	11	105	2.84
I025929		5.76	0.035	0.4	0.98	11	<10	100	0.5	3	1.26	<0.5	9	8	252	2.77
I025930		0.44	<0.005	<0.2	0.04	2	<10	30	<0.5	<2	>25.0	<0.5	<1	<1	5	0.13
I025931		5.84	0.006	0.2	1.11	48	<10	160	<0.5	<2	1.23	<0.5	8	10	197	3.07
I025932		5.60	0.054	0.8	1.27	7	<10	180	<0.5	<2	1.07	<0.5	10	11	347	3.14
I025933		3.72	0.008	0.2	1.20	4	<10	160	<0.5	<2	1.83	<0.5	7	11	112	2.74
I025934		5.58	0.058	1.2	0.41	31	<10	320	<0.5	5	0.16	1.0	22	3	373	3.29
I025935		8.78	0.012	0.4	0.36	12	<10	260	<0.5	4	0.08	<0.5	38	3	261	2.62
I025936		8.62	0.169	1.1	0.48	7	<10	230	<0.5	2	0.10	<0.5	19	5	381	1.71
I025937		8.46	0.812	2.1	0.47	25	<10	100	<0.5	7	0.77	16.0	209	6	1865	3.50
I025938		8.60	0.204	1.2	0.45	23	<10	160	<0.5	4	0.51	5.4	100	3	746	2.26
I025939		7.72	0.020	0.4	0.50	5	<10	350	<0.5	<2	0.39	0.9	28	3	631	1.40
I025940		0.10	0.320	2.6	1.68	29	10	60	<0.5	2	0.81	2.1	11	29	2560	4.51
I025941		8.56	0.068	0.4	0.41	8	<10	250	<0.5	5	0.31	1.4	25	2	608	0.76
I025942		8.66	0.012	0.6	0.43	5	<10	170	<0.5	3	0.29	0.9	20	2	395	0.89
I025943		7.04	0.018	0.5	0.46	4	<10	180	<0.5	<2	0.35	0.8	16	3	404	1.14
I025944		8.80	0.037	0.4	0.42	5	<10	430	<0.5	<2	0.49	1.5	15	8	681	1.94
I025945		7.82	0.034	0.2	0.40	11	<10	630	<0.5	2	0.16	0.6	17	3	515	1.55
I025946		7.18	0.037	0.3	0.44	24	<10	370	<0.5	<2	0.24	0.8	21	3	565	2.14
I025947		7.48	0.069	0.3	0.43	28	<10	390	<0.5	<2	0.38	1.0	20	3	305	2.40
I025948		4.22	0.068	0.3	0.38	24	<10	340	<0.5	3	0.45	1.2	22	3	163	2.52
I025949		12.20	0.066	0.4	0.37	18	<10	430	<0.5	3	0.32	<0.5	10	4	271	1.41
I025950		0.50	<0.005	<0.2	0.02	2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	3	0.05
I025951		7.86	0.075	1.1	0.35	11	<10	550	<0.5	2	0.24	<0.5	7	9	879	1.52

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I025912		10	<1	0.42	30	1.08	171	11	0.09	6	910	6	1.06	<2	7	59
I025913		10	<1	0.33	20	0.88	162	35	0.06	5	890	7	1.09	3	6	57
I025914		10	<1	0.70	20	0.95	142	2	0.15	5	880	5	0.70	<2	5	61
I025915		10	<1	0.63	20	1.00	160	28	0.10	6	870	3	0.84	<2	6	55
I025916		10	<1	0.40	20	0.97	168	68	0.09	6	890	7	1.11	<2	6	59
I025917		10	1	0.37	30	0.92	155	29	0.10	6	860	6	0.92	<2	6	63
I025918		<10	<1	0.22	30	0.50	156	35	0.05	8	910	9	1.45	<2	5	88
I025919		<10	<1	0.33	20	0.45	134	36	0.05	5	880	26	0.71	2	6	122
I025920		<10	<1	0.13	10	0.64	499	487	0.12	34	550	9	0.93	3	5	46
I025921		10	<1	0.37	20	0.71	135	123	0.06	8	670	4	1.62	<2	4	78
I025922		10	<1	0.63	30	0.96	164	11	0.17	5	830	4	0.64	<2	6	96
I025923		10	<1	0.42	20	0.88	151	55	0.10	6	790	6	1.72	<2	5	55
I025924		10	<1	0.58	20	0.97	174	15	0.15	6	830	5	0.73	2	6	76
I025925		10	1	0.59	20	0.86	189	3	0.13	5	800	3	0.51	3	6	68
I025926		10	<1	0.58	20	0.81	191	12	0.14	5	800	5	0.36	<2	5	64
I025927		10	<1	0.64	20	0.86	171	2	0.14	5	760	5	0.45	<2	4	57
I025928		10	<1	0.49	20	0.83	206	4	0.13	5	810	3	0.49	2	6	85
I025929		<10	<1	0.29	30	0.67	174	21	0.09	5	790	6	0.60	2	6	99
I025930		<10	2	0.01	<10	0.68	94	1	0.01	<1	80	2	0.03	2	<1	81
I025931		10	1	0.40	20	0.84	165	8	0.10	4	810	6	0.86	2	6	87
I025932		10	<1	0.56	20	0.91	169	10	0.12	5	830	7	0.93	2	6	72
I025933		10	<1	0.51	20	0.87	190	3	0.12	5	790	4	0.48	3	6	83
I025934		<10	1	0.36	10	0.03	52	637	0.02	4	830	26	0.36	<2	3	130
I025935		<10	<1	0.33	10	0.02	59	401	0.02	5	630	23	0.24	<2	3	93
I025936		<10	<1	0.30	10	0.02	43	99	0.02	3	530	20	0.18	<2	3	86
I025937		<10	<1	0.28	10	0.22	1535	475	0.02	13	580	38	1.74	<2	3	82
I025938		<10	1	0.28	10	0.17	948	48	0.01	6	700	22	0.89	<2	3	81
I025939		<10	<1	0.26	10	0.11	197	39	0.01	4	740	9	0.06	<2	2	72
I025940		10	<1	0.28	<10	0.56	760	239	0.06	20	710	76	2.17	2	2	56
I025941		<10	<1	0.28	10	0.02	152	33	0.01	4	650	8	0.16	2	2	79
I025942		<10	<1	0.27	10	0.04	187	27	0.01	2	810	19	0.06	<2	2	99
I025943		<10	<1	0.29	20	0.03	231	64	0.01	3	880	15	0.02	<2	3	87
I025944		<10	<1	0.27	20	0.12	246	44	0.01	12	900	13	0.09	2	3	91
I025945		<10	<1	0.27	20	0.03	245	24	0.01	9	710	9	0.03	2	2	67
I025946		<10	<1	0.27	20	0.06	192	73	0.01	9	710	6	0.26	<2	3	59
I025947		<10	<1	0.28	40	0.12	376	30	0.01	12	800	9	0.36	2	3	59
I025948		<10	<1	0.27	20	0.07	205	13	0.01	12	740	5	0.44	2	3	53
I025949		<10	<1	0.28	10	0.04	112	20	0.01	6	840	7	0.15	4	2	56
I025950		<10	3	<0.01	<10	0.39	79	<1	0.01	<1	60	<2	<0.01	3	<1	81
I025951		<10	<1	0.27	20	0.02	57	36	0.01	4	830	4	0.13	3	2	73

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I025912		<20	0.06	<10	<10	69	<10	39	
I025913		20	0.04	<10	<10	58	<10	36	
I025914		<20	0.16	<10	<10	76	<10	18	
I025915		<20	0.14	<10	<10	79	10	28	
I025916		20	0.07	<10	<10	78	<10	33	
I025917		20	0.06	<10	<10	70	<10	35	
I025918		<20	0.01	<10	<10	41	<10	36	
I025919		20	0.01	<10	<10	53	<10	46	
I025920		<20	0.12	<10	<10	57	30	76	1.275
I025921		<20	0.03	<10	<10	47	<10	51	
I025922		<20	0.09	<10	<10	72	<10	26	
I025923		20	0.06	<10	10	63	10	28	
I025924		<20	0.09	<10	<10	75	10	33	
I025925		20	0.12	<10	<10	70	<10	20	
I025926		20	0.14	<10	<10	66	10	18	
I025927		20	0.16	<10	<10	63	<10	18	
I025928		20	0.11	<10	<10	68	10	19	
I025929		20	0.04	<10	<10	52	<10	21	
I025930		<20	<0.01	<10	<10	1	<10	4	
I025931		<20	0.08	<10	<10	63	<10	18	
I025932		20	0.12	<10	<10	70	<10	24	
I025933		20	0.12	<10	<10	70	<10	19	
I025934		<20	<0.01	<10	<10	18	140	115	
I025935		<20	<0.01	<10	<10	18	100	100	
I025936		<20	<0.01	<10	<10	20	20	51	
I025937		<20	<0.01	<10	<10	27	30	179	
I025938		<20	<0.01	<10	<10	15	<10	105	
I025939		<20	<0.01	<10	<10	15	<10	55	
I025940		<20	0.04	<10	<10	32	<10	424	
I025941		<20	<0.01	<10	<10	6	<10	32	
I025942		<20	<0.01	<10	<10	8	<10	33	
I025943		<20	<0.01	<10	<10	12	<10	36	
I025944		<20	<0.01	<10	<10	20	<10	60	
I025945		<20	<0.01	<10	<10	14	<10	38	
I025946		<20	<0.01	<10	<10	16	40	58	
I025947		<20	<0.01	<10	<10	18	<10	48	
I025948		<20	<0.01	<10	<10	24	<10	45	
I025949		<20	<0.01	<10	<10	11	<10	27	
I025950		<20	<0.01	<10	<10	<1	<10	<2	
I025951		<20	<0.01	<10	<10	13	<10	27	

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I025952		7.02	0.122	0.5	0.36	28	<10	410	<0.5	2	0.21	0.5	14	12	468	1.43
I025953		7.76	0.020	<0.2	0.34	7	<10	450	<0.5	<2	1.07	<0.5	5	12	203	0.87
I025954		7.78	0.082	0.6	0.34	8	<10	430	<0.5	2	0.11	<0.5	10	5	920	1.11
I025955		8.60	0.122	0.4	0.33	7	<10	390	<0.5	<2	0.29	<0.5	8	4	424	1.05
I025956		7.58	0.037	<0.2	0.33	12	<10	430	<0.5	<2	0.22	0.5	8	3	113	0.88
I025957		7.44	<0.005	<0.2	0.34	7	<10	260	<0.5	<2	0.13	<0.5	5	3	41	0.65
I025958		7.96	0.023	<0.2	0.40	8	<10	610	<0.5	<2	0.96	0.5	2	7	70	1.44
I025959		5.46	0.018	<0.2	0.39	8	<10	650	<0.5	<2	1.25	0.6	3	8	235	1.63
I025960		0.08	4.19	0.8	0.25	372	10	110	<0.5	<2	10.1	0.6	5	21	34	1.82
I025961		6.30	<0.005	<0.2	0.50	7	<10	880	<0.5	<2	0.92	0.8	5	8	862	1.37
I025962		7.92	0.146	1.7	0.48	77	<10	20	<0.5	2	0.08	<0.5	191	8	495	9.77
I025963		8.26	0.632	3.2	0.31	95	<10	10	<0.5	5	0.06	<0.5	229	5	607	8.65
I025964		8.52	0.464	5.7	0.50	30	<10	110	<0.5	5	0.11	0.6	23	7	4270	2.29
I025965		8.10	2.39	14.1	0.35	241	<10	10	<0.5	19	0.06	0.8	121	6	7900	10.25
I025966		7.54	0.500	3.3	0.36	93	<10	10	<0.5	15	0.09	0.9	95	7	1585	6.69
I025967		6.54	0.212	1.8	0.34	16	<10	210	<0.5	<2	0.72	0.8	20	7	951	2.52
I025968		9.18	0.127	0.5	0.46	16	<10	300	<0.5	<2	0.82	0.5	10	6	461	2.32
I025969		9.42	0.078	0.6	0.45	36	<10	220	<0.5	2	0.77	2.2	12	6	483	2.67
I025970		0.46	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	3	0.09
I025971		7.96	0.234	0.9	0.45	47	<10	150	<0.5	2	0.72	3.9	15	7	630	3.13
I025972		7.88	0.327	0.3	0.45	37	<10	190	<0.5	<2	0.89	1.4	5	6	194	3.10
I025973		11.78	0.183	0.7	0.49	68	<10	230	<0.5	2	0.81	3.5	8	7	1510	2.61
I025974		8.14	0.407	1.6	0.47	72	<10	180	<0.5	4	1.08	2.8	6	7	676	3.56
I025975		5.24	0.096	1.7	0.48	47	<10	90	<0.5	3	1.01	1.7	2	8	688	2.85
I025976		5.00	0.090	4.5	0.47	41	<10	420	<0.5	11	0.93	2.4	4	8	743	2.95
I025977		5.40	0.156	2.2	0.42	46	<10	220	<0.5	10	1.04	2.3	2	7	710	3.15
I025978		5.66	0.090	2.5	0.58	31	<10	180	<0.5	4	0.93	2.6	4	9	361	3.02
I025979		5.40	0.101	0.9	0.42	39	<10	50	<0.5	4	0.94	1.1	1	7	436	2.99
I025980		0.08	0.324	2.7	1.69	28	10	60	<0.5	<2	0.82	2.2	10	29	2570	4.50
I025981		5.06	0.230	1.5	0.43	68	<10	250	<0.5	7	0.89	1.0	2	7	665	3.20
I025982		5.84	0.262	1.1	0.42	41	<10	330	<0.5	8	0.93	<0.5	1	7	595	2.70
I025983		5.48	0.123	1.5	0.42	37	<10	210	<0.5	8	1.00	0.6	1	6	777	2.96
I025984		5.38	0.034	0.4	0.45	31	<10	120	<0.5	2	0.99	0.6	2	7	225	3.07
I025985		5.28	0.188	1.4	0.46	33	<10	50	<0.5	35	0.97	<0.5	5	7	248	3.02
I025986		6.06	0.052	0.4	0.44	28	<10	40	<0.5	3	0.85	<0.5	2	6	168	2.61
I025987		4.94	0.021	0.6	0.49	23	<10	750	<0.5	<2	0.81	0.7	2	6	181	2.49
I025988		5.10	0.052	0.2	0.46	23	<10	340	<0.5	<2	0.91	0.8	3	6	120	2.60
I025989		5.78	0.099	0.4	0.49	30	<10	50	<0.5	2	1.02	1.1	3	6	243	2.72
I025990		0.44	<0.005	<0.2	0.03	<2	<10	30	<0.5	<2	>25.0	<0.5	<1	<1	1	0.09
I025991		5.82	0.182	1.3	0.49	42	<10	130	<0.5	13	0.95	1.7	5	6	290	2.57

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I025952		<10	<1	0.27	20	0.03	97	40	0.01	5	960	7	0.07	2	3	136
I025953		<10	<1	0.30	30	0.04	73	16	0.01	3	1100	3	0.02	<2	3	162
I025954		<10	<1	0.26	10	0.03	64	12	0.01	4	220	3	0.12	2	3	80
I025955		<10	<1	0.27	10	0.11	119	11	0.01	4	80	3	0.15	2	2	69
I025956		<10	<1	0.27	20	0.09	76	11	0.01	2	100	2	0.03	<2	2	71
I025957		<10	<1	0.28	20	0.04	53	24	0.01	1	240	3	0.01	<2	2	62
I025958		<10	<1	0.25	10	0.40	229	22	<0.01	2	540	5	0.08	<2	3	103
I025959		<10	1	0.26	10	0.53	255	88	<0.01	2	620	4	0.12	<2	3	128
I025960		<10	6	0.10	<10	4.82	337	9	<0.01	32	490	10	1.39	65	3	47
I025961		<10	1	0.24	<10	0.40	196	33	<0.01	3	560	7	0.04	<2	2	108
I025962		<10	1	0.42	10	0.07	57	26	0.01	23	350	12	9.21	2	2	90
I025963		<10	<1	0.34	10	0.02	24	47	<0.01	18	250	30	9.61	3	1	69
I025964		<10	1	0.29	10	0.02	29	80	<0.01	4	550	8	1.72	<2	2	89
I025965		<10	<1	0.30	10	0.02	31	181	<0.01	30	250	20	>10.0	3	2	48
I025966		<10	<1	0.45	10	0.04	54	50	0.01	12	460	20	6.03	<2	2	98
I025967		<10	<1	0.24	10	0.47	522	82	<0.01	3	560	4	0.98	2	4	78
I025968		<10	1	0.27	10	0.51	428	46	<0.01	2	590	3	0.67	2	4	80
I025969		<10	1	0.25	10	0.49	424	49	<0.01	3	580	80	0.91	<2	3	74
I025970		<10	3	0.01	<10	0.82	102	<1	0.01	<1	70	<2	<0.01	<2	<1	92
I025971		<10	1	0.25	10	0.46	399	102	<0.01	5	570	110	1.36	2	4	66
I025972		<10	1	0.26	10	0.60	544	70	<0.01	5	600	29	0.84	2	4	72
I025973		<10	1	0.24	10	0.34	352	67	<0.01	10	560	90	0.48	2	4	57
I025974		<10	<1	0.26	10	0.64	539	32	<0.01	12	560	132	1.16	3	5	107
I025975		<10	1	0.27	10	0.58	490	17	<0.01	6	580	120	0.48	2	4	106
I025976		<10	1	0.26	10	0.57	483	9	<0.01	8	570	80	0.56	<2	4	104
I025977		<10	1	0.25	10	0.61	534	6	<0.01	10	550	65	0.66	<2	5	106
I025978		<10	1	0.28	10	0.60	529	4	<0.01	6	600	61	0.46	<2	5	99
I025979		<10	1	0.25	10	0.56	550	3	<0.01	4	560	42	0.52	2	5	91
I025980		10	1	0.29	<10	0.56	762	244	0.05	22	720	74	2.17	6	2	57
I025981		<10	<1	0.27	10	0.52	514	6	<0.01	6	570	43	0.87	2	4	85
I025982		<10	1	0.25	10	0.50	483	7	<0.01	5	570	10	0.57	<2	4	96
I025983		<10	1	0.26	10	0.56	534	7	<0.01	8	560	10	0.50	2	5	98
I025984		<10	1	0.27	10	0.59	534	9	<0.01	3	610	8	0.47	<2	6	102
I025985		<10	1	0.28	10	0.58	529	9	<0.01	6	670	23	0.63	3	5	95
I025986		<10	1	0.25	10	0.51	474	6	<0.01	4	590	4	0.45	<2	4	81
I025987		<10	1	0.27	10	0.49	468	5	<0.01	3	590	6	0.35	<2	4	88
I025988		<10	<1	0.26	10	0.53	473	5	<0.01	4	620	6	0.39	<2	4	88
I025989		<10	1	0.28	10	0.57	477	4	<0.01	5	670	9	0.54	<2	5	96
I025990		<10	2	0.02	<10	0.95	101	<1	<0.01	<1	60	<2	<0.01	<2	<1	89
I025991		<10	<1	0.28	10	0.52	428	4	<0.01	6	670	16	0.70	2	5	86

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I025952		<20	<0.01	<10	<10	13	10	38	
I025953		<20	<0.01	<10	<10	11	<10	26	
I025954		<20	<0.01	<10	<10	9	<10	28	
I025955		<20	<0.01	<10	<10	8	<10	27	
I025956		<20	<0.01	<10	<10	7	<10	20	
I025957		<20	<0.01	<10	<10	5	<10	22	
I025958		<20	<0.01	<10	<10	12	<10	33	
I025959		<20	<0.01	<10	10	13	<10	33	
I025960		<20	<0.01	<10	<10	39	40	66	
I025961		<20	<0.01	<10	30	10	<10	39	
I025962		<20	<0.01	<10	<10	10	10	46	
I025963		<20	<0.01	<10	<10	4	180	12	
I025964		<20	<0.01	<10	30	6	10	27	
I025965		<20	<0.01	<10	10	6	20	34	
I025966		<20	<0.01	<10	<10	10	10	47	
I025967		<20	<0.01	<10	<10	18	<10	131	
I025968		<20	<0.01	<10	<10	13	<10	46	
I025969		<20	<0.01	<10	<10	14	<10	96	
I025970		<20	<0.01	<10	10	<1	<10	2	
I025971		<20	<0.01	<10	<10	17	10	195	
I025972		<20	<0.01	<10	<10	20	<10	78	
I025973		<20	<0.01	<10	10	19	<10	267	
I025974		<20	<0.01	<10	<10	21	<10	167	
I025975		<20	<0.01	<10	<10	21	<10	106	
I025976		<20	<0.01	<10	<10	19	10	102	
I025977		<20	<0.01	<10	<10	19	<10	85	
I025978		<20	<0.01	<10	<10	21	10	95	
I025979		<20	<0.01	<10	<10	18	<10	71	
I025980		<20	0.04	<10	<10	32	<10	431	
I025981		<20	<0.01	<10	<10	16	10	62	
I025982		<20	<0.01	<10	<10	15	<10	41	
I025983		<20	<0.01	<10	<10	17	<10	47	
I025984		<20	<0.01	<10	<10	18	<10	37	
I025985		<20	<0.01	<10	<10	17	<10	36	
I025986		<20	<0.01	<10	<10	14	<10	28	
I025987		<20	<0.01	<10	<10	13	10	28	
I025988		<20	<0.01	<10	<10	14	<10	35	
I025989		<20	<0.01	<10	<10	15	<10	45	
I025990		<20	<0.01	<10	10	<1	<10	<2	
I025991		<20	<0.01	<10	<10	14	10	41	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I025992		5.46	0.190	0.9	0.52	33	<10	300	0.5	4	0.87	1.2	5	6	310	2.57
I025993		5.64	0.115	0.8	0.53	31	<10	300	0.5	2	0.88	1.5	3	6	354	2.49
I025994		5.62	0.098	0.3	0.46	24	<10	70	0.5	<2	1.06	<0.5	4	6	40	2.55
I025995		5.28	0.111	1.0	0.48	21	<10	90	0.6	2	1.10	2.1	5	6	254	2.26
I025996		5.30	0.038	1.0	0.50	10	<10	60	0.6	2	1.19	1.0	7	6	170	2.11
I025997		5.64	0.040	0.7	0.49	18	<10	160	0.6	3	1.17	1.0	7	6	108	2.22
I025998		5.58	0.026	0.5	0.49	12	<10	280	0.6	<2	1.28	0.7	6	5	119	2.22
I025999		5.64	0.030	3.0	0.49	19	<10	190	0.6	19	1.20	1.1	7	6	201	2.16
I026000		Not Recvd														

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I025992		<10	1	0.27	10	0.53	426	8	<0.01	6	650	20	0.58	2	5	101
I025993		<10	<1	0.28	10	0.46	389	8	<0.01	4	600	16	0.63	3	4	84
I025994		<10	1	0.26	10	0.55	408	6	<0.01	5	610	26	0.75	2	4	109
I025995		<10	<1	0.26	10	0.57	358	4	<0.01	6	610	80	0.51	2	4	132
I025996		<10	1	0.26	10	0.62	349	3	<0.01	5	650	85	0.29	<2	4	152
I025997		<10	1	0.27	10	0.61	331	3	<0.01	4	640	52	0.46	2	4	176
I025998		<10	1	0.26	10	0.68	343	4	<0.01	5	600	31	0.36	<2	5	227
I025999		<10	<1	0.26	10	0.63	351	6	<0.01	5	640	118	0.30	<2	4	190
I026000																

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I025992		<20	<0.01	<10	<10	14	<10	59	
I025993		<20	<0.01	<10	<10	14	<10	62	
I025994		<20	<0.01	<10	<10	13	<10	39	
I025995		<20	<0.01	<10	<10	13	<10	140	
I025996		<20	<0.01	<10	<10	13	<10	69	
I025997		<20	<0.01	<10	<10	14	<10	71	
I025998		<20	<0.01	<10	<10	12	<10	56	
I025999		<20	<0.01	<10	<10	10	<10	80	
I026000									

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17144068

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au- AA23	CRU- 31	CRU- QC	Cu- OG46
LOG- 21	LOG- 23	ME- ICP41	ME- OG46
PUL- 35	PUL- QC	SPL- 21	WEI- 21

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 27- AUG- 2017
This copy reported on
12- SEP- 2017
Account: NOFREG

CERTIFICATE WH17147702

Project: FREEGOLD MOUNTAIN

P.O. No.: 1005139- NOFREG- R1

This report is for 242 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
EXTRA- 01	Extra Sample received in Shipment
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 27- AUG- 2017
Account: NOFREG

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K917225		7.00	<0.005	0.2	1.31	4	<10	150	<0.5	<2	0.91	<0.5	9	11	130	2.32
K917226		6.54	<0.005	0.2	1.51	3	<10	150	<0.5	<2	0.90	<0.5	8	10	117	2.43
K917227		6.88	<0.005	0.2	1.18	6	<10	80	0.5	<2	1.34	<0.5	7	8	163	2.29
K917228		7.00	<0.005	0.2	1.42	5	<10	110	<0.5	<2	1.29	<0.5	8	10	158	2.46
K917229		6.64	0.006	0.2	1.06	3	<10	100	<0.5	<2	1.20	<0.5	6	9	167	2.00
K917230		0.42	<0.005	0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	2	0.07
K917231		7.12	0.012	0.2	1.45	5	<10	170	0.5	<2	0.97	<0.5	8	11	172	2.53
K917232		7.12	0.010	0.4	1.26	7	<10	80	<0.5	<2	0.81	<0.5	7	10	135	2.37
K917233		6.92	0.014	<0.2	1.07	4	<10	60	<0.5	<2	1.07	<0.5	7	9	153	2.17
K917234		6.72	0.018	<0.2	0.94	12	<10	60	0.5	<2	1.17	<0.5	7	9	161	2.10
K917235		7.06	0.011	0.2	0.85	15	<10	50	0.6	2	1.57	<0.5	6	8	181	1.84
K917236		6.94	0.009	<0.2	0.81	9	<10	70	0.6	<2	1.53	<0.5	6	8	108	1.83
K917237		6.92	0.005	0.2	0.85	19	<10	70	0.6	<2	1.47	<0.5	6	8	106	1.74
K917238		5.60	0.007	<0.2	0.98	16	<10	100	0.5	<2	1.11	<0.5	6	7	82	1.82
K917239		6.24	0.202	1.5	0.61	162	<10	70	0.6	156	1.83	<0.5	8	6	742	2.01
K917240		0.08	0.371	2.8	1.64	28	10	60	<0.5	<2	0.81	2.1	11	28	2490	4.33
K917241		5.08	0.007	0.2	0.77	90	<10	80	0.7	<2	1.34	<0.5	7	7	147	1.88
K917242		6.70	0.005	<0.2	0.93	18	<10	100	0.6	<2	1.06	<0.5	6	7	93	1.99
K917243		6.84	0.012	0.2	0.76	9	<10	80	0.6	<2	1.30	<0.5	7	8	159	2.13
K917244		7.02	0.023	0.7	0.80	10	<10	90	<0.5	20	1.39	<0.5	7	8	458	2.28
K917245		6.98	0.007	0.2	0.52	39	<10	50	0.8	<2	2.01	<0.5	8	5	123	2.07
K917246		6.82	0.013	<0.2	0.59	22	<10	160	0.6	<2	1.47	<0.5	7	6	119	2.14
K917247		6.82	0.007	0.2	0.82	28	<10	90	<0.5	<2	1.08	<0.5	7	9	114	2.25
K917248		6.56	0.007	0.2	0.77	17	<10	290	0.5	<2	1.28	<0.5	6	7	103	1.89
K917249		6.80	0.010	0.2	1.10	3	<10	90	<0.5	<2	1.02	<0.5	7	9	147	2.07
K917250		0.50	<0.005	<0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	1	1	3	0.08
K917251		7.06	<0.005	<0.2	0.77	44	<10	80	0.8	<2	2.34	<0.5	6	7	68	1.91
K917252		5.94	<0.005	<0.2	0.51	27	<10	210	1.2	<2	2.58	<0.5	5	5	53	1.63
K917253		6.68	0.007	0.2	0.52	31	<10	100	1.1	<2	1.98	<0.5	5	6	130	1.36
K917254		6.54	0.005	<0.2	0.37	44	<10	450	0.9	<2	3.21	<0.5	5	6	61	1.94
K917255		6.48	0.012	<0.2	0.41	108	<10	270	1.1	<2	2.73	<0.5	6	6	64	1.52
K917256		7.36	0.009	<0.2	0.38	68	<10	130	1.0	<2	2.82	<0.5	6	6	47	1.74
K917257		6.58	0.006	<0.2	0.47	89	<10	80	0.9	<2	3.01	<0.5	4	4	48	1.78
K917258		5.64	<0.005	0.2	0.53	161	<10	330	0.7	<2	1.65	<0.5	6	6	104	1.65
K917259		6.78	<0.005	<0.2	0.55	18	<10	140	0.7	<2	1.95	<0.5	6	5	87	1.44
K917260		0.08	0.336	2.7	1.65	27	10	60	<0.5	<2	0.80	2.1	11	28	2460	4.31
K917261		6.52	<0.005	<0.2	0.48	22	<10	100	0.7	<2	1.49	<0.5	6	9	109	1.39
K917262		6.26	<0.005	<0.2	0.58	62	<10	40	0.7	<2	1.14	<0.5	7	6	123	1.43
K917263		6.52	<0.005	0.2	0.77	39	<10	60	0.6	<2	1.13	<0.5	6	8	98	1.78
K917264		6.60	<0.005	<0.2	0.56	47	<10	160	0.8	<2	1.47	<0.5	6	6	88	1.81

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917225		10	<1	0.46	20	0.75	127	5	0.10	4	660	4	0.58	2	5	53
K917226		10	<1	0.45	20	0.71	156	2	0.14	5	620	5	0.50	<2	5	64
K917227		10	<1	0.28	20	0.53	125	3	0.06	4	560	4	0.64	<2	3	59
K917228		10	<1	0.31	20	0.71	133	1	0.13	5	650	4	0.64	2	4	69
K917229		<10	1	0.28	20	0.47	103	1	0.08	4	480	5	0.65	<2	3	59
K917230		<10	<1	<0.01	<10	0.95	100	<1	<0.01	1	70	2	0.01	<2	<1	83
K917231		10	<1	0.38	20	0.70	109	1	0.12	5	650	5	0.86	2	5	76
K917232		10	<1	0.37	20	0.73	122	2	0.09	4	550	6	0.55	2	5	38
K917233		10	<1	0.38	20	0.60	120	24	0.07	4	540	6	0.55	<2	4	44
K917234		<10	<1	0.27	20	0.50	109	2	0.06	4	490	6	0.65	2	3	44
K917235		<10	<1	0.25	20	0.42	104	2	0.05	4	490	6	0.52	2	3	66
K917236		<10	<1	0.27	20	0.41	105	2	0.06	4	530	5	0.53	<2	3	66
K917237		<10	<1	0.27	20	0.43	116	3	0.08	3	480	5	0.44	3	3	73
K917238		<10	<1	0.30	20	0.47	115	1	0.09	3	490	6	0.40	2	3	61
K917239		<10	<1	0.23	20	0.59	139	3	0.03	4	480	14	0.59	5	3	85
K917240		<10	<1	0.28	<10	0.54	739	256	0.05	21	710	73	2.12	2	2	53
K917241		<10	<1	0.23	20	0.45	122	2	0.05	3	500	5	0.41	2	3	91
K917242		<10	<1	0.32	20	0.45	126	1	0.11	4	550	6	0.47	3	4	84
K917243		<10	<1	0.29	20	0.50	149	1	0.08	4	570	6	0.45	2	4	88
K917244		<10	<1	0.32	20	0.54	156	2	0.07	4	540	8	0.67	2	3	72
K917245		<10	<1	0.21	20	0.52	184	1	0.03	3	540	9	0.39	3	3	129
K917246		<10	<1	0.22	20	0.47	159	1	0.05	3	550	7	0.53	<2	3	101
K917247		<10	<1	0.32	20	0.52	179	2	0.07	4	580	6	0.48	<2	4	69
K917248		<10	<1	0.22	20	0.46	162	2	0.04	3	460	9	0.46	2	3	80
K917249		<10	<1	0.35	20	0.55	143	9	0.12	4	510	4	0.52	2	4	62
K917250		<10	<1	<0.01	<10	0.59	79	<1	<0.01	<1	70	<2	<0.01	<2	<1	89
K917251		<10	1	0.26	20	0.70	198	1	0.05	3	540	7	0.20	2	4	124
K917252		<10	<1	0.22	20	0.70	200	4	0.01	3	620	7	0.20	2	5	139
K917253		<10	<1	0.22	20	0.57	191	174	0.01	3	520	7	0.19	<2	4	107
K917254		<10	<1	0.21	10	1.04	365	7	0.01	3	430	10	0.26	3	3	102
K917255		<10	<1	0.23	10	0.91	298	2	0.01	4	470	13	0.27	3	4	112
K917256		<10	<1	0.21	10	0.85	335	2	0.01	3	430	10	0.26	2	4	96
K917257		<10	<1	0.17	10	1.15	210	6	0.01	3	360	10	0.21	3	2	113
K917258		<10	<1	0.16	20	0.51	159	1	0.01	4	530	12	0.49	3	3	102
K917259		<10	<1	0.16	10	0.60	155	4	<0.01	3	510	9	0.34	2	3	93
K917260		<10	<1	0.28	<10	0.53	735	253	0.05	21	710	71	2.09	<2	2	53
K917261		<10	<1	0.21	20	0.42	134	3	<0.01	4	550	10	0.43	<2	2	90
K917262		<10	<1	0.19	20	0.33	99	2	0.02	4	580	8	0.42	4	3	91
K917263		<10	<1	0.21	20	0.47	122	2	0.04	4	600	5	0.40	<2	4	91
K917264		<10	<1	0.17	20	0.43	170	2	0.03	4	550	5	0.36	3	4	112

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917225		20	0.11	<10	<10	49	<10	19
K917226		20	0.14	<10	10	50	10	17
K917227		20	0.01	<10	<10	34	10	17
K917228		20	0.08	<10	<10	44	<10	15
K917229		20	0.02	<10	<10	34	20	14
K917230		<20	<0.01	<10	<10	1	<10	<2
K917231		20	0.09	<10	<10	49	<10	16
K917232		20	0.12	<10	10	48	10	22
K917233		20	0.04	<10	10	37	20	19
K917234		20	0.01	<10	10	29	<10	18
K917235		20	0.01	<10	10	23	<10	17
K917236		20	<0.01	<10	10	21	10	16
K917237		20	0.01	<10	10	23	10	16
K917238		20	0.01	<10	10	29	<10	15
K917239		20	<0.01	<10	10	13	80	29
K917240		<20	0.04	<10	<10	30	<10	432
K917241		20	<0.01	<10	10	17	10	16
K917242		20	0.02	<10	10	23	10	17
K917243		20	0.01	<10	10	21	<10	19
K917244		20	0.02	<10	10	25	10	29
K917245		20	<0.01	<10	<10	10	<10	19
K917246		20	<0.01	<10	<10	17	<10	19
K917247		20	0.04	<10	<10	32	<10	18
K917248		20	0.01	<10	10	23	10	17
K917249		<20	0.05	<10	<10	38	10	15
K917250		<20	<0.01	<10	<10	1	<10	3
K917251		20	0.01	<10	<10	23	<10	17
K917252		20	<0.01	<10	<10	13	<10	14
K917253		20	<0.01	<10	10	11	<10	16
K917254		20	<0.01	<10	<10	13	<10	10
K917255		20	<0.01	<10	10	12	<10	21
K917256		20	<0.01	<10	<10	12	<10	15
K917257		<20	<0.01	<10	<10	6	<10	11
K917258		20	<0.01	<10	<10	9	<10	21
K917259		20	<0.01	<10	<10	8	<10	16
K917260		<20	0.04	<10	<10	30	<10	422
K917261		20	<0.01	<10	<10	5	<10	20
K917262		20	<0.01	<10	10	10	10	17
K917263		20	0.01	<10	10	21	10	18
K917264		20	<0.01	<10	<10	13	<10	15

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K917265		7.10	<0.005	<0.2	0.97	24	<10	120	<0.5	<2	1.05	<0.5	5	8	40	1.77
K917266		6.54	<0.005	<0.2	1.18	19	<10	90	<0.5	<2	1.09	<0.5	6	10	75	1.98
K917267		6.78	<0.005	<0.2	1.16	9	<10	70	<0.5	<2	1.16	<0.5	7	10	55	2.05
K917268		3.60	<0.005	0.2	1.38	5	<10	130	<0.5	<2	0.86	<0.5	4	10	41	1.68
K917269		4.16	<0.005	<0.2	1.48	3	<10	140	<0.5	<2	1.02	<0.5	6	10	26	1.81
K917270		0.64	<0.005	0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	1	1	2	0.06
K917271		6.68	0.077	0.3	1.05	3	<10	120	<0.5	<2	0.25	<0.5	7	10	267	2.23
K917272		8.04	0.114	0.4	0.96	3	<10	100	<0.5	<2	0.26	<0.5	8	10	263	2.34
K917273		9.80	0.748	0.2	0.94	2	<10	140	<0.5	6	0.21	<0.5	4	10	193	2.09
K917274		7.70	0.059	<0.2	0.98	4	<10	130	<0.5	<2	0.26	<0.5	5	10	192	2.21
K917275		8.22	0.055	0.2	1.00	9	<10	160	<0.5	<2	0.28	<0.5	6	9	164	2.10
K917276		9.02	0.031	0.2	0.94	9	<10	150	<0.5	<2	0.23	<0.5	6	9	108	2.14
K917277		9.02	0.932	0.4	1.01	5	<10	110	<0.5	45	0.23	<0.5	8	9	242	2.20
K917278		5.62	0.038	0.3	0.67	31	<10	40	<0.5	5	0.21	<0.5	7	5	207	1.76
K917279		8.28	0.168	0.3	0.72	85	<10	40	0.6	<2	0.20	<0.5	9	5	219	2.13
K917280		0.08	0.360	2.7	1.75	27	10	60	<0.5	<2	0.83	2.2	11	29	2550	4.49
K917281		8.86	0.077	0.3	1.08	14	<10	60	0.5	<2	0.27	<0.5	10	9	219	2.57
K917282		8.72	0.120	0.2	1.25	5	<10	140	<0.5	<2	0.35	<0.5	8	10	173	2.51
K917283		10.08	0.021	<0.2	1.13	5	<10	170	<0.5	<2	0.36	<0.5	7	9	93	2.31
K917284		4.90	0.044	<0.2	1.11	<2	<10	110	<0.5	<2	0.32	<0.5	5	11	158	2.47
K917285		5.16	0.120	<0.2	1.07	<2	<10	230	<0.5	<2	0.42	<0.5	7	11	103	2.22
K917286		10.88	0.035	0.2	1.05	2	<10	160	<0.5	2	0.35	<0.5	8	9	164	2.25
K917287		10.84	0.029	0.2	1.05	<2	<10	170	<0.5	<2	0.48	<0.5	6	10	108	2.11
K917288		8.82	0.031	0.2	1.04	<2	<10	200	<0.5	<2	0.39	<0.5	7	10	124	2.18
K917289		10.44	0.104	0.3	1.08	5	<10	200	<0.5	3	0.44	<0.5	7	11	166	2.19
I026000		0.06	0.359	2.7	1.77	27	10	60	<0.5	<2	0.85	2.2	11	30	2580	4.56
I026001		4.28	0.116	3.8	0.40	59	<10	180	0.6	14	1.16	2.1	12	5	632	2.47
I026002		4.30	0.092	1.6	0.40	34	<10	280	0.6	5	1.08	0.9	9	5	550	2.10
I026003		4.20	0.052	5.5	0.43	27	<10	200	0.6	2	1.12	0.8	10	4	284	2.40
I026004		4.10	0.057	0.9	0.37	41	<10	270	0.5	2	1.13	1.2	7	4	211	2.44
I026005		4.32	0.025	0.4	0.40	31	<10	290	0.6	<2	1.02	<0.5	6	5	111	2.51
I026006		4.18	0.025	0.7	0.38	28	<10	340	0.6	<2	1.03	0.8	5	5	104	2.38
I026007		4.08	0.046	1.0	0.43	23	<10	340	0.6	<2	1.07	1.1	6	5	141	2.35
I026008		4.10	0.117	0.6	0.42	34	<10	150	0.6	<2	0.91	<0.5	9	4	147	2.32
I026009		4.00	0.061	0.9	0.45	31	<10	310	0.6	3	0.93	0.9	8	5	253	2.22
I026010		0.28	<0.005	0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.07
I026011		4.30	0.162	0.3	0.43	33	<10	240	0.6	2	1.03	<0.5	6	5	296	2.20
I026012		4.52	0.278	1.9	0.44	11	<10	340	0.6	4	0.94	0.9	2	5	982	1.99
I026013		4.64	0.222	1.5	0.41	27	<10	400	0.6	2	0.82	1.0	4	4	669	2.10
I026014		4.58	0.238	2.1	0.38	37	<10	370	0.6	6	0.87	0.8	5	5	616	2.17

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K917265		<10	<1	0.32	20	0.51	190	1	0.08	3	540	5	0.16	2	4	76
K917266		10	<1	0.36	20	0.61	164	4	0.08	3	570	5	0.28	<2	4	71
K917267		10	<1	0.35	20	0.60	187	43	0.08	4	560	5	0.22	<2	4	64
K917268		10	<1	0.46	20	0.64	155	1	0.13	3	560	5	0.11	<2	4	66
K917269		10	<1	0.44	20	0.64	199	1	0.13	3	570	4	0.11	<2	4	78
K917270		<10	1	0.01	<10	1.02	92	<1	<0.01	<1	70	2	<0.01	2	<1	94
K917271		<10	<1	0.29	30	0.43	103	7	0.05	4	600	4	0.05	<2	5	26
K917272		<10	<1	0.34	20	0.42	92	2	0.06	4	620	4	0.11	<2	5	34
K917273		10	<1	0.39	20	0.43	101	3	0.06	3	550	4	0.09	<2	4	37
K917274		<10	<1	0.33	20	0.45	117	4	0.06	4	570	3	0.06	<2	5	30
K917275		<10	<1	0.34	20	0.46	160	4	0.06	5	600	4	0.02	2	5	22
K917276		<10	<1	0.28	30	0.43	155	5	0.05	6	570	4	0.05	2	4	25
K917277		<10	<1	0.26	20	0.48	103	4	0.04	5	610	5	0.05	<2	4	15
K917278		<10	<1	0.18	20	0.16	149	5	0.02	4	620	5	<0.01	3	3	10
K917279		<10	<1	0.19	30	0.17	174	8	0.02	5	570	4	0.01	9	3	15
K917280		<10	<1	0.30	<10	0.56	767	254	0.05	22	730	76	2.21	<2	2	56
K917281		<10	<1	0.23	30	0.45	153	8	0.03	6	700	4	0.01	2	4	13
K917282		10	<1	0.39	20	0.68	164	5	0.05	5	700	3	0.01	<2	5	17
K917283		10	<1	0.33	20	0.61	225	5	0.06	4	660	4	0.07	<2	4	18
K917284		10	<1	0.28	20	0.60	131	12	0.05	4	640	3	0.23	<2	5	15
K917285		<10	1	0.48	20	0.68	176	1	0.08	5	640	4	0.38	<2	4	20
K917286		10	<1	0.35	20	0.63	138	1	0.06	4	580	4	0.52	<2	4	15
K917287		<10	<1	0.42	20	0.64	168	1	0.07	4	600	4	0.36	<2	4	19
K917288		10	<1	0.44	20	0.64	171	2	0.07	4	640	3	0.29	<2	4	17
K917289		<10	<1	0.46	20	0.65	181	2	0.07	4	650	4	0.27	<2	4	18
I026000		<10	<1	0.30	<10	0.57	779	252	0.05	22	750	76	2.22	2	2	58
I026001		<10	<1	0.22	10	0.60	335	6	<0.01	8	690	170	0.84	<2	4	154
I026002		<10	<1	0.21	10	0.56	306	5	<0.01	6	680	61	0.56	<2	4	148
I026003		<10	<1	0.22	10	0.65	319	4	<0.01	8	720	51	0.60	<2	5	153
I026004		<10	<1	0.21	10	0.61	335	6	<0.01	6	690	58	0.77	2	4	163
I026005		<10	<1	0.21	10	0.62	345	3	<0.01	5	680	26	0.69	<2	5	165
I026006		<10	<1	0.21	10	0.59	340	3	<0.01	5	630	52	0.67	<2	4	185
I026007		<10	<1	0.23	10	0.63	347	3	<0.01	5	690	71	0.56	<2	5	175
I026008		<10	<1	0.23	10	0.54	297	4	<0.01	6	680	32	0.83	<2	4	249
I026009		<10	<1	0.24	10	0.54	310	5	<0.01	6	690	53	0.65	2	4	151
I026010		<10	<1	0.01	<10	0.45	86	<1	<0.01	1	70	3	0.01	<2	<1	90
I026011		<10	<1	0.23	10	0.55	278	9	<0.01	6	700	10	0.82	<2	4	148
I026012		<10	<1	0.23	10	0.53	293	9	<0.01	5	610	68	0.37	<2	4	146
I026013		<10	<1	0.22	10	0.52	291	3	<0.01	5	670	39	0.43	<2	4	137
I026014		<10	<1	0.21	10	0.54	292	1	<0.01	5	630	64	0.51	<2	5	302

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917265		20	0.05	<10	10	32	<10	14
K917266		20	0.05	<10	<10	38	10	17
K917267		20	0.06	<10	<10	41	10	17
K917268		20	0.11	<10	10	42	<10	17
K917269		<20	0.10	<10	10	39	<10	13
K917270		<20	<0.01	<10	<10	<1	<10	2
K917271		20	0.09	<10	10	47	60	13
K917272		20	0.12	<10	10	50	70	12
K917273		20	0.13	<10	10	47	40	12
K917274		20	0.12	<10	10	48	30	12
K917275		20	0.12	<10	<10	48	10	13
K917276		30	0.06	<10	<10	44	<10	12
K917277		20	0.04	<10	10	43	<10	14
K917278		30	<0.01	<10	<10	19	<10	17
K917279		20	<0.01	<10	<10	17	<10	19
K917280		<20	0.05	<10	<10	32	<10	440
K917281		20	0.02	<10	<10	40	<10	16
K917282		20	0.13	<10	10	57	10	15
K917283		20	0.13	<10	<10	53	60	16
K917284		<20	0.13	<10	<10	52	30	14
K917285		20	0.15	<10	10	51	10	15
K917286		20	0.12	<10	10	46	<10	14
K917287		30	0.13	<10	10	48	10	14
K917288		20	0.14	<10	10	52	<10	16
K917289		20	0.15	<10	<10	52	10	18
I026000		<20	0.05	<10	<10	32	<10	445
I026001		<20	<0.01	<10	<10	10	<10	137
I026002		<20	<0.01	<10	<10	10	<10	63
I026003		<20	<0.01	<10	<10	12	<10	67
I026004		<20	<0.01	<10	<10	11	<10	83
I026005		<20	<0.01	<10	<10	12	<10	38
I026006		<20	<0.01	<10	<10	11	<10	63
I026007		<20	<0.01	<10	<10	12	<10	82
I026008		<20	<0.01	<10	<10	10	<10	40
I026009		<20	<0.01	<10	<10	10	<10	73
I026010		<20	<0.01	<10	<10	<1	<10	2
I026011		<20	<0.01	<10	<10	9	<10	23
I026012		<20	<0.01	<10	<10	9	<10	69
I026013		<20	<0.01	<10	<10	10	<10	69
I026014		<20	<0.01	<10	<10	10	<10	64

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026015		4.16	0.205	1.4	0.37	15	<10	250	0.5	<2	0.84	0.9	5	5	602	1.89
I026016		4.58	0.621	6.0	0.36	25	<10	150	0.5	6	0.91	2.3	5	5	2850	2.19
I026017		4.36	0.113	1.7	0.37	7	<10	530	0.5	6	0.86	0.5	5	5	329	1.83
I026018		4.40	0.154	1.2	0.39	25	<10	330	0.6	2	1.07	<0.5	13	5	193	2.28
I026019		4.60	0.135	0.9	0.37	13	<10	80	0.6	<2	0.98	0.9	8	5	227	1.91
I026020		0.06	0.328	2.6	1.69	28	10	60	<0.5	<2	0.83	2.2	11	29	2500	4.46
I026021		4.46	0.060	1.1	0.38	20	<10	480	0.6	2	1.04	1.3	6	5	272	2.18
I026022		4.48	0.068	0.6	0.39	18	<10	500	0.6	<2	0.97	0.5	4	5	121	2.02
I026023		4.24	0.064	0.9	0.42	32	<10	280	0.6	3	0.98	0.7	4	5	156	2.25
I026024		4.50	0.114	0.6	0.39	26	<10	320	0.6	<2	0.93	<0.5	10	5	113	2.18
I026025		4.32	0.225	0.4	0.40	42	<10	230	0.6	<2	1.06	<0.5	8	5	87	2.37
I026026		4.46	0.134	0.7	0.41	25	<10	370	0.6	<2	1.11	0.6	6	5	432	2.13
I026027		4.18	0.083	0.6	0.38	24	<10	310	0.6	<2	1.03	0.7	7	5	253	2.05
I026028		4.24	0.042	0.6	0.39	19	<10	210	0.6	<2	1.09	0.8	6	5	230	2.16
I026029		4.18	0.078	0.9	0.41	24	<10	160	0.6	<2	1.09	0.8	5	5	352	2.29
I026030		0.52	<0.005	0.3	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.09
I026031		4.18	0.105	1.4	0.42	18	<10	150	0.6	<2	1.08	1.1	4	5	378	2.21
I026032		4.38	0.072	1.6	0.41	25	<10	330	0.6	<2	1.00	1.6	7	5	373	2.28
I026033		4.60	0.106	2.0	0.41	22	<10	250	0.6	5	1.13	1.6	6	6	414	2.09
I026034		4.04	0.392	1.4	0.44	27	<10	330	0.6	2	1.49	0.9	6	6	526	2.09
I026035		4.28	0.150	1.9	0.43	28	<10	360	0.6	4	1.09	1.3	6	6	337	2.27
I026036		4.26	0.120	1.5	0.44	34	<10	200	0.6	4	1.08	1.2	16	6	232	2.72
I026037		4.10	0.071	1.2	0.41	27	<10	260	0.6	4	1.27	1.1	17	6	244	2.66
I026038		4.32	0.016	0.8	0.40	13	<10	380	0.6	5	1.19	<0.5	11	4	93	2.02
I026039		4.22	0.049	0.8	0.41	24	<10	270	0.7	3	1.30	<0.5	14	5	97	2.23
I026040		0.08	0.317	2.6	1.73	27	10	60	<0.5	<2	0.86	2.1	11	29	2560	4.49
I026041		4.24	0.041	1.0	0.38	18	<10	310	0.7	5	1.38	0.7	18	5	97	2.29
I026042		4.14	0.020	0.6	0.41	29	<10	280	0.7	6	1.43	<0.5	18	4	31	2.35
I026043		4.54	0.012	0.8	0.42	23	<10	260	0.7	6	1.40	<0.5	5	5	61	2.02
I026044		4.24	0.011	0.6	0.41	27	<10	260	0.7	5	1.26	<0.5	13	5	94	2.25
I026045		4.30	0.033	0.5	0.42	35	<10	160	0.7	5	1.23	<0.5	24	5	101	2.52
I026046		3.88	0.025	0.2	0.43	7	<10	510	0.8	2	1.22	<0.5	8	4	63	1.83
I026047		4.58	0.072	<0.2	0.40	2	<10	480	0.8	<2	1.24	<0.5	9	4	4	1.74
I026048		4.16	<0.005	<0.2	0.43	3	<10	150	0.8	<2	1.33	<0.5	4	4	3	1.81
I026049		4.02	0.049	<0.2	0.41	2	<10	170	0.8	<2	1.21	<0.5	5	4	3	1.75
I026050		0.52	<0.005	0.3	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.10
I026051		4.36	0.212	0.3	0.40	9	<10	860	0.8	<2	1.29	<0.5	5	4	23	1.98
I026052		4.86	0.440	0.2	0.38	27	<10	130	0.7	<2	1.24	0.6	7	5	67	2.46
I026053		5.62	0.150	0.2	0.41	28	<10	260	0.7	<2	1.29	<0.5	4	4	64	2.51
I026054		4.20	0.039	0.4	0.41	29	<10	200	0.7	<2	1.30	<0.5	3	5	82	2.61

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I026015		<10	1	0.21	10	0.51	286	1	<0.01	5	570	46	0.30	<2	4	134
I026016		<10	<1	0.20	10	0.54	309	81	<0.01	5	600	39	0.54	2	4	179
I026017		<10	<1	0.21	10	0.51	286	1	<0.01	5	590	22	0.22	2	4	179
I026018		<10	<1	0.22	10	0.60	325	1	<0.01	6	630	36	0.57	2	5	149
I026019		<10	<1	0.21	10	0.55	303	1	<0.01	4	650	35	0.27	<2	4	153
I026020		<10	<1	0.28	<10	0.55	752	243	0.05	21	730	76	2.19	<2	2	55
I026021		<10	<1	0.21	10	0.60	325	1	<0.01	6	670	45	0.43	<2	5	155
I026022		<10	<1	0.22	10	0.58	315	1	<0.01	4	640	24	0.32	<2	4	220
I026023		<10	<1	0.23	10	0.59	325	1	<0.01	7	680	37	0.54	<2	4	213
I026024		<10	<1	0.22	10	0.54	301	2	<0.01	5	630	19	0.57	<2	5	220
I026025		<10	<1	0.22	10	0.58	309	3	<0.01	6	590	10	0.82	<2	4	180
I026026		<10	<1	0.22	10	0.60	317	9	<0.01	4	630	11	0.44	2	4	196
I026027		<10	<1	0.21	10	0.56	301	3	<0.01	4	620	14	0.40	<2	4	136
I026028		<10	<1	0.22	10	0.60	332	4	<0.01	6	650	15	0.38	<2	4	164
I026029		<10	<1	0.23	10	0.61	331	4	<0.01	5	650	25	0.45	<2	4	182
I026030		<10	<1	0.01	<10	0.45	99	<1	<0.01	<1	80	2	0.01	<2	<1	96
I026031		<10	<1	0.23	10	0.59	329	5	<0.01	5	670	47	0.36	<2	4	155
I026032		<10	<1	0.22	10	0.58	305	4	<0.01	5	660	52	0.53	<2	4	146
I026033		<10	<1	0.22	10	0.58	290	4	<0.01	5	690	60	0.48	<2	4	168
I026034		<10	<1	0.23	10	0.58	263	4	<0.01	4	640	39	0.56	<2	4	185
I026035		<10	<1	0.23	10	0.60	278	4	<0.01	5	630	73	0.65	<2	4	176
I026036		<10	<1	0.24	10	0.62	290	3	<0.01	6	660	66	1.02	<2	4	356
I026037		<10	<1	0.23	10	0.67	296	3	<0.01	6	680	55	0.92	<2	5	167
I026038		<10	<1	0.22	10	0.60	234	4	<0.01	3	630	28	0.55	<2	4	208
I026039		<10	<1	0.23	10	0.63	237	4	<0.01	4	670	25	0.81	<2	4	268
I026040		<10	<1	0.29	<10	0.56	756	246	0.05	22	750	78	2.21	3	2	56
I026041		<10	<1	0.21	10	0.68	258	4	<0.01	6	660	36	0.73	<2	4	301
I026042		<10	<1	0.23	10	0.69	247	3	<0.01	4	660	15	0.83	<2	5	347
I026043		<10	<1	0.23	10	0.67	262	4	<0.01	4	650	33	0.45	<2	4	326
I026044		<10	<1	0.23	10	0.64	260	5	<0.01	5	640	25	0.67	<2	5	296
I026045		<10	<1	0.24	10	0.62	246	3	<0.01	5	640	15	1.17	<2	4	190
I026046		<10	<1	0.24	10	0.63	224	3	<0.01	3	640	7	0.31	<2	4	218
I026047		<10	<1	0.22	20	0.63	219	2	<0.01	2	700	4	0.23	<2	5	299
I026048		<10	<1	0.22	20	0.68	239	3	<0.01	2	680	3	0.11	<2	5	279
I026049		<10	<1	0.22	10	0.63	222	2	<0.01	3	600	4	0.11	<2	4	271
I026050		<10	<1	0.01	<10	0.64	97	<1	<0.01	<1	70	<2	<0.01	<2	<1	86
I026051		<10	<1	0.23	10	0.69	243	3	0.01	2	600	13	0.21	<2	4	260
I026052		<10	<1	0.22	10	0.68	271	3	<0.01	4	640	13	0.57	<2	4	223
I026053		<10	<1	0.22	10	0.71	276	4	0.01	4	650	12	0.58	<2	4	311
I026054		<10	<1	0.21	10	0.66	290	3	0.01	4	620	24	0.45	<2	4	317

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I026015		<20	<0.01	<10	<10	10	<10	60
I026016		<20	<0.01	<10	<10	10	<10	139
I026017		<20	<0.01	<10	<10	11	<10	44
I026018		<20	<0.01	<10	<10	13	<10	32
I026019		<20	<0.01	<10	<10	11	<10	62
I026020		<20	0.04	<10	<10	31	<10	440
I026021		<20	<0.01	<10	<10	12	<10	87
I026022		<20	<0.01	<10	<10	11	<10	38
I026023		<20	<0.01	<10	<10	11	<10	56
I026024		<20	<0.01	<10	<10	10	<10	36
I026025		<20	<0.01	<10	<10	10	<10	26
I026026		<20	<0.01	<10	<10	11	<10	54
I026027		<20	<0.01	<10	<10	10	<10	56
I026028		<20	<0.01	<10	<10	12	<10	65
I026029		<20	<0.01	<10	<10	12	<10	65
I026030		<20	<0.01	<10	<10	<1	<10	<2
I026031		<20	<0.01	<10	<10	12	<10	81
I026032		<20	<0.01	<10	<10	11	<10	102
I026033		<20	<0.01	<10	<10	11	<10	101
I026034		<20	<0.01	<10	<10	9	<10	60
I026035		<20	<0.01	<10	<10	11	<10	86
I026036		<20	<0.01	<10	<10	13	<10	93
I026037		<20	<0.01	<10	<10	13	<10	76
I026038		<20	<0.01	<10	<10	11	<10	29
I026039		<20	<0.01	<10	<10	11	<10	35
I026040		<20	0.04	<10	<10	32	<10	435
I026041		<20	<0.01	<10	<10	12	<10	49
I026042		<20	<0.01	<10	<10	11	<10	18
I026043		<20	<0.01	<10	<10	12	<10	38
I026044		<20	<0.01	<10	<10	11	<10	42
I026045		<20	<0.01	<10	<10	11	<10	24
I026046		<20	<0.01	<10	<10	11	<10	22
I026047		<20	<0.01	<10	<10	9	<10	19
I026048		<20	<0.01	<10	<10	11	<10	23
I026049		<20	<0.01	<10	<10	10	<10	18
I026050		<20	<0.01	<10	<10	<1	<10	2
I026051		<20	<0.01	<10	<10	10	<10	27
I026052		<20	<0.01	<10	<10	15	<10	47
I026053		<20	<0.01	<10	<10	13	<10	31
I026054		<20	<0.01	<10	<10	15	10	35

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I026055		4.08	0.064	0.4	0.44	38	<10	220	0.7	<2	1.22	0.5	4	7	119	3.13
I026056		4.24	0.064	0.3	0.42	49	<10	220	0.8	<2	1.03	<0.5	6	5	133	2.80
I026057		4.22	0.088	0.4	0.40	40	<10	240	0.7	<2	1.23	<0.5	5	5	120	2.94
I026058		4.50	0.129	0.4	0.41	49	<10	240	0.7	<2	1.06	<0.5	5	6	139	2.91
I026059		4.40	0.102	1.3	0.40	33	<10	180	0.6	5	1.00	0.6	5	6	92	2.54
I026060		0.08	0.341	2.6	1.76	29	10	60	<0.5	<2	0.66	2.2	11	29	2530	4.58
I026061		4.52	0.144	0.8	0.40	55	<10	210	0.7	2	1.05	0.5	7	5	88	2.71
I026062		4.38	0.067	0.6	0.42	72	<10	200	0.6	<2	0.97	0.9	12	5	140	2.88
I026063		4.52	0.138	0.8	0.44	68	<10	220	0.6	2	1.13	0.7	17	6	191	3.03
I026064		4.34	0.048	1.0	0.44	55	<10	190	0.6	4	1.24	<0.5	28	6	155	3.07
I026065		4.60	0.010	2.9	0.47	62	<10	180	0.6	15	1.03	1.1	20	6	83	2.91
I026066		4.30	0.005	5.7	0.43	10	<10	110	0.6	48	1.05	2.2	4	6	71	2.56
I026067		4.68	0.010	2.8	0.45	18	<10	450	0.6	14	1.37	1.8	15	7	82	2.48
I026068		4.18	<0.005	2.5	0.45	6	<10	250	0.6	9	1.30	1.5	7	6	59	2.25
I026069		4.44	<0.005	2.0	0.45	7	<10	260	0.6	5	0.81	0.8	10	7	55	2.44
I026070		0.40	<0.005	0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.07
I026071		4.32	0.006	5.9	0.46	33	<10	310	0.6	31	0.87	4.1	14	7	64	2.47
I026072		4.60	0.017	2.3	0.43	87	<10	120	0.5	5	0.81	0.7	15	7	54	2.81
I026073/I026074		8.64	0.016	2.6	0.42	179	<10	230	0.5	6	1.02	1.0	19	7	177	3.00
I026075		4.40	0.019	2.4	0.44	191	<10	220	0.5	6	0.98	0.5	11	7	97	2.55
I026076		4.56	0.017	2.0	0.41	150	<10	170	<0.5	4	1.14	0.7	12	6	121	2.07
I026077		4.40	0.047	2.0	0.39	297	<10	120	<0.5	4	1.08	0.9	10	6	109	2.05
I026078		4.28	0.080	4.5	0.40	193	<10	40	<0.5	10	1.16	3.6	14	6	182	2.47
I026079		4.48	0.284	4.6	0.39	892	<10	110	<0.5	13	1.27	3.3	10	6	164	2.39
I026080		0.10	0.357	2.7	1.70	26	10	60	<0.5	3	0.64	2.2	12	28	2420	4.44
I026081		4.38	0.050	2.0	0.42	259	<10	230	<0.5	5	1.41	0.8	6	7	29	1.86
I026082		2.80	0.621	5.9	0.43	248	<10	100	<0.5	8	1.12	2.4	21	8	1680	3.22
I026083		2.82	0.078	3.6	0.40	84	10	80	<0.5	19	1.22	1.2	8	8	98	3.02
I026084		2.96	<0.005	2.5	0.44	14	<10	80	0.5	12	0.71	<0.5	2	8	5	2.00
I026085		3.54	0.161	9.1	0.45	136	<10	70	0.5	42	0.59	6.5	15	8	349	4.14
I026086		3.12	0.044	4.6	0.47	21	<10	250	0.6	14	0.85	2.8	13	9	108	2.59
I026087		2.86	0.074	4.4	0.44	27	<10	140	0.6	20	0.96	4.7	15	7	226	3.25
I026088		2.96	0.353	3.8	0.38	139	<10	10	0.5	13	1.08	4.8	43	7	573	6.10
I026089		3.56	0.204	2.8	0.37	91	<10	50	<0.5	20	1.47	2.9	23	7	314	3.88
I026090		0.46	<0.005	0.2	0.03	<2	<10	40	<0.5	4	>25.0	<0.5	<1	1	3	0.10
I026091		3.80	0.030	0.8	0.39	35	<10	90	<0.5	2	0.79	<0.5	11	6	159	2.48
I026092		4.34	0.017	0.6	0.41	16	<10	230	<0.5	2	0.86	<0.5	9	6	83	2.49
I026093		4.50	0.182	0.8	0.40	29	<10	280	<0.5	2	1.06	0.6	12	6	134	2.71
I026094		4.60	0.205	0.8	0.42	13	<10	530	0.5	<2	1.04	0.6	9	6	115	2.31
I026095		4.26	0.252	1.5	0.42	13	<10	300	0.5	5	1.08	2.1	11	7	282	2.55

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I026055		<10	<1	0.23	10	0.76	334	3	0.01	5	680	20	0.66	<2	6	241
I026056		<10	<1	0.23	10	0.62	277	3	0.01	4	590	17	0.84	<2	5	345
I026057		<10	<1	0.23	10	0.70	297	4	0.01	3	610	10	0.85	<2	5	253
I026058		<10	<1	0.23	10	0.66	280	4	0.01	5	540	14	0.81	<2	5	279
I026059		<10	<1	0.22	10	0.60	275	4	0.01	4	620	38	0.54	<2	4	242
I026060		<10	<1	0.31	<10	0.58	767	255	0.06	21	710	76	2.14	<2	2	56
I026061		<10	<1	0.23	10	0.61	266	5	0.01	4	610	27	0.86	<2	5	204
I026062		<10	<1	0.24	10	0.61	274	4	0.01	5	610	23	0.90	<2	4	229
I026063		<10	<1	0.25	10	0.64	289	5	0.01	4	640	31	1.02	<2	5	237
I026064		<10	<1	0.25	10	0.65	300	5	0.01	5	710	28	1.08	<2	5	224
I026065		<10	<1	0.26	10	0.65	283	6	0.01	6	700	85	0.67	<2	5	215
I026066		<10	<1	0.24	10	0.66	264	1	0.01	3	590	127	0.14	<2	4	156
I026067		<10	<1	0.24	10	0.68	274	1	0.01	<1	620	77	0.52	<2	5	184
I026068		<10	<1	0.24	10	0.63	248	5	0.01	1	610	63	0.54	<2	5	151
I026069		<10	<1	0.25	10	0.54	220	9	0.01	3	610	61	0.33	<2	5	121
I026070		<10	<1	0.01	<10	0.39	81	<1	<0.01	<1	70	<2	<0.01	<2	<1	79
I026071		<10	<1	0.25	10	0.52	198	6	0.01	4	620	117	0.64	<2	5	154
I026072		<10	<1	0.24	10	0.51	171	8	0.01	7	630	70	0.80	<2	4	116
I026073/I026074		<10	<1	0.24	10	0.58	199	13	0.01	7	640	70	1.04	<2	5	167
I026075		<10	<1	0.25	10	0.49	197	1	0.01	4	640	52	1.09	<2	5	158
I026076		<10	<1	0.23	10	0.46	170	6	0.01	5	560	49	1.11	<2	5	175
I026077		<10	<1	0.22	10	0.35	153	7	0.01	3	590	57	1.75	<2	5	148
I026078		<10	<1	0.22	10	0.39	168	11	0.01	5	590	135	2.22	<2	5	176
I026079		<10	<1	0.22	10	0.50	234	6	0.01	4	540	168	1.61	<2	4	206
I026080		<10	<1	0.30	<10	0.56	737	244	0.05	19	690	73	2.08	<2	2	55
I026081		<10	<1	0.22	<10	0.56	256	1	0.01	1	580	59	0.97	<2	5	392
I026082		<10	<1	0.21	10	0.46	253	354	0.01	6	660	70	2.45	<2	5	387
I026083		<10	<1	0.20	10	0.55	306	1440	0.01	7	520	96	1.94	<2	5	223
I026084		<10	<1	0.21	10	0.51	289	172	0.01	<1	610	94	0.12	<2	4	117
I026085		<10	<1	0.21	10	0.51	334	87	0.01	6	640	413	2.51	<2	4	97
I026086		<10	<1	0.23	20	0.58	354	1	0.01	5	660	260	0.70	<2	5	161
I026087		<10	<1	0.23	10	0.63	329	1	0.01	6	750	221	1.35	<2	6	156
I026088		<10	<1	0.22	10	0.63	273	1	0.01	15	560	197	4.57	5	5	102
I026089		<10	<1	0.21	10	0.79	357	74	0.01	6	540	140	1.80	<2	5	110
I026090		<10	<1	0.02	<10	0.86	85	<1	<0.01	<1	60	<2	0.01	<2	<1	84
I026091		<10	<1	0.23	10	0.52	277	9	0.01	3	540	61	0.42	<2	4	104
I026092		<10	<1	0.24	10	0.57	286	2	0.01	3	590	40	0.47	<2	4	106
I026093		<10	<1	0.23	10	0.59	290	11	0.01	5	570	46	0.76	<2	4	154
I026094		<10	<1	0.24	10	0.62	335	3	0.01	3	590	48	0.42	<2	5	195
I026095		<10	<1	0.24	10	0.70	421	1	0.01	3	610	99	0.44	<2	5	161

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026055		<20	<0.01	<10	<10	17	<10	57
I026056		<20	<0.01	<10	<10	13	<10	48
I026057		<20	<0.01	<10	<10	15	<10	40
I026058		<20	<0.01	<10	<10	14	<10	50
I026059		<20	<0.01	<10	<10	14	<10	51
I026060		<20	0.05	<10	<10	32	<10	441
I026061		<20	<0.01	<10	<10	11	<10	49
I026062		<20	<0.01	<10	<10	12	<10	71
I026063		<20	<0.01	<10	<10	13	<10	58
I026064		<20	<0.01	<10	<10	14	<10	40
I026065		<20	<0.01	<10	<10	15	<10	86
I026066		<20	<0.01	<10	<10	14	<10	158
I026067		<20	<0.01	<10	<10	18	<10	132
I026068		<20	<0.01	<10	<10	15	<10	113
I026069		<20	<0.01	<10	<10	15	<10	65
I026070		<20	<0.01	<10	<10	<1	<10	<2
I026071		<20	<0.01	<10	<10	17	<10	288
I026072		<20	<0.01	<10	<10	14	<10	54
I026073/I026074		<20	<0.01	<10	<10	16	<10	76
I026075		<20	<0.01	<10	<10	13	<10	34
I026076		<20	<0.01	<10	<10	11	<10	49
I026077		<20	<0.01	<10	10	9	10	62
I026078		<20	<0.01	<10	<10	9	20	237
I026079		<20	<0.01	<10	<10	12	10	218
I026080		<20	0.05	<10	<10	30	<10	424
I026081		<20	<0.01	<10	<10	13	<10	54
I026082		<20	<0.01	<10	<10	13	30	164
I026083		<20	<0.01	<10	<10	15	30	78
I026084		<20	<0.01	<10	<10	15	<10	13
I026085		<20	<0.01	<10	<10	20	10	400
I026086		<20	<0.01	<10	<10	19	<10	183
I026087		<20	<0.01	<10	<10	22	<10	287
I026088		<20	<0.01	<10	<10	21	10	299
I026089		<20	<0.01	<10	<10	22	<10	174
I026090		<20	<0.01	<10	<10	<1	<10	2
I026091		<20	<0.01	<10	<10	15	<10	29
I026092		<20	<0.01	<10	<10	15	<10	34
I026093		<20	<0.01	<10	<10	14	<10	42
I026094		<20	<0.01	<10	<10	15	<10	46
I026095		<20	<0.01	<10	<10	19	<10	141

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	WEI- 21	Au- AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026096		4.20	0.037	0.2	0.38	24	<10	240	0.5	<2	0.98	<0.5	6	7	77	2.15
I026097		4.54	0.227	0.2	0.38	174	<10	30	0.5	6	1.08	<0.5	15	4	4	3.99
I026098		4.50	0.087	0.7	0.40	54	<10	200	0.5	3	1.07	0.6	9	5	126	2.52
I026099		4.74	0.057	1.9	0.40	18	<10	250	0.5	2	0.97	1.1	5	6	260	2.79
I026100		0.08	0.324	2.6	1.73	28	10	60	<0.5	3	0.87	2.2	12	29	2560	4.63
I026101		4.06	0.011	1.1	0.40	20	<10	260	0.5	3	1.15	0.6	4	6	250	2.57
I026102		4.82	0.020	1.3	0.40	56	<10	240	0.5	3	1.20	1.4	5	7	453	3.12
I026103		4.30	0.011	0.8	0.43	19	<10	200	0.5	2	1.15	0.7	4	6	178	2.73
I026104		4.56	0.030	1.0	0.43	39	<10	160	0.5	2	1.33	1.4	5	6	273	3.07
I026105		4.38	0.768	0.9	0.40	39	<10	170	0.5	<2	1.47	0.6	5	5	268	2.89
I026106		3.26	0.012	0.7	0.40	17	<10	140	0.5	<2	1.40	0.8	4	5	226	2.42
I026107		2.94	<0.005	0.6	0.42	22	<10	50	0.5	<2	1.63	<0.5	3	6	191	1.91
I026108		2.48	0.005	0.7	0.41	25	<10	50	0.5	<2	2.01	<0.5	3	6	178	1.96
I026109		3.34	0.018	1.0	0.40	54	<10	120	0.7	2	1.26	0.6	3	4	240	2.72
I026110		0.42	<0.005	0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	<1	<1	2	0.09
I026111		2.98	0.022	1.1	0.48	42	<10	150	0.7	3	1.20	0.9	2	5	230	2.08
I026112		3.02	0.242	1.8	0.48	145	<10	30	0.6	7	1.21	0.7	16	5	403	3.28
I026113		3.84	0.055	1.8	0.41	74	<10	30	0.5	5	1.70	1.4	8	5	545	3.92
I026114		4.68	0.089	2.2	0.41	211	<10	130	<0.5	7	1.05	2.3	8	5	730	3.47
I026115		4.94	0.380	3.1	0.33	299	<10	110	<0.5	9	0.89	1.3	21	5	1125	3.21
I026116		4.26	0.395	3.9	0.40	235	<10	100	<0.5	18	0.95	1.0	28	6	725	4.05
I026117		4.38	0.028	2.4	0.36	147	<10	100	<0.5	7	1.03	1.1	8	6	635	3.65
I026118		4.40	0.029	2.6	0.38	129	<10	160	<0.5	7	1.13	0.8	7	6	670	3.63
I026119		4.42	0.220	3.1	0.33	127	<10	90	<0.5	16	1.22	0.9	22	5	607	4.01
I026120		0.10	0.339	2.6	1.71	30	10	60	<0.5	2	0.93	2.1	12	29	2540	4.58
I026121		4.38	0.054	2.2	0.40	78	<10	180	0.5	6	1.85	1.4	10	5	335	3.38
I026122		4.68	0.160	2.7	0.42	78	<10	150	0.6	14	1.37	1.2	7	6	384	3.08
I026123		4.58	0.023	1.9	0.33	60	<10	20	<0.5	11	1.13	1.1	13	5	396	4.24
I026124		4.32	0.020	1.6	0.32	60	<10	50	<0.5	6	1.05	0.9	14	4	364	3.96
I026125		4.18	0.152	4.5	0.36	45	<10	140	<0.5	38	1.45	1.7	7	4	1235	2.61
I026126		4.56	0.217	5.3	0.36	79	<10	70	<0.5	54	1.29	1.0	14	4	1005	3.50
I026127		4.84	0.023	2.0	0.47	28	<10	110	0.5	11	1.35	1.1	8	4	644	2.85
I026128		4.62	0.027	2.0	0.33	50	<10	110	<0.5	9	1.63	1.4	10	6	622	3.46
I026129		4.62	0.314	1.4	0.44	133	<10	30	0.5	9	1.66	0.9	77	4	393	5.67
I026130		0.40	<0.005	0.2	0.02	<2	10	10	<0.5	2	>25.0	<0.5	<1	1	3	0.06
I026131		4.88	0.064	2.3	0.45	68	<10	50	0.6	11	1.92	0.8	20	4	883	3.92
I026132		4.58	0.019	1.5	0.48	10	<10	130	0.7	12	1.88	0.8	5	4	341	2.81
I026133		4.20	0.057	1.3	0.42	11	<10	50	0.6	8	1.78	0.9	5	4	368	2.22
I026134		2.14	0.019	0.9	0.40	8	<10	50	0.5	2	1.22	<0.5	6	5	435	2.69
I026135		2.54	0.055	1.5	0.30	37	<10	50	<0.5	<2	1.00	1.1	17	5	666	5.64

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026096		<10	<1	0.22	10	0.61	390	1	0.01	2	600	7	0.32	<2	4	136
I026097		<10	<1	0.23	10	0.48	259	1	0.01	5	670	6	3.31	<2	4	132
I026098		<10	<1	0.23	10	0.58	331	1	0.01	3	550	38	1.15	<2	4	184
I026099		<10	<1	0.23	10	0.60	338	1	0.01	4	590	66	1.05	<2	5	171
I026100		<10	<1	0.30	<10	0.58	764	244	0.05	20	720	76	2.16	<2	2	56
I026101		<10	<1	0.24	10	0.67	339	2	0.01	3	560	68	0.75	<2	4	1555
I026102		<10	<1	0.23	10	0.76	377	2	0.01	4	640	71	0.87	<2	5	176
I026103		<10	<1	0.24	10	0.68	306	2	0.01	3	600	46	0.86	<2	5	165
I026104		<10	<1	0.24	10	0.73	298	3	0.01	4	600	49	1.34	<2	5	168
I026105		<10	<1	0.22	10	0.77	286	6	0.01	4	560	49	1.21	<2	5	138
I026106		<10	<1	0.22	10	0.69	258	8	0.01	4	550	32	0.87	<2	4	114
I026107		<10	<1	0.22	10	0.64	238	2	0.01	4	510	25	0.94	<2	4	135
I026108		<10	<1	0.22	10	0.73	244	1	0.01	3	530	38	1.26	<2	4	175
I026109		<10	<1	0.23	10	0.60	252	38	0.01	4	550	55	1.78	<2	5	131
I026110		<10	1	0.01	<10	0.56	103	<1	<0.01	<1	70	2	0.01	<2	<1	85
I026111		<10	<1	0.22	10	0.57	240	12	0.01	3	470	61	0.79	<2	5	140
I026112		<10	<1	0.22	10	0.63	255	8	0.01	4	450	33	1.84	<2	4	137
I026113		<10	<1	0.23	10	0.91	325	6	0.01	5	700	39	1.62	<2	5	124
I026114		<10	<1	0.23	10	0.67	243	5	0.01	4	550	36	1.39	2	3	102
I026115		<10	<1	0.20	10	0.52	204	20	0.01	4	620	41	1.57	<2	3	101
I026116		<10	<1	0.24	10	0.68	268	36	0.01	5	650	67	1.66	<2	4	124
I026117		<10	<1	0.22	10	0.75	293	46	0.01	5	660	47	1.01	<2	4	240
I026118		<10	<1	0.23	10	0.77	309	16	0.01	4	670	47	1.00	<2	4	134
I026119		<10	<1	0.21	10	0.73	302	41	0.01	4	640	47	1.81	<2	5	127
I026120		10	<1	0.30	<10	0.58	758	250	0.05	20	710	75	2.14	2	2	56
I026121		<10	<1	0.24	10	0.91	404	53	0.01	5	680	36	1.22	<2	5	161
I026122		<10	<1	0.24	10	0.74	355	23	0.01	4	650	70	1.00	<2	5	129
I026123		<10	<1	0.21	10	0.52	287	16	0.01	3	600	55	3.04	<2	3	99
I026124		<10	<1	0.20	10	0.45	255	41	0.01	4	680	48	2.97	3	3	79
I026125		<10	<1	0.23	10	0.60	363	66	0.01	2	620	91	1.40	3	4	99
I026126		<10	<1	0.21	10	0.63	373	54	0.01	2	610	100	2.01	2	3	111
I026127		<10	<1	0.26	10	0.71	438	18	0.01	4	680	43	0.91	<2	4	144
I026128		<10	<1	0.20	10	0.82	475	42	0.01	4	660	72	1.54	<2	3	235
I026129		<10	<1	0.25	10	0.67	351	20	0.01	5	730	34	4.77	<2	3	175
I026130		<10	<1	0.01	<10	0.53	77	<1	<0.01	<1	70	<2	0.01	<2	<1	80
I026131		<10	<1	0.24	20	0.75	439	18	0.01	8	690	36	2.75	<2	4	195
I026132		<10	<1	0.25	20	0.89	592	2	0.01	4	720	40	0.76	<2	5	180
I026133		<10	<1	0.23	20	0.80	478	17	0.01	2	600	44	0.47	<2	4	171
I026134		<10	<1	0.23	20	0.65	479	2	0.01	3	650	25	0.92	<2	3	123
I026135		<10	<1	0.20	10	0.68	647	3	0.01	8	590	37	3.34	2	4	106

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026096		<20	<0.01	<10	<10	16	<10	21
I026097		<20	<0.01	<10	<10	9	<10	14
I026098		<20	<0.01	<10	<10	13	<10	44
I026099		<20	<0.01	<10	<10	16	<10	67
I026100		<20	0.04	<10	<10	31	<10	435
I026101		<20	<0.01	<10	<10	17	<10	47
I026102		<20	<0.01	<10	<10	21	<10	90
I026103		<20	<0.01	<10	<10	16	<10	51
I026104		<20	<0.01	<10	<10	15	<10	90
I026105		<20	<0.01	<10	<10	15	<10	43
I026106		<20	<0.01	<10	<10	12	<10	51
I026107		<20	<0.01	<10	<10	12	<10	27
I026108		<20	<0.01	<10	<10	12	<10	28
I026109		<20	<0.01	<10	<10	12	10	45
I026110		<20	<0.01	<10	<10	<1	<10	<2
I026111		<20	<0.01	<10	<10	11	<10	52
I026112		<20	<0.01	<10	<10	14	10	39
I026113		<20	<0.01	<10	<10	19	20	82
I026114		<20	<0.01	<10	<10	13	20	128
I026115		<20	<0.01	<10	<10	12	10	72
I026116		<20	<0.01	<10	<10	18	10	59
I026117		<20	<0.01	<10	<10	18	30	65
I026118		<20	<0.01	<10	<10	19	<10	47
I026119		<20	<0.01	<10	<10	17	30	47
I026120		<20	0.04	<10	<10	31	<10	439
I026121		<20	<0.01	<10	<10	16	10	85
I026122		<20	<0.01	<10	<10	18	10	70
I026123		<20	<0.01	<10	<10	15	10	63
I026124		<20	<0.01	<10	<10	11	20	61
I026125		<20	<0.01	<10	<10	14	10	109
I026126		<20	<0.01	<10	<10	13	10	62
I026127		<20	<0.01	<10	<10	13	10	77
I026128		<20	<0.01	<10	<10	17	30	98
I026129		<20	<0.01	<10	<10	9	10	62
I026130		<20	<0.01	<10	<10	<1	<10	<2
I026131		<20	<0.01	<10	<10	14	20	57
I026132		<20	<0.01	<10	<10	17	<10	67
I026133		<20	<0.01	<10	<10	12	10	82
I026134		<20	<0.01	<10	<10	13	20	34
I026135		<20	<0.01	<10	<10	22	50	89

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I026136		3.06	0.086	7.8	0.32	54	<10	30	<0.5	57	1.48	4.8	17	6	1095	5.98
I026137		3.10	0.364	12.0	0.26	63	<10	10	<0.5	114	0.96	4.1	44	5	2730	12.30
I026138		2.98	0.463	21.1	0.27	37	<10	20	<0.5	163	1.49	6.1	26	6	3440	7.60
I026139		3.02	1.870	10.9	0.32	51	<10	10	<0.5	57	1.01	12.7	35	6	3010	7.99
I026140		0.10	0.322	2.7	1.71	28	10	60	<0.5	<2	0.85	2.2	11	28	2520	4.57
I026141		3.40	0.527	7.2	0.28	100	<10	10	<0.5	14	1.00	2.5	32	5	3460	9.41
I026142		3.08	1.160	3.2	0.36	404	<10	10	<0.5	17	1.45	1.3	48	7	1880	6.12
I026143		4.68	0.116	3.4	0.32	23	<10	40	<0.5	16	1.20	3.2	14	6	946	4.99
I026144		4.44	0.028	0.9	0.43	12	<10	110	0.5	2	1.27	0.7	9	4	387	3.17
I026145		4.58	0.043	1.2	0.43	14	<10	40	0.5	3	1.19	1.2	11	3	442	3.85
I026146		4.42	0.032	1.2	0.47	13	<10	170	0.5	4	1.22	0.7	5	4	333	2.37
I026147		4.64	0.566	1.0	0.42	59	<10	150	0.5	5	1.70	1.1	11	4	448	2.83
I026148		4.38	0.115	0.5	0.45	68	<10	110	0.5	<2	1.27	<0.5	7	4	292	2.19
I026149		4.78	0.274	0.6	0.46	73	<10	100	0.6	3	1.37	<0.5	11	4	344	2.11
I026150		0.38	<0.005	0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	1	<1	2	0.06
I026151		4.20	0.008	0.7	0.43	9	<10	40	0.5	<2	1.34	0.7	3	4	152	1.85
I026152		4.68	<0.005	0.7	0.48	6	<10	210	0.6	2	1.28	0.6	2	5	163	1.89
I026153		4.32	<0.005	0.7	0.44	8	<10	230	0.6	<2	1.26	<0.5	4	5	251	2.31
I026154		4.38	0.107	0.9	0.49	35	<10	430	0.7	5	1.24	0.8	6	5	330	2.30
I026155		4.16	0.134	1.3	0.40	142	<10	60	0.5	14	1.34	0.7	7	6	180	2.85
I026156		4.50	0.051	1.5	0.45	77	<10	170	0.6	9	2.31	1.5	5	6	78	2.82
I026157		3.88	<0.005	1.1	0.39	11	<10	860	0.6	6	2.33	1.2	5	8	57	2.49
I026158		4.22	0.072	1.4	0.44	131	<10	50	0.6	8	1.69	2.8	3	6	47	2.45
I026159		4.18	0.075	1.9	0.40	138	<10	120	0.5	11	1.66	3.8	4	6	111	2.41
I026160		0.10	0.342	2.6	1.78	30	10	70	<0.5	3	0.87	2.1	12	30	2570	4.57
I026161		4.42	0.230	1.4	0.41	169	<10	40	<0.5	10	1.42	1.5	12	5	84	3.19
I026162		3.96	0.473	0.7	0.44	304	<10	60	0.5	5	1.48	1.6	39	6	205	5.80
I026163		4.62	0.127	2.1	1.17	48	<10	180	<0.5	3	1.07	1.0	11	10	593	4.00
I026164		4.54	0.044	0.7	0.88	16	<10	230	<0.5	<2	1.53	<0.5	8	7	194	3.69
I026165		4.80	0.037	1.1	0.74	18	<10	120	0.6	2	2.04	<0.5	13	6	381	4.34
I026166		4.72	0.143	1.7	0.90	10	<10	220	<0.5	2	1.22	<0.5	7	8	714	3.49
I026167		4.34	0.104	1.9	1.23	10	<10	200	<0.5	2	0.98	<0.5	10	11	695	3.99
I026168		4.70	0.137	1.0	1.38	8	<10	180	<0.5	<2	0.94	<0.5	9	11	439	3.77
I026169		4.56	0.081	1.3	0.98	16	<10	120	0.5	3	1.91	<0.5	8	8	481	3.35
I026170		0.56	<0.005	<0.2	0.04	2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.07
I026171		4.52	0.079	1.0	1.31	5	<10	360	<0.5	<2	1.25	<0.5	8	12	418	3.23
I026172		4.44	0.044	0.7	1.00	21	<10	110	0.7	<2	2.24	1.2	7	8	162	3.13
I026173		5.08	0.019	0.4	0.88	17	<10	40	0.7	<2	3.01	<0.5	7	8	131	3.06
I026174		4.62	0.052	0.7	0.72	19	<10	330	0.7	<2	3.12	<0.5	6	6	358	3.30
I026175		4.42	0.023	1.2	0.82	18	<10	80	0.7	<2	2.53	0.5	8	6	320	3.07

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I026136		<10	<1	0.21	10	0.78	680	5	0.01	5	770	336	3.93	2	4	147
I026137		<10	<1	0.19	10	0.48	478	9	0.01	15	510	446	>10.0	5	2	97
I026138		<10	<1	0.19	10	0.66	712	6	0.01	11	550	773	6.56	4	3	148
I026139		<10	<1	0.21	10	0.57	631	7	0.01	13	660	410	6.90	<2	3	106
I026140		<10	<1	0.30	<10	0.57	749	242	0.05	20	710	74	2.13	<2	2	66
I026141		<10	<1	0.18	10	0.52	525	7	0.01	17	620	137	8.93	3	3	95
I026142		<10	1	0.23	10	0.57	490	41	0.01	6	960	95	5.26	<2	3	123
I026143		<10	<1	0.20	10	0.66	680	9	0.01	5	670	148	3.13	2	4	115
I026144		<10	<1	0.24	10	0.66	574	7	0.01	4	660	39	1.56	<2	4	136
I026145		<10	<1	0.23	20	0.59	492	4	0.01	6	650	50	2.55	<2	3	139
I026146		<10	<1	0.25	20	0.62	555	14	0.01	5	680	47	0.81	<2	3	136
I026147		<10	<1	0.22	20	0.81	673	4	0.01	7	620	40	1.09	<2	4	172
I026148		<10	<1	0.23	20	0.62	577	10	0.01	4	640	17	0.64	<2	3	138
I026149		<10	<1	0.23	20	0.58	519	3	0.01	4	670	14	0.85	<2	3	133
I026150		<10	<1	0.01	<10	0.55	91	<1	<0.01	<1	70	<2	<0.01	<2	<1	87
I026151		<10	<1	0.21	20	0.63	563	5	0.01	2	640	32	0.21	<2	3	146
I026152		<10	<1	0.24	20	0.62	559	3	0.01	1	710	30	0.08	<2	3	167
I026153		<10	<1	0.22	20	0.68	638	24	0.01	3	680	30	0.15	<2	3	160
I026154		<10	<1	0.22	20	0.64	469	28	0.02	3	500	23	0.54	<2	3	161
I026155		<10	<1	0.20	20	0.74	455	9	0.01	5	680	59	1.29	<2	4	143
I026156		<10	<1	0.22	20	1.07	584	1	0.01	4	730	91	1.07	<2	4	331
I026157		<10	<1	0.20	20	1.19	609	1	0.02	4	640	72	0.28	<2	5	313
I026158		<10	<1	0.22	20	0.82	578	6	0.01	4	650	129	1.10	<2	4	210
I026159		<10	<1	0.20	10	0.78	545	10	0.01	3	670	199	1.37	<2	4	160
I026160		<10	<1	0.31	<10	0.58	779	253	0.05	21	730	77	2.23	<2	2	59
I026161		<10	<1	0.24	10	0.67	450	9	0.01	4	620	157	2.36	<2	4	301
I026162		<10	<1	0.27	10	0.85	408	6	0.01	9	730	149	4.58	<2	6	209
I026163		10	<1	0.68	30	0.98	251	8	0.08	6	900	40	0.79	2	7	126
I026164		<10	<1	0.43	20	0.91	252	9	0.07	5	880	34	0.46	<2	7	221
I026165		<10	<1	0.34	20	1.06	233	42	0.03	5	880	13	1.18	2	6	126
I026166		<10	<1	0.48	30	0.86	195	63	0.07	6	880	14	0.57	<2	6	133
I026167		10	<1	0.51	30	1.00	197	49	0.07	7	870	7	0.98	<2	6	73
I026168		10	<1	0.56	30	1.06	183	33	0.08	6	920	10	0.70	<2	7	80
I026169		<10	<1	0.34	30	0.96	228	61	0.04	5	880	9	0.57	<2	6	205
I026170		<10	<1	0.01	<10	0.42	97	<1	<0.01	<1	80	3	<0.01	<2	<1	87
I026171		10	<1	0.70	20	1.02	248	20	0.10	6	880	6	0.24	<2	7	166
I026172		<10	<1	0.21	20	1.01	358	19	0.02	6	900	70	0.33	<2	7	160
I026173		<10	<1	0.12	20	1.18	338	11	0.01	6	890	12	0.27	2	8	141
I026174		<10	<1	0.18	20	1.20	328	20	0.01	5	800	9	0.36	2	7	200
I026175		<10	<1	0.21	20	1.04	363	13	0.01	6	890	19	0.33	<2	8	134

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026136		<20	<0.01	<10	<10	20	40	320
I026137		<20	<0.01	<10	<10	13	50	261
I026138		<20	<0.01	<10	<10	17	40	391
I026139		<20	<0.01	<10	<10	17	80	898
I026140		<20	0.04	<10	<10	31	<10	435
I026141		<20	<0.01	<10	<10	15	190	185
I026142		<20	<0.01	<10	<10	13	50	90
I026143		<20	<0.01	<10	<10	18	30	249
I026144		<20	<0.01	<10	<10	13	20	52
I026145		<20	<0.01	<10	<10	10	30	99
I026146		<20	<0.01	<10	<10	11	20	67
I026147		<20	<0.01	<10	<10	14	10	104
I026148		<20	<0.01	<10	<10	12	<10	37
I026149		<20	<0.01	<10	<10	11	<10	23
I026150		<20	<0.01	<10	<10	<1	<10	2
I026151		<20	<0.01	<10	<10	11	10	63
I026152		<20	<0.01	<10	<10	12	10	52
I026153		<20	<0.01	<10	<10	13	10	41
I026154		<20	<0.01	<10	<10	13	10	63
I026155		<20	<0.01	<10	<10	18	<10	52
I026156		<20	<0.01	<10	<10	21	<10	105
I026157		<20	<0.01	<10	<10	21	<10	88
I026158		<20	<0.01	<10	<10	15	<10	206
I026159		<20	<0.01	<10	<10	15	<10	293
I026160		<20	0.05	<10	<10	33	<10	452
I026161		<20	<0.01	<10	<10	14	<10	131
I026162		<20	<0.01	<10	<10	20	10	161
I026163		20	0.09	<10	<10	63	<10	91
I026164		<20	0.04	<10	<10	45	10	56
I026165		<20	0.02	<10	<10	35	10	35
I026166		20	0.06	<10	<10	44	<10	43
I026167		<20	0.08	<10	<10	67	10	40
I026168		<20	0.09	<10	<10	71	90	33
I026169		<20	0.03	<10	<10	50	<10	36
I026170		<20	<0.01	<10	<10	1	<10	2
I026171		<20	0.15	<10	<10	73	10	31
I026172		<20	0.01	<10	<10	53	<10	99
I026173		<20	<0.01	<10	<10	53	<10	29
I026174		<20	<0.01	<10	<10	33	<10	36
I026175		<20	<0.01	<10	<10	35	<10	48

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026176		4.20	0.016	0.3	0.78	19	<10	120	0.7	<2	2.31	<0.5	9	7	156	2.66
I026177		4.42	0.015	0.3	0.78	19	<10	460	0.7	<2	3.33	<0.5	9	6	153	2.85

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I026176		<10	<1	0.14	10	0.90	298	7	0.01	5	880	9	0.19	<2	8	144
I026177		<10	<1	0.16	10	1.25	352	6	0.01	5	840	10	0.20	2	8	514

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

***** See Appendix Page for comments regarding this certificate *****

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I026176		<20	<0.01	<10	<10	38	<10	22
I026177		<20	<0.01	<10	<10	36	<10	21

Comments: **Corrected certificate for Au- AA23 on samples K917231 to K917249 and K917281 to I026009**

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17147702

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au- AA23	CRU- 31	CRU- QC	EXTRA- 01
LOG- 21	LOG- 23	ME- ICP41	PUL- 35
PUL- QC	SPL- 21	WEI- 21	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 25- AUG- 2017
This copy reported on
12- OCT- 2017
Account: NOFREG

CERTIFICATE WH17149537

Project: Freegold Mountain Project

P.O. No.: 1005139- NOFREG- - R1

This report is for 218 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 25- AUG- 2017
Account: NOFREG

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K917290		0.48	<0.005	0.3	0.11	<2	<10	20	<0.5	4	>25.0	<0.5	1	1	2	0.12
K917291		9.56	0.014	<0.2	1.08	<2	<10	240	<0.5	<2	0.48	<0.5	6	9	69	2.10
K917292		9.78	<0.005	<0.2	1.08	6	<10	160	<0.5	<2	0.45	<0.5	6	9	103	2.33
K917293		10.42	<0.005	<0.2	1.07	3	<10	190	<0.5	<2	0.59	<0.5	6	7	36	2.13
K917294		9.26	0.039	<0.2	1.09	4	<10	220	<0.5	<2	0.48	<0.5	7	9	97	2.38
K917295		8.70	0.240	0.3	1.02	6	<10	70	<0.5	8	0.39	<0.5	7	9	221	2.37
K917296		10.16	0.094	0.4	0.94	2	<10	50	<0.5	5	0.52	<0.5	8	9	249	2.37
K917297		7.64	0.529	0.7	1.26	11	<10	100	<0.5	6	0.83	<0.5	7	9	501	2.59
K917298		11.24	0.091	0.3	0.89	7	<10	120	<0.5	3	0.44	<0.5	5	10	182	1.93
K917299		9.98	0.123	0.4	1.09	8	<10	140	<0.5	2	0.41	<0.5	7	10	222	2.29
K917300		0.08	0.334	2.6	1.70	27	10	60	<0.5	3	0.82	2.2	11	29	2510	4.44
K917301		10.90	0.043	0.4	1.09	<2	<10	150	<0.5	<2	0.50	<0.5	7	11	231	2.55
K917302		10.08	0.025	0.2	1.00	4	<10	170	<0.5	2	0.66	<0.5	6	10	126	2.25
K917303		10.86	0.008	<0.2	1.10	8	<10	220	<0.5	<2	0.60	<0.5	5	10	58	2.23
K917304		11.50	0.045	0.2	1.10	3	<10	180	<0.5	<2	0.57	<0.5	6	10	127	2.40
K917305		11.96	0.033	0.2	1.18	3	<10	170	<0.5	<2	0.67	<0.5	6	11	117	2.39
K917306		10.74	0.028	0.2	1.15	9	<10	150	<0.5	<2	0.66	<0.5	7	11	152	2.30
K917307		11.64	0.031	0.3	1.10	5	<10	130	<0.5	<2	0.70	<0.5	8	11	213	2.56
K917308		9.96	0.201	0.4	0.94	3	<10	90	<0.5	15	0.84	<0.5	8	10	238	2.42
K917309		8.04	0.114	0.4	1.09	2	<10	150	<0.5	4	0.90	<0.5	6	12	229	2.65
K917310		0.54	<0.005	0.3	0.01	4	<10	20	<0.5	5	>25.0	<0.5	1	1	1	0.07
K917311		6.28	0.021	0.3	1.10	7	<10	130	<0.5	3	0.88	<0.5	6	10	206	2.46
K917312		7.42	0.057	0.5	0.84	21	<10	60	0.5	5	0.76	<0.5	9	5	499	3.19
K917313		11.88	0.224	0.5	0.80	35	<10	70	0.5	6	0.30	<0.5	7	3	591	4.52
K917314		11.74	0.233	0.6	0.82	57	<10	80	0.5	5	0.38	<0.5	9	3	606	5.16
K917315		7.30	0.025	0.4	0.76	22	<10	80	0.5	2	0.23	<0.5	8	3	405	3.80
K917316		9.80	0.052	0.5	0.70	58	<10	60	0.6	<2	0.50	<0.5	7	4	335	2.84
K917317		11.02	0.041	0.3	0.94	45	<10	50	0.8	<2	0.67	<0.5	7	5	278	2.89
K917318		9.72	0.067	0.5	0.53	148	<10	50	<0.5	2	0.54	<0.5	6	3	468	3.37
K917319		6.28	0.032	0.6	0.56	25	<10	70	0.5	3	0.14	<0.5	7	3	532	3.75
K917320		0.08	0.761	3.0	1.13	14	10	110	<0.5	<2	0.73	<0.5	11	45	7690	2.51
K917321		10.02	0.046	0.5	0.69	10	<10	70	0.5	<2	0.43	<0.5	7	5	340	3.25
K917322		6.86	0.029	0.4	0.98	2	<10	90	<0.5	3	0.99	<0.5	7	10	234	2.55
K917323		11.56	0.043	0.6	1.00	8	<10	70	<0.5	2	1.07	<0.5	8	9	339	2.57
K917324		11.24	0.039	0.5	0.94	9	<10	50	<0.5	2	1.10	<0.5	7	9	295	2.58
K917325		11.34	0.033	0.6	0.95	26	<10	40	<0.5	<2	1.18	<0.5	8	8	291	2.39
K917326		11.58	0.221	0.6	0.76	10	<10	40	<0.5	<2	1.13	<0.5	7	9	316	2.27
K917327		8.16	0.034	0.4	0.67	8	<10	40	<0.5	2	1.18	<0.5	7	8	187	1.64
K917328		7.66	0.066	0.4	0.76	2	<10	60	<0.5	2	0.83	<0.5	6	9	178	2.04
K917329		4.24	0.046	0.4	0.76	2	<10	70	<0.5	2	0.79	<0.5	5	9	188	1.90

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917290		<10	<1	0.08	<10	0.68	101	<1	0.01	<1	50	2	0.01	<2	<1	81
K917291		<10	<1	0.43	20	0.52	205	1	0.11	4	570	4	0.14	2	3	25
K917292		<10	<1	0.43	20	0.57	157	1	0.07	4	570	3	0.27	<2	4	21
K917293		<10	<1	0.40	20	0.52	207	1	0.09	3	630	3	0.11	<2	2	23
K917294		<10	<1	0.46	20	0.58	211	1	0.09	4	690	3	0.19	<2	3	23
K917295		10	<1	0.24	20	0.60	150	2	0.06	4	610	3	0.43	3	4	16
K917296		10	<1	0.20	20	0.60	117	2	0.06	4	610	3	0.61	2	5	14
K917297		10	<1	0.41	20	0.76	125	1	0.09	5	620	4	0.69	<2	5	24
K917298		<10	<1	0.27	20	0.49	137	2	0.07	4	460	4	0.27	<2	3	19
K917299		<10	<1	0.41	20	0.62	117	2	0.07	4	580	3	0.48	<2	5	17
K917300		<10	<1	0.29	<10	0.55	734	228	0.05	21	700	73	2.08	4	2	53
K917301		10	<1	0.49	20	0.67	140	1	0.08	4	580	3	0.63	<2	5	19
K917302		<10	<1	0.40	20	0.60	153	1	0.08	4	560	3	0.39	2	4	20
K917303		<10	<1	0.45	20	0.59	183	1	0.08	4	600	4	0.21	2	3	20
K917304		10	<1	0.51	20	0.64	145	1	0.09	4	600	4	0.50	3	4	21
K917305		10	<1	0.52	20	0.66	164	1	0.08	4	580	4	0.42	<2	4	23
K917306		10	<1	0.48	20	0.63	138	2	0.08	4	580	3	0.45	<2	4	20
K917307		10	<1	0.47	20	0.67	112	1	0.08	5	580	4	0.69	<2	5	20
K917308		10	<1	0.28	20	0.62	93	1	0.06	4	590	3	0.74	<2	4	19
K917309		10	<1	0.45	20	0.69	123	1	0.08	5	650	5	0.69	2	5	27
K917310		<10	<1	<0.01	<10	0.51	97	<1	0.01	<1	60	2	0.01	<2	<1	83
K917311		<10	<1	0.42	20	0.61	114	2	0.06	4	590	3	0.55	<2	4	26
K917312		<10	<1	0.26	20	0.21	59	3	0.01	3	430	3	1.72	4	1	10
K917313		<10	<1	0.27	10	0.12	35	2	0.01	3	400	<2	2.64	7	<1	6
K917314		<10	<1	0.31	10	0.10	39	3	0.01	2	420	2	3.46	9	1	7
K917315		<10	<1	0.28	10	0.14	33	2	0.01	2	410	2	2.28	6	1	6
K917316		<10	<1	0.26	20	0.11	57	10	0.01	4	560	6	1.29	4	2	14
K917317		<10	<1	0.18	20	0.25	77	5	0.02	4	560	4	0.64	3	3	53
K917318		<10	<1	0.27	10	0.11	68	3	<0.01	2	360	6	2.37	6	1	18
K917319		<10	<1	0.29	20	0.11	38	3	0.01	3	410	3	2.18	2	1	5
K917320		<10	<1	0.09	<10	0.52	381	359	0.07	31	480	5	0.57	2	4	35
K917321		<10	<1	0.29	20	0.25	53	3	0.01	2	400	3	1.64	3	1	10
K917322		10	<1	0.35	20	0.63	89	1	0.06	4	580	4	0.74	<2	4	31
K917323		10	<1	0.30	20	0.59	84	1	0.05	5	600	3	0.84	3	4	29
K917324		10	<1	0.28	20	0.61	93	2	0.05	4	580	4	0.84	<2	4	28
K917325		<10	1	0.20	20	0.57	85	1	0.04	4	620	3	0.85	<2	3	26
K917326		<10	<1	0.18	20	0.39	82	1	0.04	4	570	5	0.92	<2	3	28
K917327		<10	<1	0.18	20	0.32	74	1	0.04	3	580	4	0.47	<2	3	28
K917328		<10	<1	0.21	20	0.48	88	1	0.05	4	450	5	0.57	<2	3	23
K917329		<10	<1	0.20	20	0.46	97	1	0.05	4	450	5	0.47	<2	3	22

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917290		<20	<0.01	<10	<10	1	<10	4
K917291		20	0.14	<10	10	45	<10	16
K917292		20	0.13	<10	<10	46	<10	14
K917293		20	0.14	<10	<10	47	<10	16
K917294		20	0.15	<10	10	53	<10	17
K917295		20	0.10	<10	10	47	10	15
K917296		20	0.09	<10	10	45	30	14
K917297		20	0.11	<10	<10	50	<10	19
K917298		20	0.08	<10	<10	35	<10	14
K917299		20	0.12	<10	<10	47	<10	14
K917300		<20	0.04	<10	<10	30	<10	442
K917301		20	0.13	<10	10	50	<10	14
K917302		20	0.11	<10	10	44	<10	13
K917303		20	0.14	<10	10	46	<10	14
K917304		20	0.14	<10	10	49	<10	13
K917305		20	0.14	<10	<10	48	<10	13
K917306		20	0.13	<10	10	46	<10	13
K917307		20	0.12	<10	10	49	<10	12
K917308		20	0.06	<10	<10	46	10	13
K917309		20	0.07	<10	10	51	10	15
K917310		<20	<0.01	<10	<10	<1	<10	<2
K917311		20	0.06	<10	10	42	<10	13
K917312		<20	<0.01	<10	<10	10	<10	11
K917313		<20	<0.01	<10	<10	4	<10	5
K917314		<20	<0.01	<10	<10	3	<10	5
K917315		<20	<0.01	<10	<10	4	<10	6
K917316		20	<0.01	<10	<10	7	<10	13
K917317		20	<0.01	<10	<10	17	<10	11
K917318		<20	<0.01	<10	<10	2	<10	8
K917319		<20	<0.01	<10	<10	4	<10	6
K917320		<20	0.10	<10	<10	46	30	57
K917321		<20	0.01	<10	<10	9	<10	9
K917322		20	0.04	<10	<10	44	<10	11
K917323		20	0.02	<10	<10	42	<10	13
K917324		20	0.03	<10	<10	42	<10	12
K917325		20	0.01	<10	<10	37	<10	13
K917326		20	0.01	<10	<10	35	<10	13
K917327		20	<0.01	<10	<10	28	<10	10
K917328		20	0.04	<10	10	35	<10	11
K917329		20	0.06	<10	<10	36	<10	12

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917330		0.66	<0.005	0.2	0.01	<2	<10	20	<0.5	3	>25.0	<0.5	<1	<1	1	0.06
K917331		7.14	0.226	0.6	1.01	<2	<10	120	<0.5	3	0.71	<0.5	7	10	258	2.54
K917332		7.80	0.156	0.5	1.23	4	<10	60	<0.5	<2	0.95	<0.5	7	10	257	2.54
K917333		7.16	0.329	1.1	0.82	14	<10	50	0.5	8	1.16	<0.5	7	7	592	2.51
K917334		7.14	0.084	0.4	0.83	22	<10	40	0.6	<2	1.51	<0.5	6	7	215	2.21
K917335		5.58	0.058	0.6	0.92	20	<10	70	<0.5	11	0.94	<0.5	6	10	320	2.41
K917336		5.68	0.108	0.4	0.95	2	<10	110	<0.5	4	0.84	<0.5	6	11	235	2.41
K917337		5.54	0.046	1.3	1.10	4	<10	60	<0.5	6	0.82	<0.5	15	9	755	3.65
K917338		5.02	0.038	0.7	0.99	48	<10	60	<0.5	7	1.12	<0.5	7	9	408	2.67
K917339		6.82	0.058	0.4	0.64	19	<10	70	<0.5	5	1.06	<0.5	5	7	246	2.03
K917340		0.08	0.337	2.6	1.69	26	10	60	<0.5	2	0.80	2.0	11	28	2450	4.37
K917341		6.64	0.180	0.7	0.61	326	<10	40	0.7	36	1.96	<0.5	10	7	367	3.65
K917342		6.62	0.034	0.4	1.22	20	<10	180	<0.5	2	1.02	<0.5	10	11	228	3.05
K917343		6.92	0.027	0.6	0.65	40	<10	30	<0.5	4	1.30	<0.5	7	7	275	2.22
K917344		6.82	0.043	0.3	0.51	94	<10	60	<0.5	3	1.32	<0.5	6	7	170	2.14
K917345		6.88	0.035	0.4	0.87	158	<10	150	<0.5	3	0.96	<0.5	6	11	209	2.48
K917346		6.84	0.040	0.3	0.82	283	<10	160	<0.5	6	0.94	<0.5	6	8	148	1.98
K917347		6.50	0.199	0.5	0.73	697	<10	100	<0.5	8	1.21	<0.5	8	9	256	2.52
K917348		7.08	0.047	0.4	0.76	521	<10	110	<0.5	4	0.88	<0.5	7	10	178	2.38
K917349		7.08	0.051	0.4	0.68	367	<10	90	<0.5	5	0.97	<0.5	5	9	147	1.92
K917350		0.50	<0.005	0.2	0.03	2	<10	10	<0.5	3	>25.0	<0.5	<1	1	1	0.08
K917351		6.10	0.032	0.3	0.76	683	<10	70	<0.5	5	1.20	<0.5	5	8	143	1.84
K917352		6.80	0.626	0.5	0.60	32	<10	40	<0.5	6	1.21	<0.5	7	7	327	2.09
K917353		6.50	0.036	0.2	0.81	64	<10	110	<0.5	2	0.90	<0.5	6	9	135	1.95
K917354		7.12	0.113	0.3	0.79	5	<10	140	<0.5	<2	0.74	<0.5	5	9	165	1.81
K917355		6.28	0.024	0.3	0.88	7	<10	130	<0.5	4	0.87	<0.5	6	10	158	2.17
K917356		6.60	0.052	0.5	0.74	503	<10	120	<0.5	6	1.25	<0.5	7	8	277	2.18
K917357		7.00	0.032	0.2	0.84	17	<10	190	<0.5	2	0.64	<0.5	6	10	151	1.93
K917358		6.26	0.152	0.4	0.76	72	<10	100	<0.5	3	0.90	<0.5	5	9	244	1.79
K917359		6.70	0.813	0.5	0.74	1315	<10	90	<0.5	10	0.93	<0.5	7	9	295	2.00
K917360		0.08	0.353	2.6	1.69	28	<10	60	<0.5	2	0.82	2.0	11	29	2460	4.36
K917361		6.76	0.056	0.4	0.77	277	<10	140	<0.5	6	0.78	<0.5	6	8	231	1.81
K917362		6.70	0.026	0.2	0.83	4	<10	190	<0.5	5	0.70	<0.5	6	10	117	1.93
K917363		6.26	0.025	0.4	0.81	120	<10	160	<0.5	5	0.77	<0.5	6	9	225	1.89
K917364		6.26	0.031	0.4	0.39	287	<10	50	<0.5	6	0.92	<0.5	3	7	220	1.18
K917365		4.58	0.020	0.2	0.45	62	<10	60	<0.5	2	0.87	<0.5	4	6	126	1.28
K917366		5.52	0.027	0.2	0.57	168	<10	90	0.5	2	1.08	<0.5	6	8	146	2.01
K917367		6.24	0.031	0.3	0.51	56	<10	80	0.6	3	1.17	<0.5	7	7	219	2.00
K917368		6.88	0.106	0.7	0.47	321	<10	20	0.8	13	0.92	0.5	4	5	405	1.60
K917369		6.58	0.015	0.2	0.46	55	<10	30	0.8	<2	1.51	<0.5	4	5	106	1.22

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917330		<10	<1	<0.01	<10	0.36	85	<1	0.01	<1	70	<2	<0.01	<2	<1	92
K917331		10	<1	0.34	20	0.69	102	1	0.06	4	620	5	0.73	<2	5	24
K917332		10	<1	0.30	20	0.74	100	1	0.08	9	600	3	0.66	4	4	33
K917333		<10	<1	0.21	20	0.44	93	1	0.03	6	660	5	0.93	3	3	37
K917334		<10	<1	0.22	20	0.45	94	1	0.04	7	600	4	0.68	3	3	54
K917335		<10	<1	0.21	20	0.54	92	2	0.05	3	600	4	0.75	3	3	30
K917336		10	<1	0.32	20	0.62	105	1	0.06	4	640	4	0.62	3	4	27
K917337		10	<1	0.27	20	0.59	94	1	0.04	8	580	3	1.79	3	3	23
K917338		10	<1	0.28	20	0.63	113	1	0.05	4	620	3	0.75	<2	4	34
K917339		<10	<1	0.23	20	0.46	135	1	0.04	3	450	4	0.44	2	3	50
K917340		<10	<1	0.29	<10	0.54	724	233	0.05	22	690	72	2.04	<2	2	53
K917341		<10	<1	0.20	40	0.71	190	28	0.01	6	920	7	1.15	13	6	100
K917342		10	<1	0.50	30	0.84	156	1	0.06	6	720	3	0.76	3	5	37
K917343		<10	<1	0.15	20	0.39	99	1	0.03	4	590	4	0.73	4	3	49
K917344		<10	<1	0.17	20	0.45	111	1	0.03	4	580	5	0.65	4	3	55
K917345		<10	<1	0.33	30	0.54	149	1	0.07	4	960	5	0.55	<2	4	39
K917346		<10	<1	0.30	20	0.50	166	2	0.06	3	480	8	0.37	2	3	38
K917347		<10	<1	0.22	20	0.50	172	1	0.04	4	610	9	0.58	3	4	56
K917348		<10	<1	0.26	20	0.52	170	2	0.05	4	540	5	0.60	<2	4	38
K917349		<10	<1	0.21	20	0.41	137	1	0.04	3	440	6	0.42	2	3	43
K917350		<10	1	0.01	<10	0.73	79	<1	0.01	1	80	2	<0.01	2	<1	87
K917351		<10	<1	0.18	20	0.42	155	1	0.04	3	410	7	0.39	2	3	51
K917352		<10	<1	0.20	10	0.30	90	1	0.03	3	390	6	0.30	2	2	45
K917353		<10	<1	0.26	10	0.48	130	1	0.05	3	440	5	0.44	2	3	34
K917354		<10	<1	0.30	10	0.50	109	2	0.06	3	410	4	0.40	2	3	28
K917355		<10	1	0.32	20	0.54	130	4	0.06	4	490	4	0.50	<2	4	37
K917356		<10	<1	0.28	20	0.52	163	10	0.04	5	510	7	0.57	3	3	42
K917357		<10	<1	0.33	20	0.55	161	1	0.06	3	470	5	0.39	<2	3	28
K917358		<10	<1	0.23	10	0.47	114	3	0.05	2	450	6	0.48	<2	3	31
K917359		<10	<1	0.22	10	0.44	120	1	0.04	3	410	6	0.69	3	3	33
K917360		<10	<1	0.29	<10	0.54	763	232	0.05	20	690	73	2.08	3	2	53
K917361		<10	<1	0.26	10	0.49	138	1	0.05	3	430	6	0.46	2	3	29
K917362		<10	<1	0.34	20	0.56	185	35	0.06	3	490	6	0.37	2	3	28
K917363		<10	<1	0.31	10	0.53	132	1	0.05	3	450	5	0.51	2	3	42
K917364		<10	<1	0.17	10	0.25	91	2	0.02	2	260	6	0.35	2	1	50
K917365		<10	<1	0.18	10	0.27	111	1	0.04	2	290	6	0.33	2	2	47
K917366		<10	<1	0.23	20	0.46	164	1	0.03	2	480	7	0.53	3	3	52
K917367		<10	<1	0.21	20	0.47	123	42	0.01	3	410	8	0.80	4	2	57
K917368		<10	<1	0.23	10	0.28	78	1	<0.01	2	330	21	0.49	3	1	52
K917369		<10	<1	0.24	20	0.46	117	1	<0.01	2	370	17	0.49	4	2	62

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917330		<20	<0.01	<10	<10	<1	<10	<2
K917331		20	0.11	<10	<10	51	<10	15
K917332		20	0.07	<10	10	48	<10	14
K917333		20	0.01	<10	<10	34	<10	24
K917334		20	0.01	<10	10	25	<10	13
K917335		20	0.02	<10	<10	44	<10	15
K917336		20	0.08	<10	<10	51	<10	14
K917337		20	0.03	<10	<10	40	<10	20
K917338		20	0.03	<10	10	44	<10	19
K917339		20	0.02	<10	<10	28	<10	16
K917340		<20	0.04	<10	<10	30	<10	429
K917341		30	0.01	<10	<10	32	<10	20
K917342		30	0.08	<10	10	56	<10	17
K917343		20	<0.01	<10	<10	30	<10	12
K917344		20	0.01	<10	<10	22	<10	12
K917345		20	0.05	<10	<10	41	<10	16
K917346		20	0.05	<10	<10	35	<10	17
K917347		20	0.03	<10	<10	40	<10	21
K917348		20	0.04	<10	10	40	<10	16
K917349		20	0.03	<10	10	28	<10	14
K917350		<20	<0.01	<10	<10	<1	<10	<2
K917351		20	0.02	<10	10	26	<10	15
K917352		20	<0.01	<10	10	14	<10	10
K917353		20	0.04	<10	10	30	<10	13
K917354		20	0.06	<10	10	33	<10	12
K917355		20	0.05	<10	<10	37	<10	13
K917356		20	0.04	<10	10	30	<10	20
K917357		20	0.10	<10	10	37	20	15
K917358		20	0.05	<10	10	30	10	15
K917359		20	0.04	<10	10	27	<10	17
K917360		<20	0.06	<10	<10	30	<10	433
K917361		20	0.06	<10	10	31	10	16
K917362		20	0.09	<10	10	39	50	16
K917363		20	0.06	<10	<10	33	<10	15
K917364		20	<0.01	<10	10	6	<10	14
K917365		20	0.01	<10	10	13	<10	10
K917366		20	0.02	<10	10	21	<10	15
K917367		20	<0.01	<10	10	13	<10	15
K917368		20	<0.01	<10	10	3	<10	25
K917369		20	<0.01	<10	10	5	<10	11

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917370		0.48	<0.005	0.2	0.03	<2	<10	10	<0.5	2	>25.0	<0.5	<1	1	2	0.09
K917371		6.26	0.033	<0.2	0.70	15	<10	40	0.9	<2	0.98	<0.5	4	4	110	1.70
K917372		7.28	0.017	0.4	0.59	724	<10	30	0.6	11	1.39	<0.5	7	5	228	2.08
K917373		3.98	0.055	0.3	0.41	2800	<10	40	0.5	9	1.60	<0.5	11	4	238	2.19
K917374		4.98	0.068	<0.2	0.49	20	<10	60	0.5	<2	0.98	<0.5	8	6	116	1.63
K917375		6.22	0.011	0.2	0.31	774	<10	60	<0.5	3	1.04	<0.5	4	6	174	1.49
K917376		6.58	0.016	0.3	0.55	360	<10	80	<0.5	2	0.91	<0.5	5	7	182	1.88
K917377		6.24	0.025	0.5	0.49	1155	<10	110	<0.5	20	0.93	<0.5	5	8	265	1.96
K917378		6.56	0.011	<0.2	0.58	8	<10	70	<0.5	<2	0.86	<0.5	5	8	122	1.72
K917379		6.64	0.019	<0.2	0.56	25	<10	60	<0.5	<2	1.04	<0.5	4	7	128	1.76
K917380		0.08	0.763	3.3	1.20	15	10	110	<0.5	<2	0.76	<0.5	10	46	8070	2.57
K917381		6.26	0.227	0.2	0.36	544	<10	30	<0.5	23	1.09	<0.5	4	6	133	1.31
K917382		4.66	0.083	0.2	0.55	2900	<10	50	<0.5	8	0.97	<0.5	6	8	168	1.82
K917383		4.96	0.143	0.2	0.68	98	<10	40	<0.5	11	0.99	<0.5	4	8	167	1.64
K917384		6.22	0.027	0.3	0.75	291	<10	70	<0.5	12	1.14	<0.5	5	8	220	1.88
K917385		6.42	0.010	<0.2	0.70	<2	<10	90	<0.5	2	0.90	<0.5	4	8	104	1.67
K917386		6.64	0.017	<0.2	0.69	4	<10	80	<0.5	<2	0.79	<0.5	4	9	92	1.60
K917387		6.70	0.031	<0.2	0.53	6	<10	70	<0.5	<2	0.67	<0.5	4	8	73	1.49
K917388		6.88	0.028	<0.2	0.33	12	<10	50	<0.5	<2	0.71	<0.5	4	6	79	1.49
K917389		6.32	0.011	0.2	0.43	28	<10	80	<0.5	2	0.79	<0.5	7	6	193	2.42
K917390		0.40	<0.005	0.2	0.02	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	1	0.06
K917391		6.62	0.015	<0.2	0.68	22	<10	60	0.5	2	0.97	<0.5	4	7	101	1.56
K917392		6.28	0.011	0.3	0.56	12	<10	50	0.6	<2	1.10	<0.5	5	5	152	1.85
K917393		6.10	0.050	0.4	0.58	8	<10	50	0.5	10	0.82	<0.5	5	5	198	1.64
K917394		3.90	0.009	0.3	0.77	8	<10	50	0.6	<2	1.00	<0.5	5	6	178	1.70
K917395		4.94	0.020	0.6	0.55	336	<10	50	0.7	5	1.16	<0.5	4	6	188	2.08
K917396		5.32	0.026	0.4	0.56	275	<10	80	0.9	7	1.46	<0.5	4	5	220	1.79
K917397		4.82	0.014	0.3	0.58	65	<10	30	1.0	4	1.72	<0.5	5	5	190	1.44
K917398		5.68	0.012	0.3	0.49	63	<10	40	0.8	2	1.37	<0.5	3	5	88	1.17
K917399		6.62	0.015	0.3	0.58	97	<10	40	0.7	5	2.38	<0.5	4	4	244	1.76
K917400		0.08	0.378	2.5	1.66	25	10	60	<0.5	<2	0.79	2.1	10	28	2460	4.35
K917401		5.76	0.024	<0.2	0.60	26	<10	50	0.7	3	1.19	<0.5	5	5	135	1.40
K917402		4.88	0.008	0.2	0.58	14	<10	30	0.8	<2	1.22	<0.5	4	6	106	1.55
K917403		4.86	0.018	0.3	0.78	16	<10	80	0.5	<2	0.83	<0.5	6	7	213	1.95
K917404		6.40	0.011	0.3	0.85	7	<10	120	<0.5	2	0.80	<0.5	7	8	183	2.06
K917405		6.64	0.018	0.2	0.83	4	<10	130	<0.5	<2	0.73	<0.5	5	9	82	1.77
K917406		6.42	0.007	<0.2	0.74	2	<10	130	<0.5	<2	0.61	<0.5	4	7	90	1.58
K917407		6.64	0.009	0.2	0.65	28	<10	50	0.5	2	1.07	<0.5	4	6	129	1.44
K917408		6.56	0.049	0.3	0.84	<2	<10	90	<0.5	9	0.95	<0.5	5	8	183	1.92
K917409		6.82	0.019	0.4	0.85	63	<10	120	<0.5	<2	0.78	<0.5	6	11	255	2.02

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917370		<10	<1	0.01	<10	0.97	96	<1	<0.01	<1	60	<2	<0.01	<2	<1	88
K917371		<10	<1	0.16	20	0.34	76	1	0.01	3	380	9	0.46	<2	2	49
K917372		<10	1	0.16	10	0.46	110	1	0.01	3	410	13	0.82	2	2	64
K917373		<10	1	0.18	10	0.49	117	2	0.01	3	420	8	1.08	4	2	66
K917374		<10	<1	0.20	20	0.33	97	1	0.04	3	350	6	0.54	<2	2	54
K917375		<10	1	0.17	10	0.30	127	2	0.02	2	310	7	0.49	<2	1	60
K917376		<10	<1	0.22	20	0.42	159	2	0.04	3	440	5	0.61	<2	3	49
K917377		<10	<1	0.21	20	0.40	153	2	0.03	4	430	11	0.66	<2	2	52
K917378		<10	1	0.20	20	0.38	124	1	0.04	3	390	6	0.53	<2	2	41
K917379		<10	1	0.20	20	0.39	135	3	0.04	3	390	6	0.49	<2	2	47
K917380		<10	<1	0.10	<10	0.54	398	379	0.08	33	510	7	0.62	<2	4	38
K917381		<10	<1	0.16	10	0.22	99	2	0.03	3	270	8	0.60	<2	1	57
K917382		<10	<1	0.18	10	0.31	116	1	0.04	2	330	9	0.77	2	2	49
K917383		<10	1	0.15	10	0.34	125	1	0.04	3	340	7	0.57	<2	2	40
K917384		<10	<1	0.19	20	0.38	163	1	0.04	3	380	8	0.60	<2	2	41
K917385		<10	<1	0.21	10	0.42	125	7	0.04	3	390	6	0.44	<2	3	33
K917386		<10	1	0.20	20	0.40	124	1	0.05	3	370	6	0.41	<2	2	33
K917387		<10	1	0.17	20	0.32	131	1	0.05	2	320	6	0.34	<2	2	41
K917388		<10	<1	0.14	10	0.27	130	1	0.04	2	320	6	0.37	<2	2	62
K917389		<10	<1	0.19	30	0.39	184	1	0.04	4	480	6	0.73	<2	3	55
K917390		<10	1	<0.01	<10	0.40	106	<1	<0.01	<1	70	2	<0.01	<2	<1	88
K917391		<10	<1	0.25	10	0.37	136	1	0.03	1	340	9	0.42	<2	2	61
K917392		<10	<1	0.21	10	0.30	114	1	0.03	5	340	8	0.53	2	2	64
K917393		<10	<1	0.22	10	0.27	85	1	0.04	3	340	6	0.55	<2	2	65
K917394		<10	<1	0.22	10	0.39	110	2	0.03	2	380	8	0.49	3	2	70
K917395		<10	<1	0.30	10	0.26	97	1	0.01	2	310	17	1.70	15	1	52
K917396		<10	1	0.29	10	0.47	150	2	0.01	3	340	18	1.03	9	2	71
K917397		<10	1	0.29	10	0.56	153	1	0.01	3	380	20	0.48	4	2	98
K917398		<10	<1	0.24	10	0.46	112	1	0.01	3	300	17	0.41	6	2	82
K917399		<10	<1	0.24	10	0.83	158	1	<0.01	2	330	15	0.70	5	2	92
K917400		<10	1	0.28	<10	0.54	713	226	0.05	22	690	71	2.02	2	2	52
K917401		<10	<1	0.19	10	0.36	125	1	0.01	3	370	19	0.42	3	2	77
K917402		<10	<1	0.24	10	0.38	159	2	0.01	3	370	11	0.38	2	2	82
K917403		<10	<1	0.27	10	0.28	115	1	0.05	3	390	4	0.67	2	2	51
K917404		<10	1	0.34	10	0.42	138	1	0.06	4	400	5	0.60	<2	3	42
K917405		<10	<1	0.31	20	0.44	171	1	0.08	3	380	6	0.31	<2	3	36
K917406		<10	<1	0.29	10	0.36	143	1	0.08	3	300	5	0.31	<2	2	31
K917407		<10	<1	0.20	10	0.25	103	2	0.04	3	240	9	0.45	3	1	51
K917408		<10	<1	0.24	10	0.37	143	1	0.05	3	380	5	0.50	3	2	49
K917409		<10	<1	0.33	10	0.42	184	1	0.06	4	390	5	0.51	<2	3	41

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917370		<20	<0.01	<10	<10	<1	<10	<2
K917371		20	<0.01	<10	20	8	<10	12
K917372		20	<0.01	<10	10	7	<10	13
K917373		20	<0.01	<10	10	5	20	14
K917374		20	0.01	<10	10	11	<10	10
K917375		20	<0.01	<10	10	7	<10	12
K917376		20	0.01	<10	10	18	<10	15
K917377		20	0.01	<10	10	16	10	18
K917378		20	0.02	<10	10	20	<10	13
K917379		20	0.01	<10	10	20	<10	14
K917380		<20	0.11	<10	<10	50	30	58
K917381		20	<0.01	<10	10	7	<10	9
K917382		20	0.01	<10	10	14	<10	12
K917383		20	0.01	<10	10	20	10	13
K917384		20	0.02	<10	10	21	<10	17
K917385		20	0.03	<10	10	26	<10	13
K917386		20	0.02	<10	10	26	<10	12
K917387		20	0.02	<10	10	21	<10	12
K917388		20	<0.01	<10	10	11	<10	12
K917389		30	0.02	<10	10	21	10	18
K917390		<20	<0.01	<10	<10	<1	<10	<2
K917391		20	0.01	<10	10	13	10	12
K917392		20	<0.01	<10	10	8	<10	14
K917393		20	<0.01	<10	10	8	<10	12
K917394		20	<0.01	<10	10	13	<10	17
K917395		20	<0.01	<10	10	3	<10	20
K917396		20	<0.01	<10	10	5	<10	18
K917397		20	<0.01	<10	10	7	<10	17
K917398		20	<0.01	<10	<10	6	<10	12
K917399		20	<0.01	<10	10	4	<10	13
K917400		<20	0.04	<10	<10	29	<10	426
K917401		20	<0.01	<10	10	5	<10	15
K917402		20	<0.01	<10	10	6	<10	11
K917403		20	0.01	<10	10	16	<10	13
K917404		20	0.04	<10	10	27	<10	14
K917405		20	0.06	<10	10	30	<10	14
K917406		20	0.04	<10	10	24	<10	12
K917407		20	<0.01	<10	10	14	<10	11
K917408		20	0.02	<10	10	22	<10	14
K917409		20	0.04	<10	10	26	<10	19

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917410		0.60	<0.005	0.2	0.02	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	1	0.06
K917411		6.64	0.005	0.2	0.85	4	<10	70	<0.5	2	0.98	<0.5	5	8	121	1.87
K917412		6.48	0.014	0.3	0.85	6	<10	60	0.5	4	0.98	<0.5	6	8	246	1.99
K917413		6.66	0.045	0.8	0.60	40	<10	50	0.5	15	1.32	<0.5	5	5	358	1.93
K917414		6.16	0.008	<0.2	0.69	14	<10	50	0.5	<2	1.25	<0.5	4	6	91	2.03
K917415		5.96	0.017	0.2	0.59	40	<10	40	0.6	<2	1.54	<0.5	5	5	125	1.81
K917416		6.82	0.039	1.4	0.49	129	<10	90	0.5	99	2.50	0.5	4	5	360	2.32
K917417		6.30	0.035	0.3	0.66	80	<10	40	0.5	2	1.13	<0.5	7	7	211	2.22
K917418		6.56	0.081	0.2	0.66	16	<10	50	0.5	13	1.38	<0.5	6	6	132	2.09
K917419		6.40	0.033	0.2	0.63	11	<10	30	0.6	2	1.42	<0.5	7	4	187	2.22
K917420		0.08	0.354	2.6	1.67	24	<10	60	<0.5	2	0.79	1.9	10	28	2470	4.38
K917421		5.86	0.017	0.5	0.70	38	<10	40	0.8	10	1.70	<0.5	10	5	271	2.72
K917422		6.94	<0.005	<0.2	0.72	30	<10	60	0.7	<2	1.30	<0.5	5	5	68	2.03
K917423		6.54	0.057	<0.2	0.79	10	<10	100	0.6	<2	1.21	<0.5	6	9	73	2.21
K917424		6.88	0.005	0.2	0.75	15	<10	90	0.6	3	1.58	<0.5	6	7	102	2.29
K917425		6.20	0.008	<0.2	0.79	6	<10	100	0.5	3	1.08	<0.5	7	9	131	2.37
K917426		6.54	<0.005	<0.2	0.78	7	<10	80	0.7	4	1.01	<0.5	6	7	143	2.32
K917427		6.08	0.055	0.3	0.92	104	<10	40	0.8	8	0.99	<0.5	7	6	255	2.56
K917428		6.42	0.011	0.5	0.51	249	<10	40	0.9	23	2.77	<0.5	6	4	256	3.00
K917429		5.64	0.077	1.2	0.50	54	<10	240	0.6	74	1.59	<0.5	8	6	751	2.24
K917430		0.44	<0.005	<0.2	0.03	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	3	0.07
K917431		5.44	0.021	0.7	0.49	215	<10	40	0.8	4	1.83	<0.5	8	4	490	3.01
K917432		6.62	0.010	0.2	0.56	75	<10	50	0.9	4	1.74	<0.5	6	6	195	1.87
K917433		6.22	0.010	<0.2	0.60	41	<10	40	0.7	3	1.99	<0.5	5	5	103	2.14
K917434		6.28	<0.005	<0.2	0.59	11	<10	40	0.9	<2	1.61	<0.5	5	5	84	1.92
K917435		6.66	0.013	0.2	0.67	11	<10	80	0.5	2	1.12	<0.5	6	7	146	2.19
K917436		6.36	0.011	0.2	0.69	4	<10	70	<0.5	7	0.98	<0.5	5	7	135	2.09
K917437		6.40	<0.005	0.2	0.87	6	<10	70	0.5	2	1.08	<0.5	5	9	87	2.29
K917438		6.42	0.009	<0.2	0.68	10	<10	50	0.5	<2	1.37	<0.5	5	7	106	2.23
K917439		6.22	0.038	0.2	0.84	3	<10	100	<0.5	13	0.96	<0.5	5	9	172	2.29
K917440		0.08	0.321	2.6	1.64	28	<10	60	<0.5	2	0.82	2.1	10	29	2500	4.36
K917441		6.72	0.015	0.3	0.61	35	<10	60	0.7	7	1.68	<0.5	5	7	209	2.10
K917442		6.06	0.110	0.3	0.60	180	<10	50	1.0	3	2.97	<0.5	6	5	178	1.98
K917443		5.42	0.140	0.6	0.55	117	<10	30	0.7	11	3.29	<0.5	8	4	384	2.19
K917444		4.74	0.018	0.4	0.57	63	<10	30	0.8	4	1.70	<0.5	9	4	302	2.00
K917445		6.88	0.017	0.2	0.58	195	<10	40	0.7	<2	2.58	<0.5	7	4	202	1.66
K917446		5.94	0.009	0.2	0.57	21	<10	70	0.6	2	1.38	<0.5	8	5	279	1.86
K917447		7.52	0.013	0.3	0.63	45	<10	70	0.9	4	1.85	<0.5	8	4	270	2.00
K917448		6.54	0.009	0.4	0.60	36	<10	60	0.7	2	1.27	<0.5	9	5	335	2.79
K917449		6.64	0.022	0.6	0.56	21	<10	50	0.6	14	1.02	<0.5	10	5	451	2.63

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917410		<10	1	<0.01	<10	0.45	72	<1	0.01	<1	60	<2	<0.01	<2	<1	78
K917411		<10	<1	0.21	20	0.40	154	1	0.06	3	370	6	0.42	<2	3	52
K917412		<10	<1	0.24	10	0.34	129	1	0.05	2	370	5	0.65	2	2	62
K917413		<10	<1	0.31	10	0.36	157	1	0.03	3	360	17	0.77	4	2	65
K917414		<10	<1	0.23	20	0.38	166	1	0.04	3	370	7	0.50	4	2	62
K917415		<10	<1	0.24	20	0.37	179	1	0.03	3	390	8	0.72	5	2	72
K917416		<10	1	0.27	10	0.70	233	1	0.02	2	370	48	1.21	7	1	93
K917417		<10	<1	0.23	20	0.33	112	1	0.03	3	470	6	0.97	7	2	68
K917418		<10	<1	0.19	20	0.51	141	19	0.03	4	450	7	0.54	3	3	71
K917419		<10	<1	0.16	20	0.51	189	1	0.01	4	440	10	0.67	2	3	57
K917420		<10	<1	0.28	<10	0.54	717	221	0.05	21	690	71	2.04	2	2	52
K917421		<10	<1	0.21	20	0.57	186	1	0.01	5	500	17	0.92	4	3	102
K917422		<10	<1	0.21	20	0.47	184	1	0.02	3	520	6	0.44	2	3	95
K917423		<10	<1	0.23	20	0.39	204	3	0.07	4	500	5	0.40	2	4	86
K917424		<10	<1	0.24	20	0.62	205	1	0.04	4	500	7	0.56	3	3	111
K917425		<10	<1	0.21	20	0.48	221	2	0.06	4	540	5	0.51	<2	4	81
K917426		<10	1	0.20	20	0.37	217	1	0.06	4	530	5	0.43	2	4	74
K917427		<10	<1	0.23	20	0.34	98	1	0.01	4	510	7	1.06	7	2	96
K917428		<10	<1	0.28	10	0.76	280	1	<0.01	3	400	14	2.17	9	2	129
K917429		<10	<1	0.27	10	0.53	149	81	<0.01	4	450	12	1.11	3	2	86
K917430		<10	<1	0.01	<10	0.64	93	<1	<0.01	<1	60	<2	<0.01	<2	<1	86
K917431		<10	<1	0.27	10	0.60	249	5	<0.01	4	400	14	2.06	6	3	84
K917432		<10	<1	0.28	20	0.59	187	5	0.01	4	440	12	0.79	3	3	108
K917433		<10	<1	0.18	20	0.59	213	1	0.01	4	510	10	0.51	<2	4	118
K917434		<10	<1	0.24	20	0.52	193	1	0.01	4	510	11	0.39	<2	3	162
K917435		<10	<1	0.24	20	0.46	152	1	0.04	4	510	5	0.53	<2	3	84
K917436		<10	<1	0.19	20	0.45	149	1	0.05	3	460	5	0.47	<2	3	71
K917437		<10	<1	0.25	20	0.52	173	1	0.07	4	520	4	0.37	<2	4	72
K917438		<10	<1	0.18	20	0.48	173	1	0.05	3	520	5	0.36	<2	3	80
K917439		<10	<1	0.31	30	0.50	167	2	0.07	4	560	5	0.43	<2	4	54
K917440		<10	<1	0.28	<10	0.56	744	242	0.05	20	720	73	2.14	2	2	54
K917441		<10	<1	0.25	20	0.54	162	2	0.03	5	550	8	0.49	<2	3	85
K917442		<10	<1	0.31	20	0.82	189	1	0.01	4	530	10	0.75	2	3	124
K917443		<10	<1	0.31	10	1.03	155	316	<0.01	3	500	6	1.20	<2	2	138
K917444		<10	<1	0.30	20	0.50	84	7	<0.01	5	540	12	1.34	2	2	117
K917445		<10	<1	0.29	20	0.63	145	1	<0.01	3	530	8	0.87	<2	2	127
K917446		<10	<1	0.27	20	0.42	102	3	<0.01	4	580	5	0.94	2	2	81
K917447		<10	<1	0.29	20	0.44	111	1	<0.01	4	570	8	1.06	2	3	116
K917448		<10	<1	0.29	20	0.37	107	1	0.01	4	580	7	1.22	2	2	76
K917449		<10	<1	0.25	20	0.39	108	8	0.02	4	500	7	1.12	2	3	79

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917410		<20	<0.01	<10	<10	<1	<10	<2
K917411		20	0.02	<10	10	24	<10	14
K917412		20	0.01	<10	10	18	<10	14
K917413		20	<0.01	<10	10	7	20	22
K917414		20	<0.01	<10	10	17	<10	12
K917415		20	<0.01	<10	10	9	<10	11
K917416		20	<0.01	<10	10	5	<10	21
K917417		20	<0.01	<10	10	12	<10	17
K917418		20	0.01	<10	10	19	<10	13
K917419		20	<0.01	<10	<10	14	<10	15
K917420		<20	0.04	<10	<10	29	<10	431
K917421		30	<0.01	<10	10	12	<10	17
K917422		20	<0.01	<10	<10	17	<10	16
K917423		30	0.01	<10	<10	25	<10	17
K917424		20	0.01	<10	<10	24	<10	16
K917425		20	0.02	<10	<10	32	<10	15
K917426		<20	0.01	<10	<10	26	<10	17
K917427		30	<0.01	<10	10	13	<10	16
K917428		20	<0.01	<10	10	8	<10	14
K917429		20	<0.01	<10	<10	6	<10	19
K917430		<20	<0.01	<10	<10	<1	<10	<2
K917431		<20	<0.01	<10	10	9	<10	13
K917432		20	<0.01	<10	10	8	<10	16
K917433		20	<0.01	<10	10	17	<10	15
K917434		20	<0.01	<10	10	9	<10	12
K917435		20	0.01	<10	10	24	<10	12
K917436		20	0.01	<10	<10	27	<10	12
K917437		20	0.02	<10	10	34	<10	14
K917438		20	0.01	<10	10	26	<10	14
K917439		20	0.03	<10	10	34	<10	14
K917440		<20	0.04	<10	<10	31	<10	436
K917441		20	<0.01	<10	<10	18	<10	16
K917442		20	<0.01	<10	10	10	<10	19
K917443		20	<0.01	<10	<10	6	<10	13
K917444		20	<0.01	<10	10	7	<10	8
K917445		20	<0.01	<10	<10	7	<10	11
K917446		20	<0.01	<10	10	8	<10	8
K917447		20	<0.01	<10	10	9	<10	15
K917448		20	<0.01	<10	<10	12	<10	15
K917449		20	<0.01	<10	10	14	<10	19

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917450		0.44	<0.005	<0.2	0.03	<2	<10	10	<0.5	3	>25.0	<0.5	<1	1	3	0.07
K917451		6.74	0.096	0.7	0.53	7	<10	50	0.5	18	0.85	<0.5	9	7	387	2.50
K917452		5.92	0.014	0.4	0.75	13	<10	40	0.7	5	1.38	<0.5	10	6	304	2.90
K917453		5.84	0.023	0.7	0.61	25	<10	40	0.8	9	1.33	<0.5	10	4	438	2.68
K917454		7.02	0.015	0.6	0.58	20	<10	70	0.7	8	1.69	<0.5	6	4	253	1.71
K917455		7.28	0.019	0.3	0.58	22	<10	40	1.0	19	1.83	<0.5	7	5	354	2.10
K917456		5.48	0.009	0.4	0.55	18	<10	40	0.8	11	0.99	<0.5	8	5	338	2.30
K917457		4.92	0.367	0.8	0.49	354	<10	40	0.6	5	1.85	<0.5	11	4	467	3.22
K917458		6.60	0.013	0.5	0.53	43	<10	40	0.8	9	1.17	<0.5	11	5	360	2.78
K917459		7.60	0.014	0.9	0.58	18	<10	50	0.9	60	0.95	<0.5	10	6	415	2.77
K917460		0.04	0.334	2.7	1.66	28	<10	60	<0.5	<2	0.82	2.2	10	29	2530	4.45
K917461		7.44	0.014	0.4	0.60	36	<10	240	0.8	43	1.51	<0.5	8	4	293	2.59
K917462		6.50	<0.005	0.3	0.65	7	<10	80	0.5	5	1.06	<0.5	7	6	228	2.46
K917463		3.98	0.018	0.7	0.64	4	<10	140	<0.5	6	0.90	<0.5	9	6	367	2.63
K917464		6.10	<0.005	0.3	0.80	2	<10	100	<0.5	2	0.61	<0.5	9	9	213	2.60
K917465		6.38	0.005	0.3	0.75	<2	<10	70	<0.5	<2	0.60	<0.5	9	8	255	2.58
K917466		6.40	0.033	0.6	0.65	191	<10	60	0.7	5	1.30	<0.5	10	6	341	2.73
K917467		6.68	0.010	0.2	0.79	3	<10	100	<0.5	3	0.79	<0.5	7	8	163	2.32
K917468		6.48	<0.005	0.2	0.98	4	<10	110	<0.5	2	0.69	<0.5	7	9	198	2.55
K917469		6.60	0.752	0.7	0.90	33	<10	110	<0.5	8	0.93	<0.5	6	9	407	2.58
K917470		0.66	<0.005	<0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	2	0.05
K917471		6.82	0.012	0.3	0.79	14	<10	70	0.5	3	1.00	<0.5	7	8	269	2.59
K917472		6.86	0.006	0.7	0.72	16	<10	50	0.6	3	1.41	<0.5	8	6	421	2.76
K917473		6.30	<0.005	<0.2	0.97	7	<10	140	<0.5	2	0.86	<0.5	5	9	76	2.19
K917474		8.00	0.013	0.7	1.01	4	<10	160	<0.5	<2	0.95	<0.5	7	11	307	2.54
K917475		5.10	0.012	0.5	0.77	124	<10	80	0.5	6	1.28	<0.5	8	6	232	2.45
K917476		6.72	<0.005	0.2	0.97	4	<10	80	<0.5	3	1.04	<0.5	7	9	124	2.34
K917477		6.74	0.025	<0.2	1.05	2	<10	150	<0.5	3	1.07	<0.5	6	10	96	2.37
K917478		6.74	0.322	1.0	0.85	3	<10	130	<0.5	3	0.76	<0.5	5	8	94	1.92
K917479		6.32	0.005	<0.2	1.11	23	<10	120	0.5	<2	1.06	<0.5	6	8	112	2.27
K917480		0.04	0.324	2.5	1.58	26	<10	60	<0.5	3	0.78	2.0	10	27	2410	4.20
K917481		5.70	0.032	0.3	0.75	61	<10	150	0.7	4	1.85	<0.5	7	5	223	2.36
K917482		2.56	0.006	0.3	0.75	6	<10	50	0.9	<2	1.80	<0.5	5	5	182	2.35
K917483		4.46	0.033	0.2	0.93	20	<10	150	0.9	3	1.51	<0.5	7	5	160	2.49
K917484		3.18	0.007	0.3	0.73	40	<10	50	0.6	4	1.33	<0.5	9	5	238	2.34
K917485		4.96	0.005	0.3	0.74	77	<10	40	0.7	5	1.41	<0.5	8	5	244	2.55
K917486		6.30	0.056	0.7	0.52	154	<10	70	0.6	7	1.26	<0.5	8	4	438	2.93
K917487		5.06	0.443	1.4	0.44	1615	<10	60	0.6	69	4.38	<0.5	6	5	638	3.32
K917488		4.40	0.019	0.4	0.61	252	<10	40	0.9	5	2.48	<0.5	8	5	284	2.55
K917489		4.06	0.038	0.7	0.72	117	<10	110	1.2	7	2.29	<0.5	19	2	860	4.90

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917450		<10	<1	0.01	<10	0.44	94	<1	<0.01	<1	70	3	<0.01	<2	<1	82
K917451		<10	<1	0.31	20	0.34	104	6	0.02	4	460	8	0.98	2	2	61
K917452		<10	<1	0.29	20	0.53	128	3	0.01	5	700	7	0.96	<2	3	121
K917453		<10	<1	0.32	20	0.51	122	1	0.01	4	530	10	1.07	2	2	163
K917454		<10	<1	0.28	10	0.40	105	4	<0.01	4	430	10	0.73	2	1	152
K917455		<10	<1	0.30	30	0.56	179	1	0.01	4	570	10	0.61	2	3	139
K917456		<10	<1	0.28	20	0.37	110	1	0.01	4	570	7	0.95	<2	2	90
K917457		<10	<1	0.30	10	0.65	179	1	0.01	4	450	12	1.77	6	2	92
K917458		<10	<1	0.32	20	0.42	119	1	0.01	4	560	10	1.29	2	2	99
K917459		<10	<1	0.31	20	0.36	115	1	0.01	4	550	15	1.22	<2	2	115
K917460		<10	<1	0.28	<10	0.56	747	241	0.05	22	720	75	2.14	2	2	55
K917461		<10	<1	0.29	20	0.48	132	1	0.01	4	510	9	1.02	2	2	134
K917462		<10	<1	0.20	20	0.45	109	2	0.03	4	520	7	0.80	<2	3	107
K917463		<10	<1	0.23	20	0.52	122	1	0.04	5	550	8	0.92	<2	3	77
K917464		<10	<1	0.27	20	0.55	121	1	0.07	7	540	6	0.81	<2	3	51
K917465		<10	<1	0.25	20	0.47	110	1	0.07	4	480	5	0.94	<2	3	50
K917466		<10	<1	0.24	20	0.47	151	1	0.02	5	510	12	1.04	5	3	86
K917467		<10	<1	0.27	20	0.52	133	1	0.07	4	520	5	0.60	<2	3	47
K917468		<10	<1	0.31	30	0.57	130	1	0.07	4	530	4	0.76	<2	4	47
K917469		<10	<1	0.32	20	0.55	162	1	0.06	4	550	6	0.77	<2	4	47
K917470		<10	<1	<0.01	<10	0.39	75	<1	0.01	<1	70	<2	<0.01	<2	<1	81
K917471		<10	<1	0.31	30	0.53	122	1	0.05	5	570	6	0.87	<2	3	58
K917472		<10	<1	0.23	30	0.57	137	3	0.04	4	550	6	1.10	<2	3	89
K917473		<10	<1	0.35	20	0.53	192	1	0.10	4	530	5	0.31	<2	4	55
K917474		<10	<1	0.44	20	0.59	205	1	0.08	5	600	5	0.61	<2	4	54
K917475		<10	<1	0.24	20	0.48	144	4	0.05	5	540	7	0.91	9	3	63
K917476		<10	<1	0.28	20	0.56	176	1	0.08	4	550	5	0.47	<2	4	59
K917477		<10	1	0.38	20	0.60	227	1	0.09	5	580	6	0.36	<2	4	60
K917478		<10	<1	0.35	20	0.48	154	1	0.08	3	440	6	0.39	<2	3	40
K917479		<10	<1	0.35	20	0.52	125	1	0.06	4	550	4	0.41	<2	4	73
K917480		<10	<1	0.28	<10	0.53	716	232	0.05	20	680	70	2.04	<2	2	52
K917481		<10	<1	0.17	20	0.60	133	2	0.01	3	520	7	0.77	2	3	81
K917482		<10	<1	0.23	20	0.57	123	1	0.02	4	520	6	0.58	<2	3	130
K917483		<10	<1	0.20	20	0.49	114	<1	0.02	4	540	6	0.69	2	3	116
K917484		<10	<1	0.17	30	0.45	155	1	0.01	4	590	7	0.94	2	4	68
K917485		<10	<1	0.16	20	0.46	167	1	0.01	4	590	8	0.84	4	4	67
K917486		<10	<1	0.26	10	0.39	119	3	0.01	4	490	11	1.94	15	2	62
K917487		<10	<1	0.24	10	1.56	525	2	0.01	3	390	22	1.76	57	2	108
K917488		<10	<1	0.28	10	0.82	210	1	0.01	4	530	12	1.71	10	3	105
K917489		<10	<1	0.34	10	0.76	201	1	0.01	5	1050	5	2.57	6	7	147

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917450		<20	<0.01	<10	<10	<1	<10	<2
K917451		20	<0.01	<10	10	10	<10	15
K917452		20	<0.01	<10	10	12	<10	14
K917453		20	<0.01	<10	<10	7	<10	18
K917454		20	<0.01	<10	10	6	<10	14
K917455		20	<0.01	<10	10	10	<10	17
K917456		20	<0.01	<10	10	8	<10	17
K917457		20	<0.01	<10	10	7	<10	18
K917458		20	<0.01	<10	10	7	<10	13
K917459		20	<0.01	<10	10	7	<10	13
K917460		<20	0.04	<10	<10	31	<10	435
K917461		20	<0.01	<10	10	7	<10	18
K917462		20	<0.01	<10	10	20	<10	14
K917463		20	0.01	<10	<10	23	<10	18
K917464		20	0.02	<10	10	31	<10	16
K917465		20	0.01	<10	<10	25	<10	14
K917466		20	<0.01	<10	10	15	<10	22
K917467		20	0.03	<10	10	32	<10	13
K917468		20	0.04	<10	<10	38	<10	13
K917469		20	0.03	<10	10	35	<10	26
K917470		<20	<0.01	<10	<10	<1	<10	<2
K917471		20	0.01	<10	<10	27	<10	16
K917472		20	<0.01	<10	<10	22	<10	19
K917473		20	0.07	<10	<10	40	<10	15
K917474		20	0.08	<10	<10	42	<10	21
K917475		20	0.01	<10	10	25	30	16
K917476		20	0.03	<10	10	40	<10	15
K917477		20	0.07	<10	10	43	<10	18
K917478		20	0.06	<10	10	33	<10	13
K917479		20	0.05	<10	10	38	<10	14
K917480		<20	0.04	<10	<10	29	<10	412
K917481		20	<0.01	<10	10	17	<10	17
K917482		20	<0.01	<10	10	10	<10	14
K917483		20	<0.01	<10	10	12	<10	15
K917484		20	<0.01	<10	10	19	<10	17
K917485		20	<0.01	<10	10	18	<10	17
K917486		<20	<0.01	<10	<10	7	<10	23
K917487		<20	<0.01	<10	<10	8	<10	39
K917488		20	<0.01	<10	10	12	<10	15
K917489		<20	<0.01	<10	<10	18	<10	22

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917490		0.40	<0.005	<0.2	0.04	2	<10	20	<0.5	2	>25.0	<0.5	<1	<1	5	0.09
K917491		6.04	0.242	0.5	0.97	206	<10	50	1.4	9	1.81	<0.5	10	2	391	4.00
K917492		5.68	0.021	0.5	0.64	239	<10	60	0.9	2	1.84	<0.5	8	4	394	2.90
K917493		5.28	0.024	0.6	0.73	38	<10	110	1.0	7	1.37	<0.5	11	4	564	3.75
K917494		2.72	0.023	0.5	0.70	78	<10	50	1.0	5	2.17	<0.5	9	4	432	2.98
K917495		5.24	0.017	0.2	0.63	258	<10	50	0.8	3	2.37	<0.5	6	5	200	2.20
K917496		2.96	0.039	0.7	0.70	11	<10	80	0.5	2	1.41	<0.5	5	5	440	2.14
K917497		2.40	0.114	2.1	0.71	59	<10	30	0.8	26	1.52	0.6	9	4	1110	2.16
K917498		5.22	0.083	0.7	0.30	926	<10	100	<0.5	53	6.25	<0.5	3	4	335	2.73
K917499		5.12	0.100	1.9	0.34	823	<10	150	0.5	121	3.52	0.6	4	5	954	3.20
K917500		0.04	0.324	2.7	1.67	29	10	70	<0.5	<2	0.83	2.3	10	29	2530	4.39
K917501		3.08	0.097	1.6	0.61	100	<10	190	0.9	50	2.08	0.5	10	5	959	3.17
K917502		3.24	0.066	2.8	0.59	809	<10	70	0.8	25	2.10	0.9	10	4	1470	5.90
K917503		5.24	0.037	0.8	0.78	51	<10	70	0.7	40	1.83	<0.5	9	5	470	2.65
K917504		4.70	0.051	1.6	0.97	28	<10	100	0.7	161	1.41	0.6	9	5	876	2.69
K917505		5.42	0.031	1.7	1.01	71	<10	130	0.7	11	1.52	0.6	8	6	699	2.72
K917506		4.90	0.034	0.9	1.06	14	<10	60	0.6	2	1.25	<0.5	7	7	568	2.52
K917507		4.90	0.020	0.3	0.68	13	<10	60	0.6	5	1.70	<0.5	9	6	240	2.34

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917490		<10	<1	0.01	<10	0.36	99	<1	<0.01	<1	60	<2	0.02	<2	<1	87
K917491		<10	<1	0.22	20	0.58	247	1	0.01	3	1190	9	1.75	19	10	122
K917492		<10	<1	0.26	10	0.47	205	3	0.01	8	810	4	1.79	20	3	108
K917493		<10	<1	0.26	10	0.44	152	2	0.01	8	790	5	2.06	6	3	98
K917494		<10	<1	0.28	10	0.61	181	3	0.01	8	780	8	1.55	9	3	128
K917495		<10	<1	0.27	10	0.68	250	46	0.01	3	520	12	0.94	13	3	93
K917496		<10	<1	0.21	10	0.44	158	1	<0.01	4	530	6	0.82	2	3	69
K917497		<10	<1	0.28	10	0.46	131	1	0.01	6	570	12	1.14	5	3	80
K917498		<10	1	0.17	<10	1.06	374	3	0.01	2	220	9	1.60	39	2	121
K917499		<10	<1	0.17	<10	1.28	233	3	<0.01	4	230	12	1.74	31	2	75
K917500		<10	1	0.29	<10	0.56	752	241	0.05	21	710	75	2.14	<2	2	55
K917501		<10	<1	0.30	10	0.68	160	3	0.01	7	750	10	1.60	8	3	89
K917502		<10	<1	0.33	10	0.73	194	3	0.01	6	670	15	4.80	51	3	80
K917503		<10	<1	0.37	20	0.60	145	2	0.01	4	590	6	1.01	4	2	85
K917504		<10	<1	0.26	20	0.52	114	1	0.01	5	630	14	1.04	4	4	81
K917505		<10	<1	0.23	20	0.52	110	1	0.02	4	610	9	0.83	5	3	89
K917506		<10	<1	0.26	20	0.50	107	2	0.04	4	590	6	0.76	2	3	75
K917507		<10	<1	0.20	30	0.40	135	2	0.04	4	600	5	0.83	<2	3	89

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917490		<20	<0.01	<10	<10	<1	<10	4
K917491		<20	<0.01	<10	<10	25	<10	18
K917492		<20	<0.01	<10	<10	12	<10	14
K917493		<20	<0.01	<10	<10	11	<10	14
K917494		<20	<0.01	<10	<10	11	<10	10
K917495		20	<0.01	<10	<10	13	<10	15
K917496		20	<0.01	<10	<10	13	<10	21
K917497		20	<0.01	<10	10	8	<10	35
K917498		<20	<0.01	10	<10	6	<10	20
K917499		<20	<0.01	10	10	6	<10	43
K917500		<20	0.04	<10	<10	31	<10	436
K917501		<20	<0.01	<10	<10	10	<10	29
K917502		<20	<0.01	20	<10	10	<10	54
K917503		20	<0.01	<10	<10	10	<10	19
K917504		20	<0.01	<10	<10	18	<10	35
K917505		20	<0.01	<10	<10	17	<10	33
K917506		20	0.01	<10	<10	25	<10	28
K917507		20	<0.01	<10	<10	22	<10	14

Comments: **Corrected copy on Au- AA23 for samples K917391 to K917409, K917491 to K917507 and on ME- ICP41 on samples K917371 to K917389**

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149537

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au- AA23	CRU- 31	CRU- QC	LOG- 21
LOG- 23	ME- ICP41	PUL- 35	PUL- QC
SPL- 21	WEI- 21		

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CERTIFICATE WH17149538

Project: Freegold Mountain Project

P.O. No.: 1005139- NOFREG- - R1

This report is for 190 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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1111 MELVILLE STREET
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I026178		5.60	0.019	0.4	0.60	56	<10	600	1.1	2	4.36	<0.5	7	4	178	2.80
I026179		4.42	<0.005	0.2	1.07	11	<10	250	1.2	<2	3.14	<0.5	8	6	71	3.36
I026180		0.04	0.333	2.8	1.70	29	10	60	<0.5	2	0.86	2.1	10	29	2460	4.49
I026181		4.04	0.012	0.5	0.93	9	<10	150	0.7	<2	2.11	<0.5	7	7	147	3.17
I026182		5.04	<0.005	0.3	0.92	4	<10	230	<0.5	<2	1.76	<0.5	8	9	96	3.06
I026183		4.68	0.030	1.3	1.30	7	<10	380	<0.5	<2	1.18	1.1	9	12	370	3.35
I026184		4.46	0.025	0.3	1.19	11	<10	360	<0.5	<2	1.37	<0.5	7	11	84	3.12
I026185		4.48	0.036	0.4	1.23	10	<10	370	<0.5	<2	1.29	<0.5	10	11	138	3.25
I026186		4.16	0.068	1.2	1.12	72	<10	260	0.6	2	1.74	4.5	9	10	162	3.45
I026187		4.66	0.014	0.3	0.56	26	<10	210	0.8	<2	3.50	<0.5	8	5	125	2.96
I026188		4.14	0.022	0.7	0.90	52	<10	60	0.8	2	1.64	<0.5	14	6	253	3.79
I026189		3.96	0.086	1.4	0.81	57	<10	120	0.8	8	1.88	1.9	17	6	354	4.44
I026190		0.36	<0.005	<0.2	0.04	2	<10	20	<0.5	3	>25.0	<0.5	<1	<1	1	0.08
I026191		4.66	0.012	0.2	0.72	88	<10	140	0.9	<2	2.47	<0.5	8	6	93	3.04
I026192		4.30	0.017	0.2	1.00	58	<10	160	0.7	<2	2.68	<0.5	10	8	151	3.29
I026193		4.38	0.026	0.6	1.37	80	<10	220	0.7	<2	1.41	<0.5	10	10	245	3.05
I026194		4.44	0.011	0.2	1.07	39	<10	130	0.7	<2	1.67	<0.5	9	8	112	3.11
I026195		4.82	0.026	0.4	0.77	27	<10	230	0.7	<2	2.59	0.5	9	7	128	3.37
I026196		3.94	0.005	0.2	0.68	20	<10	390	0.8	<2	2.40	<0.5	9	6	85	2.84
I026197		5.30	0.036	0.4	0.65	752	<10	110	1.0	<2	3.38	<0.5	8	4	164	3.22
I026198		5.08	0.034	0.2	0.67	50	<10	510	1.1	2	3.12	<0.5	8	4	132	2.60
I026199		4.22	0.018	0.9	0.94	35	<10	270	0.9	<2	1.76	<0.5	8	7	325	2.84
I026200		0.04	0.300	2.7	1.70	28	10	60	<0.5	3	0.86	2.1	10	29	2470	4.44
I026201		4.46	0.019	0.3	0.86	30	<10	130	0.5	<2	1.48	<0.5	8	8	157	3.01
I026202		4.70	<0.005	0.6	0.67	14	<10	110	<0.5	2	1.88	<0.5	7	8	200	3.03
I026203		4.48	0.191	2.7	0.94	55	<10	80	0.5	2	1.34	0.5	7	8	1180	2.63
I026204		4.54	0.069	1.2	1.63	8	<10	160	0.5	4	1.56	<0.5	9	10	478	3.04
I026205		4.56	0.057	2.0	1.24	470	<10	110	0.9	<2	1.57	<0.5	9	8	828	3.20
I026206		4.62	0.027	0.8	1.01	19	<10	230	0.5	<2	1.67	<0.5	13	9	399	3.76
I026207		1.68	0.015	1.1	1.14	6	<10	130	<0.5	16	1.43	<0.5	11	9	445	3.45
I026208		7.60	0.070	0.8	1.16	23	<10	150	<0.5	10	1.57	<0.5	12	11	475	3.73
I026209		4.32	0.039	1.0	0.55	65	<10	40	0.8	<2	4.11	<0.5	12	5	566	3.73
I026210		0.44	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.08
I026211		4.36	0.006	<0.2	1.01	31	<10	120	0.7	<2	1.87	<0.5	9	9	69	3.21
I026212		4.16	<0.005	<0.2	1.60	23	<10	280	0.8	<2	1.01	<0.5	10	11	96	3.43
I026213		4.28	0.046	1.0	2.11	72	<10	100	1.3	2	1.26	<0.5	10	11	605	4.13
I026214		2.90	0.053	0.9	2.26	127	<10	140	1.4	<2	0.86	<0.5	14	13	605	4.73
I026215		6.88	0.286	0.8	0.38	2230	<10	480	<0.5	5	0.11	2.6	12	4	401	2.46
I026216		8.36	0.223	1.8	0.32	1125	<10	120	<0.5	28	0.08	1.1	7	3	175	5.34
I026217		8.22	0.946	2.9	0.33	506	<10	110	<0.5	56	0.08	<0.5	5	3	214	5.48

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026178		<10	<1	0.24	20	1.50	387	41	0.04	4	750	13	0.37	<2	7	255
I026179		<10	<1	0.23	20	1.20	386	3	0.05	5	820	6	0.28	<2	7	229
I026180		<10	<1	0.29	<10	0.57	757	233	0.06	21	710	75	2.15	<2	2	56
I026181		<10	<1	0.25	20	0.98	326	20	0.07	5	850	10	0.38	<2	7	144
I026182		<10	<1	0.36	20	0.95	351	10	0.08	6	880	4	0.18	<2	7	126
I026183		<10	<1	0.64	20	1.03	289	15	0.11	6	880	25	0.45	<2	7	83
I026184		<10	<1	0.60	20	0.94	301	11	0.11	6	890	10	0.17	<2	6	82
I026185		<10	<1	0.63	20	0.97	293	11	0.13	7	910	4	0.40	<2	7	92
I026186		<10	<1	0.42	20	1.02	285	19	0.06	6	900	261	0.74	<2	7	158
I026187		<10	<1	0.18	20	1.21	302	15	0.03	6	820	9	0.53	<2	7	269
I026188		<10	<1	0.14	30	0.80	282	23	0.03	9	1040	12	1.15	<2	8	86
I026189		<10	<1	0.17	20	0.90	312	88	0.03	7	990	128	1.59	<2	8	131
I026190		<10	<1	0.01	<10	0.86	88	<1	0.01	<1	70	<2	0.01	<2	<1	90
I026191		<10	<1	0.17	20	0.94	321	23	0.03	6	910	10	0.76	<2	8	161
I026192		<10	<1	0.24	30	0.94	283	67	0.05	6	940	6	0.38	<2	8	205
I026193		10	<1	0.42	30	0.91	192	92	0.08	7	910	6	0.45	<2	7	147
I026194		<10	<1	0.28	30	0.80	251	20	0.05	7	970	7	0.32	<2	8	127
I026195		<10	<1	0.13	20	1.04	320	18	0.02	7	910	38	0.43	<2	8	172
I026196		<10	<1	0.14	20	0.91	296	13	0.02	7	960	7	0.35	<2	9	129
I026197		<10	<1	0.19	10	1.19	278	5	0.04	5	770	7	1.50	11	6	274
I026198		<10	<1	0.25	20	1.09	275	30	0.04	5	820	5	0.59	<2	7	226
I026199		<10	<1	0.25	20	0.85	181	7	0.05	5	920	6	0.50	<2	7	196
I026200		<10	<1	0.30	<10	0.57	765	240	0.06	21	700	74	2.15	<2	2	56
I026201		<10	<1	0.33	30	0.85	189	20	0.08	7	880	5	0.43	<2	7	110
I026202		<10	<1	0.23	20	0.96	253	3	0.08	5	830	5	0.51	<2	7	118
I026203		<10	<1	0.36	20	0.81	152	9	0.09	6	810	6	0.65	<2	6	108
I026204		10	<1	0.74	20	1.19	156	27	0.15	8	820	8	0.66	<2	7	99
I026205		10	1	0.42	20	1.02	170	61	0.08	5	970	6	0.63	9	8	142
I026206		<10	<1	0.54	20	1.07	195	16	0.10	6	980	5	0.94	<2	8	125
I026207		10	<1	0.56	20	1.18	198	5	0.10	6	990	8	0.78	<2	8	90
I026208		10	<1	0.57	20	1.19	176	24	0.10	6	990	5	0.87	<2	8	96
I026209		<10	<1	0.17	10	1.62	290	109	0.03	4	900	9	1.01	<2	7	179
I026210		<10	<1	<0.01	<10	0.41	89	1	0.01	<1	70	<2	<0.01	<2	<1	89
I026211		<10	<1	0.34	20	0.87	231	9	0.06	5	990	7	0.25	<2	8	141
I026212		10	<1	0.71	20	0.99	181	60	0.09	6	1030	4	0.45	<2	7	106
I026213		10	<1	0.54	30	1.54	186	102	0.05	6	1110	6	0.52	<2	8	134
I026214		10	<1	0.59	30	1.43	147	77	0.05	8	1060	4	0.52	2	8	106
I026215		<10	<1	0.32	20	0.04	126	5	0.02	3	510	51	0.32	3	4	82
I026216		<10	<1	1.03	10	0.03	59	112	0.03	1	530	181	1.70	4	2	131
I026217		<10	<1	1.00	10	0.03	45	79	0.03	1	570	332	1.68	3	2	128

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026178		<20	<0.01	<10	<10	24	<10	28
I026179		<20	<0.01	<10	<10	32	<10	29
I026180		<20	0.04	<10	<10	32	<10	434
I026181		<20	0.02	<10	<10	40	30	42
I026182		<20	0.06	<10	<10	54	<10	22
I026183		20	0.15	<10	<10	75	10	90
I026184		<20	0.15	<10	<10	73	<10	25
I026185		<20	0.15	<10	<10	74	10	23
I026186		20	0.07	<10	<10	58	10	361
I026187		<20	<0.01	<10	<10	28	<10	22
I026188		20	0.01	<10	<10	39	<10	30
I026189		20	<0.01	<10	<10	32	<10	158
I026190		<20	<0.01	<10	<10	<1	<10	<2
I026191		<20	<0.01	<10	<10	32	<10	24
I026192		<20	0.02	<10	<10	50	<10	22
I026193		<20	0.06	<10	<10	58	<10	28
I026194		20	0.03	<10	<10	52	<10	22
I026195		20	<0.01	<10	<10	43	<10	60
I026196		<20	<0.01	<10	<10	35	<10	18
I026197		<20	<0.01	<10	<10	23	<10	17
I026198		<20	<0.01	<10	<10	23	<10	17
I026199		20	0.01	<10	<10	37	<10	27
I026200		<20	0.05	<10	<10	32	<10	435
I026201		<20	0.03	<10	<10	45	10	21
I026202		<20	0.02	<10	<10	45	<10	22
I026203		<20	0.03	<10	10	43	<10	43
I026204		<20	0.09	<10	<10	71	<10	35
I026205		<20	0.03	<10	<10	52	<10	41
I026206		<20	0.08	<10	<10	57	<10	27
I026207		<20	0.07	<10	<10	66	<10	36
I026208		<20	0.08	<10	<10	65	<10	27
I026209		<20	<0.01	<10	10	35	<10	31
I026210		<20	<0.01	<10	<10	1	<10	<2
I026211		20	0.06	<10	<10	60	<10	21
I026212		<20	0.16	<10	10	80	<10	22
I026213		20	0.08	<10	<10	68	<10	29
I026214		20	0.10	<10	<10	81	<10	25
I026215		<20	<0.01	<10	<10	10	30	97
I026216		<20	<0.01	<10	<10	6	430	51
I026217		<20	<0.01	<10	<10	6	450	66

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I026218		8.66	0.520	2.0	0.35	417	<10	270	<0.5	14	0.08	0.5	11	3	289	3.39
I026219		7.56	2.50	2.0	0.26	532	<10	70	<0.5	20	0.07	<0.5	3	2	160	5.72
I026220		0.06	0.337	2.7	1.68	32	10	60	<0.5	2	0.85	2.3	11	30	2550	4.63
I026221		7.94	2.04	3.2	0.33	1355	<10	310	<0.5	53	0.10	0.8	7	3	440	2.97
I026222		8.66	0.994	4.2	0.57	2250	<10	470	<0.5	75	0.14	2.7	26	4	1875	4.57
I026223		7.38	0.962	4.2	0.34	1335	<10	270	<0.5	62	0.11	3.6	6	4	668	3.49
I026224		7.84	1.170	2.9	0.32	529	<10	340	<0.5	35	0.09	1.4	3	3	255	2.76
I026225		8.86	0.249	1.2	0.63	440	<10	360	<0.5	4	0.14	1.6	55	4	1535	2.54
I026226		7.98	1.495	0.6	0.43	133	<10	210	<0.5	2	0.19	1.7	67	3	1365	2.28
I026227		7.92	0.240	0.6	0.44	149	<10	590	<0.5	3	0.12	2.3	58	4	969	2.63
I026228		8.80	1.115	1.3	0.45	79	<10	430	<0.5	8	0.11	2.3	63	4	766	3.03
I026229		8.08	0.164	0.8	0.54	98	<10	380	<0.5	4	0.18	3.1	181	4	989	2.63
I026230		0.30	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	1	<1	6	0.09
I026231		8.96	1.005	1.4	0.52	182	<10	500	<0.5	11	0.14	3.1	34	4	627	3.45
I026232		9.04	1.340	1.9	0.50	118	<10	150	<0.5	8	0.24	1.8	43	4	1240	2.78
I026233		9.34	1.260	3.2	0.47	51	<10	330	<0.5	5	0.28	3.3	58	4	1120	2.92
I026234		7.94	0.296	0.7	0.46	94	<10	150	<0.5	2	0.34	5.0	64	4	525	2.70
I026235		7.96	0.318	0.8	0.64	113	<10	200	<0.5	3	0.21	4.4	51	4	883	2.49
I026236		8.56	0.448	1.8	0.56	149	<10	450	<0.5	3	0.16	3.2	59	4	1265	3.50
I026237		7.56	0.387	0.5	0.50	395	<10	240	<0.5	3	0.24	2.5	56	3	363	3.21
I026238		7.72	0.147	0.8	0.51	332	<10	280	<0.5	4	0.17	3.1	65	4	541	3.22
I026239		8.30	0.155	0.8	0.55	78	<10	240	<0.5	3	0.16	5.4	76	4	422	3.29
I026240		0.06	0.345	3.0	1.78	31	10	70	<0.5	3	0.90	2.3	11	31	2630	4.77
I026241		8.60	0.147	1.0	0.43	63	<10	260	<0.5	4	0.23	2.0	55	3	377	3.00
I026242		8.36	0.299	1.1	0.42	25	<10	320	<0.5	5	0.68	2.7	61	3	344	2.90
I026243		8.44	0.552	1.3	0.58	59	<10	250	<0.5	4	0.27	2.4	117	4	1370	3.62
I026244		9.44	0.671	2.5	0.34	44	<10	120	<0.5	9	0.62	4.1	162	4	1150	4.46
I026245		8.90	0.489	4.1	0.41	38	<10	240	<0.5	13	0.48	2.4	45	4	1550	3.03
I026246		9.12	0.586	2.4	0.37	127	<10	110	<0.5	7	0.65	1.9	60	4	949	3.54
I026247		3.12	1.155	2.4	0.38	103	<10	200	<0.5	5	0.60	2.8	16	3	900	2.53
I026248		3.38	0.078	1.0	0.36	417	<10	270	<0.5	4	0.79	2.1	43	3	120	2.66
I026249		5.34	0.234	1.7	0.37	144	<10	190	<0.5	7	0.88	2.6	38	3	667	2.75
I026250		0.34	<0.005	<0.2	0.02	3	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	6	0.09
I026251		6.28	0.059	1.5	0.37	55	<10	180	<0.5	5	1.15	1.8	29	3	209	2.60
I026252		5.94	0.101	3.0	0.37	74	<10	150	<0.5	4	1.28	0.8	29	3	445	2.75
I026253		5.74	0.065	2.8	0.41	65	<10	60	<0.5	7	1.48	1.1	41	4	1090	3.27
I026254		5.28	0.044	2.8	0.39	30	<10	350	<0.5	17	0.72	3.1	18	4	887	2.86
I026255		5.66	0.074	1.4	0.38	21	<10	320	<0.5	11	0.97	2.7	33	4	442	2.79
I026256		5.54	0.029	3.6	0.35	23	<10	110	<0.5	35	1.02	3.2	41	4	649	2.68
I026257		5.72	0.024	1.3	0.35	20	<10	200	<0.5	15	0.98	1.2	34	3	292	2.15

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I026218		<10	<1	0.59	10	0.03	51	36	0.02	2	580	115	0.85	<2	2	106
I026219		<10	<1	1.20	10	0.03	27	42	0.03	<1	610	119	1.96	<2	1	159
I026220		<10	<1	0.29	<10	0.58	757	234	0.06	21	740	76	2.26	<2	2	56
I026221		<10	<1	0.52	20	0.03	47	98	0.02	1	480	125	0.71	3	2	94
I026222		<10	<1	0.32	30	0.03	146	41	0.02	5	610	153	0.37	8	4	92
I026223		<10	<1	0.52	10	0.03	67	15	0.01	1	520	304	0.72	7	2	166
I026224		<10	<1	0.54	10	0.03	51	13	0.02	1	480	118	0.76	<2	2	164
I026225		<10	<1	0.21	20	0.04	400	34	0.01	9	690	52	0.11	<2	3	71
I026226		<10	<1	0.21	20	0.04	510	34	0.01	7	670	25	0.18	<2	4	59
I026227		<10	<1	0.22	30	0.03	299	35	0.01	7	600	53	0.10	<2	4	77
I026228		<10	<1	0.34	20	0.04	307	38	0.01	7	590	44	0.27	<2	3	92
I026229		<10	<1	0.28	20	0.04	800	49	0.01	15	700	33	0.19	<2	4	61
I026230		<10	<1	0.01	<10	1.19	143	<1	0.01	<1	80	<2	<0.01	<2	<1	86
I026231		<10	<1	0.39	10	0.04	179	66	0.02	5	590	48	0.34	<2	4	111
I026232		<10	1	0.27	10	0.04	213	161	0.01	6	640	31	0.18	<2	4	73
I026233		<10	<1	0.26	10	0.06	671	310	0.01	5	700	35	0.46	<2	4	53
I026234		<10	<1	0.26	10	0.13	941	99	0.01	6	590	25	0.48	<2	4	73
I026235		<10	<1	0.27	10	0.05	524	76	0.01	6	590	24	0.28	2	4	64
I026236		<10	<1	0.32	10	0.04	353	128	0.01	8	620	61	0.52	2	6	82
I026237		<10	<1	0.35	10	0.06	198	100	0.01	7	600	27	1.02	3	4	92
I026238		<10	<1	0.28	10	0.04	182	54	0.01	7	560	37	0.49	2	4	78
I026239		<10	<1	0.29	10	0.04	162	107	0.01	7	550	56	0.85	2	5	81
I026240		<10	<1	0.30	<10	0.60	803	259	0.06	22	770	81	2.32	2	2	60
I026241		<10	<1	0.21	10	0.05	107	64	0.01	6	610	58	0.84	<2	4	63
I026242		<10	<1	0.22	10	0.35	339	28	0.01	4	630	42	0.81	<2	4	91
I026243		<10	<1	0.22	10	0.10	303	48	0.01	10	740	51	0.89	<2	4	57
I026244		<10	<1	0.18	10	0.47	926	35	0.01	9	720	47	1.38	<2	5	65
I026245		<10	<1	0.22	10	0.43	384	64	0.01	4	740	97	0.82	<2	4	48
I026246		<10	<1	0.21	10	0.34	357	55	0.01	4	740	92	1.70	<2	4	60
I026247		<10	<1	0.22	10	0.35	285	61	0.01	2	680	92	0.94	<2	4	59
I026248		<10	<1	0.21	10	0.33	333	73	0.01	2	760	70	0.89	<2	4	67
I026249		<10	<1	0.22	10	0.36	329	64	0.01	2	730	62	1.11	<2	4	72
I026250		<10	<1	0.01	<10	0.37	114	<1	0.01	<1	70	3	0.01	<2	<1	93
I026251		<10	<1	0.22	10	0.56	370	27	0.01	3	680	92	1.16	<2	4	87
I026252		<10	<1	0.22	10	0.60	363	35	0.01	4	690	33	1.26	<2	4	93
I026253		<10	<1	0.24	10	0.69	433	25	0.01	5	700	54	1.63	<2	4	113
I026254		<10	<1	0.22	10	0.53	389	3	0.01	6	720	53	0.61	<2	5	70
I026255		<10	<1	0.23	10	0.61	363	8	0.01	6	740	49	0.82	<2	4	88
I026256		<10	<1	0.20	10	0.61	345	112	0.01	7	700	89	0.98	3	4	84
I026257		<10	<1	0.21	10	0.52	277	3	0.01	4	630	44	0.94	2	4	79

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026218		<20	<0.01	<10	<10	8	400	72
I026219		<20	<0.01	<10	<10	4	90	32
I026220		<20	0.04	<10	<10	31	<10	440
I026221		<20	<0.01	<10	<10	6	280	69
I026222		<20	<0.01	<10	20	14	880	167
I026223		<20	<0.01	<10	10	7	150	91
I026224		<20	<0.01	<10	10	5	60	27
I026225		<20	<0.01	<10	10	9	20	166
I026226		<20	<0.01	<10	<10	8	10	167
I026227		<20	<0.01	<10	10	8	10	160
I026228		<20	<0.01	<10	10	10	<10	143
I026229		<20	<0.01	<10	<10	9	<10	215
I026230		<20	<0.01	<10	<10	1	<10	2
I026231		<20	<0.01	<10	10	9	10	105
I026232		<20	<0.01	<10	10	10	200	104
I026233		<20	<0.01	<10	<10	12	80	96
I026234		<20	<0.01	<10	<10	9	50	84
I026235		<20	<0.01	<10	10	10	80	81
I026236		<20	<0.01	<10	10	15	10	144
I026237		<20	<0.01	<10	<10	6	<10	80
I026238		<20	<0.01	<10	<10	8	10	118
I026239		<20	<0.01	<10	<10	8	<10	88
I026240		<20	0.05	<10	<10	34	<10	471
I026241		<20	<0.01	<10	<10	8	<10	131
I026242		<20	<0.01	<10	<10	8	<10	123
I026243		<20	<0.01	<10	10	10	<10	234
I026244		<20	<0.01	<10	<10	17	<10	238
I026245		<20	<0.01	<10	<10	9	<10	113
I026246		<20	<0.01	<10	<10	8	<10	165
I026247		<20	<0.01	<10	<10	8	10	108
I026248		<20	<0.01	<10	<10	8	<10	208
I026249		<20	<0.01	<10	<10	8	<10	124
I026250		<20	<0.01	<10	<10	<1	<10	3
I026251		<20	<0.01	<10	10	7	<10	131
I026252		<20	<0.01	<10	10	7	50	43
I026253		<20	<0.01	<10	10	9	80	62
I026254		<20	<0.01	<10	10	9	250	95
I026255		<20	<0.01	<10	10	8	50	158
I026256		<20	<0.01	<10	<10	9	50	108
I026257		<20	<0.01	<10	<10	7	20	49

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026258		6.38	0.014	1.3	0.34	10	<10	790	<0.5	17	0.89	1.6	11	3	117	1.84
I026259		6.00	0.029	1.4	0.31	38	<10	80	<0.5	19	0.96	2.1	56	3	271	2.72
I026260		0.06	0.320	2.8	1.75	29	10	70	<0.5	2	0.91	2.3	11	31	2600	4.71
I026261		6.16	0.014	2.5	0.34	22	<10	320	<0.5	52	1.07	1.5	24	3	418	2.39
I026262		5.94	0.007	1.6	0.34	22	<10	630	<0.5	35	0.96	1.4	8	3	229	2.03
I026263		5.74	0.026	0.7	0.36	28	<10	350	<0.5	13	1.06	0.7	26	3	144	2.35
I026264		5.96	0.029	0.6	0.36	15	<10	830	<0.5	5	0.89	0.7	10	3	164	2.00
I026265		5.74	0.059	0.9	0.39	128	<10	80	<0.5	5	1.10	0.5	13	4	254	2.85
I026266		6.02	0.072	0.6	0.33	106	<10	60	<0.5	4	0.98	0.8	18	4	255	2.91
I026267		6.22	0.130	1.7	0.36	463	<10	40	<0.5	22	0.97	1.1	32	3	310	3.32
I026268		5.52	0.166	1.3	0.33	631	<10	20	<0.5	15	0.93	<0.5	72	3	304	4.01
I026269		5.86	0.171	2.3	0.34	709	<10	30	<0.5	17	0.94	0.8	65	3	352	4.00
I026270		0.40	<0.005	<0.2	0.03	4	<10	30	<0.5	3	>25.0	<0.5	<1	1	2	0.08
I026271		5.74	0.077	2.3	0.34	382	<10	90	<0.5	16	1.01	1.0	38	3	285	3.03
I026272		5.78	0.038	1.8	0.34	232	<10	220	<0.5	12	1.12	1.3	11	3	214	2.62
I026273		5.76	0.051	1.9	0.35	187	<10	90	<0.5	13	1.12	2.7	15	3	320	2.94
I026274		5.80	0.088	1.9	0.34	359	<10	140	<0.5	14	1.10	3.1	27	3	326	2.79
I026275		5.70	0.073	2.7	0.36	173	<10	130	<0.5	38	1.19	1.9	19	3	282	2.64
I026276		5.84	0.026	2.1	0.33	133	<10	330	<0.5	21	1.24	1.5	22	3	181	2.25
I026277		6.00	0.065	0.7	0.32	178	<10	170	<0.5	4	0.96	1.5	43	3	189	2.33
I026278		4.28	0.070	1.3	0.32	210	<10	140	<0.5	9	1.15	2.1	35	3	165	2.48
I026279		3.10	0.065	0.8	0.31	598	<10	230	<0.5	5	1.09	1.0	47	3	151	2.43
I026280		0.04	0.337	2.8	1.66	28	10	60	<0.5	<2	0.82	2.0	11	29	2450	4.37
I026281		3.68	0.103	1.4	0.34	55	<10	40	<0.5	10	0.26	2.1	33	3	299	2.30
I026282		4.10	0.018	0.4	0.37	23	<10	250	0.5	<2	0.88	<0.5	23	3	79	2.73
I026283		4.52	0.063	0.9	0.28	30	<10	160	<0.5	13	0.73	<0.5	11	2	220	2.37
I026284		4.20	0.108	0.8	0.28	79	<10	130	<0.5	21	0.73	<0.5	44	3	207	2.38
I026285		4.72	0.017	0.7	0.29	13	<10	120	<0.5	12	0.69	<0.5	17	2	175	2.39
I026286		4.38	0.027	0.8	0.28	15	<10	230	<0.5	13	1.18	0.5	23	2	120	2.04
I026287		4.30	0.005	0.7	0.36	6	<10	110	<0.5	3	1.30	0.9	12	2	155	2.42
I026288		4.14	0.011	0.8	0.34	10	<10	120	<0.5	5	1.29	2.1	21	3	282	3.08
I026289		4.38	0.020	0.8	0.33	15	<10	90	<0.5	5	0.76	0.5	39	3	140	2.72
I026290		0.36	<0.005	<0.2	0.02	2	<10	40	<0.5	2	>25.0	<0.5	1	<1	4	0.12
I026291		4.48	0.059	1.2	0.31	35	<10	30	<0.5	5	0.60	0.6	50	3	227	2.97
I026292		4.76	0.040	2.0	0.33	21	<10	70	<0.5	13	1.08	3.8	51	4	317	2.91
I026293		2.96	0.068	1.8	0.35	20	<10	30	0.5	14	0.46	0.8	38	3	240	3.02
I026294		6.30	0.066	1.9	0.35	111	<10	30	0.5	20	0.55	0.7	48	3	200	3.09
I026295		5.34	0.036	2.0	0.36	39	<10	90	<0.5	11	0.89	2.0	31	4	207	2.88
I026296		5.84	0.050	3.4	0.35	210	<10	140	<0.5	25	0.87	4.3	22	3	286	2.74
I026297		5.30	0.118	3.0	0.34	291	<10	30	<0.5	24	0.47	1.2	39	3	205	2.36

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026258		<10	<1	0.22	10	0.55	272	6	0.01	2	610	81	0.30	<2	4	86
I026259		<10	<1	0.20	10	0.51	264	7	0.01	5	620	72	1.67	<2	4	76
I026260		<10	<1	0.30	<10	0.60	812	264	0.06	22	750	79	2.30	2	2	59
I026261		<10	<1	0.22	20	0.62	314	9	0.01	4	620	112	0.70	5	4	92
I026262		<10	<1	0.21	20	0.59	289	4	0.01	3	650	80	0.23	3	4	81
I026263		<10	<1	0.22	10	0.61	300	8	0.01	3	700	28	0.68	<2	4	84
I026264		<10	<1	0.21	10	0.54	254	5	0.01	3	670	26	0.29	<2	4	83
I026265		<10	<1	0.22	10	0.62	272	4	0.01	6	710	31	1.17	<2	4	86
I026266		<10	<1	0.20	10	0.60	272	5	0.01	5	670	17	1.15	<2	4	77
I026267		<10	<1	0.21	10	0.56	256	7	0.01	5	660	47	1.81	2	4	71
I026268		<10	<1	0.20	10	0.50	228	8	0.01	6	630	66	2.82	<2	4	68
I026269		<10	<1	0.20	10	0.50	234	61	0.01	5	630	130	2.75	<2	3	75
I026270		<10	<1	0.01	<10	0.47	83	<1	0.01	<1	70	3	<0.01	<2	<1	90
I026271		<10	<1	0.21	10	0.55	250	23	0.01	4	660	129	1.52	2	4	83
I026272		<10	<1	0.20	10	0.61	283	14	0.01	3	700	107	0.76	<2	4	95
I026273		<10	<1	0.21	10	0.64	292	10	0.01	5	680	116	1.15	2	4	94
I026274		<10	<1	0.20	10	0.61	291	12	0.01	5	680	108	1.11	<2	4	90
I026275		<10	<1	0.21	10	0.63	298	33	0.01	6	660	147	0.96	3	4	98
I026276		<10	1	0.19	10	0.65	295	6	0.01	4	620	138	0.55	2	4	101
I026277		<10	<1	0.19	10	0.54	251	6	0.01	3	610	52	0.91	<2	3	78
I026278		<10	1	0.18	10	0.61	280	19	0.01	4	630	88	0.95	<2	4	90
I026279		<10	<1	0.19	10	0.54	303	50	0.01	3	600	56	0.98	<2	4	75
I026280		<10	<1	0.28	<10	0.55	755	236	0.06	21	720	76	2.18	<2	2	53
I026281		<10	<1	0.19	10	0.14	107	774	0.01	8	470	75	2.12	3	1	38
I026282		<10	<1	0.21	10	0.57	357	200	0.01	7	520	17	1.01	<2	5	62
I026283		<10	<1	0.18	10	0.43	271	143	0.01	5	570	23	1.04	<2	4	67
I026284		<10	<1	0.19	10	0.35	219	374	0.01	5	520	32	1.56	<2	3	63
I026285		<10	<1	0.18	10	0.32	203	63	0.01	7	520	24	1.65	2	3	67
I026286		<10	<1	0.18	10	0.50	265	83	0.01	3	560	29	0.90	<2	3	80
I026287		<10	<1	0.22	10	0.71	384	8	0.01	3	560	39	0.42	<2	6	95
I026288		<10	<1	0.20	10	0.73	474	10	0.01	4	600	68	0.90	<2	6	93
I026289		<10	<1	0.19	10	0.46	299	19	0.01	4	630	55	1.30	<2	4	72
I026290		<10	1	0.02	<10	0.54	95	<1	0.01	<1	70	5	0.02	<2	1	80
I026291		<10	<1	0.19	10	0.36	258	119	0.01	10	590	63	1.95	<2	3	62
I026292		<10	<1	0.19	10	0.51	312	58	0.01	5	570	104	1.67	<2	4	82
I026293		<10	<1	0.20	10	0.32	259	23	0.01	6	570	84	2.04	<2	3	77
I026294		<10	<1	0.20	10	0.35	258	11	0.01	6	580	82	2.12	2	3	63
I026295		<10	<1	0.20	10	0.54	363	13	0.01	4	550	102	1.23	2	5	84
I026296		<10	<1	0.19	10	0.50	334	12	0.01	4	570	196	1.27	4	4	76
I026297		<10	<1	0.19	10	0.39	316	26	0.01	4	570	145	0.89	<2	4	65

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026258		<20	<0.01	<10	<10	6	20	118
I026259		<20	<0.01	<10	<10	6	30	130
I026260		<20	0.05	<10	<10	33	<10	466
I026261		<20	<0.01	<10	<10	7	30	106
I026262		<20	<0.01	<10	<10	6	10	105
I026263		<20	<0.01	<10	<10	7	20	56
I026264		<20	<0.01	<10	<10	6	<10	60
I026265		<20	<0.01	<10	<10	7	<10	51
I026266		<20	<0.01	<10	<10	7	40	49
I026267		<20	<0.01	<10	<10	7	30	42
I026268		<20	<0.01	<10	<10	6	<10	36
I026269		<20	<0.01	<10	<10	7	<10	54
I026270		<20	<0.01	<10	<10	<1	<10	<2
I026271		<20	<0.01	<10	<10	7	10	73
I026272		<20	<0.01	<10	<10	7	30	85
I026273		<20	<0.01	<10	<10	6	40	177
I026274		<20	<0.01	<10	<10	7	40	203
I026275		<20	<0.01	<10	10	7	20	123
I026276		<20	<0.01	<10	<10	7	<10	110
I026277		<20	<0.01	<10	<10	6	<10	108
I026278		<20	<0.01	<10	<10	6	<10	153
I026279		<20	<0.01	<10	<10	7	<10	69
I026280		<20	0.04	<10	<10	31	<10	433
I026281		<20	<0.01	<10	<10	5	10	103
I026282		<20	<0.01	<10	<10	10	<10	33
I026283		<20	<0.01	<10	<10	8	10	17
I026284		<20	<0.01	<10	<10	6	10	17
I026285		<20	<0.01	<10	<10	5	10	16
I026286		<20	<0.01	<10	<10	6	10	43
I026287		<20	<0.01	<10	<10	9	<10	80
I026288		<20	<0.01	<10	<10	12	10	143
I026289		<20	<0.01	<10	<10	7	10	44
I026290		<20	<0.01	<10	<10	<1	<10	4
I026291		<20	<0.01	<10	<10	9	10	63
I026292		<20	<0.01	<10	<10	9	<10	159
I026293		<20	<0.01	<10	<10	9	<10	69
I026294		<20	<0.01	<10	<10	8	10	54
I026295		<20	<0.01	<10	<10	10	10	136
I026296		<20	<0.01	<10	<10	10	10	279
I026297		<20	<0.01	<10	<10	9	10	85

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026298		5.66	0.016	3.2	0.35	41	<10	650	<0.5	10	0.39	4.9	11	5	563	1.91
I026299		5.64	0.029	4.3	0.36	10	<10	360	<0.5	31	1.18	3.8	7	4	470	2.27
I026300		0.06	0.327	2.8	1.74	29	10	60	<0.5	<2	0.87	2.3	10	31	2580	4.53
I026301		5.42	0.296	4.9	0.32	38	<10	230	<0.5	22	1.01	4.0	10	3	363	2.28
I026302		5.28	0.034	3.2	0.34	9	<10	560	<0.5	10	1.54	5.2	5	3	437	2.68
I026303		6.42	0.222	5.5	0.36	24	<10	350	0.5	31	0.73	6.0	22	3	407	2.21
I026304		5.38	0.195	2.8	0.35	19	<10	770	<0.5	17	0.99	2.3	12	3	309	1.97
I026305		5.88	0.047	1.3	0.33	34	<10	90	<0.5	14	0.45	<0.5	12	3	186	1.53
I026306		6.02	0.242	3.2	0.30	19	<10	330	<0.5	12	1.31	3.2	16	4	359	2.49
I026307		6.02	0.080	3.7	0.35	32	<10	310	<0.5	13	1.23	3.6	23	3	270	2.48
I026308		6.04	0.233	3.4	0.32	18	<10	300	<0.5	16	0.77	1.5	9	3	883	2.55
I026309		5.96	0.434	5.3	0.37	18	<10	410	<0.5	21	1.21	6.0	13	3	950	2.90
I026310		0.42	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	1	<1	5	0.09
I026311		6.00	0.136	5.0	0.38	21	<10	250	0.5	18	0.96	9.3	30	3	510	2.39
I026312		6.36	0.073	2.4	0.36	34	<10	200	<0.5	19	1.26	0.9	64	3	277	2.82
I026313		6.22	0.247	1.7	0.38	22	<10	130	<0.5	17	1.42	0.5	23	3	590	2.55
I026314		6.02	0.133	1.2	0.36	14	<10	460	<0.5	16	1.37	<0.5	20	3	385	2.17
I026315		6.24	0.323	4.5	0.36	33	<10	170	<0.5	28	1.76	0.7	43	4	650	2.83
I026316		5.78	0.287	3.6	0.39	28	<10	320	<0.5	42	1.52	0.9	32	4	462	2.60
I026317		5.70	0.161	2.6	0.39	39	<10	80	<0.5	54	1.20	0.5	53	3	167	2.55
I026318		5.92	0.068	2.5	0.38	14	<10	50	<0.5	60	1.19	0.9	35	4	442	2.15
I026319		6.06	0.080	3.5	0.35	7	<10	90	<0.5	63	1.29	<0.5	16	5	527	2.01
I026320		0.06	0.320	2.7	1.77	29	10	60	<0.5	2	0.86	2.2	11	31	2480	4.56
I026321		3.66	0.093	1.8	0.25	22	<10	50	<0.5	6	0.85	2.1	6	4	540	2.44
I026322		4.58	0.061	1.0	0.34	28	<10	100	<0.5	5	1.00	0.7	8	4	423	2.64
I026323		4.36	0.057	1.4	0.28	24	<10	70	<0.5	4	0.73	0.7	7	4	507	3.23
I026324		4.28	0.061	1.3	0.27	12	<10	100	<0.5	5	0.62	1.3	11	4	487	3.59
I026325		4.40	0.022	1.6	0.26	59	<10	230	<0.5	8	0.77	7.0	6	4	459	3.58
I026326		4.32	0.027	1.5	0.32	12	<10	170	<0.5	4	0.96	4.1	8	3	469	3.54
I026327		4.74	0.042	1.4	0.35	28	<10	90	0.5	7	2.57	1.5	8	3	458	3.85
I026328		4.20	0.018	1.6	0.28	7	<10	110	<0.5	9	1.19	1.8	8	4	285	3.60
I026329		4.44	0.014	0.8	0.30	9	<10	90	<0.5	5	1.19	0.7	8	4	381	3.40
I026330		0.30	<0.005	<0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	1	2	<1	0.08
I026331		4.58	0.017	1.0	0.27	7	<10	100	<0.5	16	1.20	2.5	6	3	340	2.80
I026332		4.60	0.036	0.6	0.33	33	<10	150	<0.5	9	1.60	0.9	12	3	386	3.30
I026333		4.12	0.019	0.6	0.31	8	<10	100	<0.5	9	1.01	1.0	9	3	187	3.35
I026334		4.66	<0.005	0.9	0.26	6	<10	90	<0.5	13	0.90	<0.5	10	5	270	3.38
I026335		4.38	0.010	1.3	0.27	9	<10	110	<0.5	11	0.75	1.6	18	4	513	4.80
I026336		4.24	0.005	1.0	0.24	8	<10	90	<0.5	15	0.79	0.6	11	5	370	3.85
I026337		4.60	0.026	0.6	0.25	42	<10	90	<0.5	8	0.88	0.5	35	5	498	3.30

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	
I026298		<10	<1	0.20	10	0.34	305	60	0.01	2	590	161	0.30	<2	3	67	
I026299		<10	1	0.20	10	0.60	359	44	0.01	4	550	226	0.59	<2	5	85	
I026300		<10	<1	0.29	<10	0.58	786	252	0.06	23	760	78	2.27	<2	2	56	
I026301		<10	<1	0.19	10	0.55	349	40	0.01	4	550	280	0.59	2	5	85	
I026302		<10	<1	0.20	10	0.77	463	31	0.01	3	620	157	0.40	<2	6	106	
I026303		<10	<1	0.19	10	0.50	342	13	0.01	3	550	274	0.45	<2	5	134	
I026304		<10	<1	0.20	10	0.55	333	8	0.01	2	550	145	0.27	<2	5	122	
I026305		<10	<1	0.19	10	0.24	145	6	0.01	5	480	50	0.91	<2	2	101	
I026306		<10	1	0.18	10	0.70	423	35	0.01	3	540	173	0.45	<2	6	100	
I026307		<10	<1	0.20	10	0.65	379	17	0.01	4	560	193	0.69	<2	5	120	
I026308		<10	<1	0.20	10	0.57	367	46	0.01	3	570	127	0.54	2	6	87	
I026309		<10	<1	0.22	10	0.74	453	13	0.01	6	610	275	0.59	<2	7	122	
I026310		<10	2	0.01	<10	0.01	102	<1	0.01	<1	80	2	0.01	<2	1	75	
I026311		<10	1	0.21	10	0.55	349	6	0.01	4	500	302	0.73	<2	5	108	
I026312		<10	<1	0.21	10	0.65	342	7	0.02	5	550	117	1.22	2	5	108	
I026313		<10	<1	0.21	10	0.78	317	14	0.02	5	580	58	0.80	2	6	130	
I026314		<10	<1	0.20	10	0.69	322	2	0.02	2	560	48	0.55	<2	5	107	
I026315		<10	<1	0.20	10	0.82	363	1	0.02	4	610	261	1.19	2	5	106	
I026316		<10	<1	0.21	10	0.76	341	3	0.02	4	560	170	0.97	4	5	116	
I026317		<10	<1	0.21	10	0.61	281	12	0.02	3	580	97	1.18	3	5	146	
I026318		<10	<1	0.21	10	0.62	299	12	0.02	1	570	87	0.61	4	5	210	
I026319		<10	<1	0.20	10	0.62	325	31	0.02	1	580	141	0.34	3	5	112	
I026320		10	<1	0.30	10	0.58	780	257	0.07	20	750	74	2.25	3	2	57	
I026321		<10	<1	0.17	10	0.56	280	241	0.02	4	500	83	0.49	<2	4	78	
I026322		<10	<1	0.23	10	0.62	273	95	0.02	2	590	30	0.56	<2	6	123	
I026323		<10	<1	0.18	10	0.57	242	43	0.02	3	550	35	1.14	3	5	88	
I026324		<10	<1	0.19	10	0.60	221	46	0.02	3	520	40	1.34	<2	5	71	
I026325		<10	<1	0.16	10	0.76	279	90	0.03	3	560	69	1.06	<2	6	100	
I026326		<10	<1	0.20	10	0.74	323	90	0.02	5	610	43	1.07	2	7	109	
I026327		<10	1	0.21	10	1.25	400	78	0.02	2	560	24	1.33	4	7	184	
I026328		<10	<1	0.19	10	0.79	254	42	0.02	3	550	56	1.25	<2	6	141	
I026329		<10	<1	0.20	10	0.76	237	66	0.02	2	620	26	1.00	3	6	138	
I026330		<10	<1	0.01	<10	0.35	97	<1	0.02	<1	60	<2	0.01	3	1	79	
I026331		<10	<1	0.17	10	0.68	245	23	0.02	2	570	36	0.82	<2	6	152	
I026332		<10	<1	0.22	10	0.73	190	9	0.02	2	560	19	1.49	<2	6	200	
I026333		<10	1	0.19	10	0.71	199	36	0.02	2	620	24	1.10	<2	7	116	
I026334		<10	<1	0.17	10	0.73	199	15	0.02	2	560	38	1.01	3	6	95	
I026335		<10	<1	0.17	10	0.71	199	29	0.02	3	590	55	2.18	<2	6	89	
I026336		<10	<1	0.18	10	0.68	232	69	0.02	2	550	31	1.28	<2	6	115	
I026337		<10	<1	0.18	10	0.55	254	140	0.02	2	520	16	1.46	<2	4	114	

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I026298		<20	<0.01	<10	<10	10	10	300
I026299		<20	<0.01	<10	<10	10	<10	243
I026300		<20	0.04	<10	<10	32	<10	449
I026301		<20	<0.01	<10	<10	9	<10	257
I026302		<20	<0.01	<10	<10	11	<10	327
I026303		<20	<0.01	<10	<10	11	<10	363
I026304		<20	<0.01	<10	<10	10	<10	147
I026305		<20	<0.01	<10	<10	6	<10	38
I026306		<20	<0.01	<10	<10	12	<10	208
I026307		<20	<0.01	<10	<10	12	<10	237
I026308		<20	<0.01	<10	<10	14	<10	103
I026309		<20	<0.01	<10	<10	14	<10	377
I026310		<20	<0.01	<10	<10	<1	<10	2
I026311		<20	<0.01	<10	<10	10	<10	566
I026312		<20	<0.01	<10	<10	12	<10	66
I026313		<20	<0.01	<10	<10	12	<10	46
I026314		<20	<0.01	<10	<10	12	<10	31
I026315		<20	<0.01	<10	<10	14	<10	50
I026316		<20	<0.01	<10	<10	12	30	63
I026317		<20	<0.01	<10	<10	10	10	32
I026318		<20	<0.01	<10	<10	12	<10	59
I026319		<20	<0.01	<10	<10	15	<10	31
I026320		<20	0.05	<10	<10	33	<10	452
I026321		<20	<0.01	<10	<10	13	10	138
I026322		<20	<0.01	<10	<10	14	10	63
I026323		<20	<0.01	<10	<10	12	10	55
I026324		<20	<0.01	<10	<10	15	20	95
I026325		<20	<0.01	<10	<10	18	80	435
I026326		<20	<0.01	<10	<10	21	20	278
I026327		<20	<0.01	<10	<10	20	<10	119
I026328		<20	<0.01	<10	<10	18	<10	125
I026329		<20	<0.01	<10	<10	18	<10	51
I026330		<20	<0.01	<10	<10	<1	<10	<2
I026331		<20	<0.01	<10	<10	16	<10	167
I026332		<20	<0.01	<10	<10	21	10	83
I026333		<20	<0.01	<10	<10	17	<10	88
I026334		<20	<0.01	<10	<10	17	10	39
I026335		<20	<0.01	<10	10	20	30	109
I026336		<20	<0.01	<10	<10	25	10	58
I026337		<20	<0.01	<10	<10	24	10	45

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I026338		4.34	0.012	1.8	0.27	16	<10	60	<0.5	50	1.02	1.2	21	4	514	5.71
I026339		4.50	0.253	4.0	0.32	393	<10	70	0.5	698	6.72	2.8	32	2	3330	7.20
I026340		0.04	0.333	2.6	1.73	29	10	60	<0.5	3	0.87	2.2	11	30	2410	4.43
I026341		4.68	0.148	0.8	0.43	158	<10	120	0.8	4	2.43	0.5	13	3	610	4.50
I026342		4.34	0.134	0.6	0.98	17	<10	110	0.8	<2	1.27	<0.5	9	5	445	3.03
I026343		4.62	0.041	0.3	1.37	131	<10	90	0.7	<2	1.27	<0.5	8	9	293	2.77
I026344		2.26	0.030	0.2	1.97	59	<10	90	0.7	3	1.37	<0.5	9	9	214	3.10
I026345		4.90	0.040	0.4	0.84	67	<10	90	0.7	<2	1.64	<0.5	12	6	386	3.42
I026346		6.10	0.035	0.3	1.57	58	<10	320	0.6	2	1.29	<0.5	10	9	313	3.28
I026347		5.82	0.108	0.4	1.43	8	<10	80	0.5	6	1.41	<0.5	9	10	339	3.21
I026348		5.88	0.038	0.4	1.44	17	<10	160	<0.5	2	1.03	<0.5	10	9	360	3.38
I026349		5.96	0.280	2.2	1.19	76	<10	80	<0.5	183	1.16	0.5	25	7	363	3.92
I026350		0.28	<0.005	<0.2	0.01	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.09
I026351		6.20	0.031	0.5	1.57	9	<10	100	<0.5	<2	1.27	<0.5	11	9	261	3.24
I026352		6.42	0.085	2.5	1.17	11	<10	100	0.6	244	1.23	0.8	8	8	340	2.77
I026353		6.02	0.055	0.4	0.92	22	<10	90	0.6	9	1.31	<0.5	10	7	215	2.51
I026354		5.60	0.019	0.5	1.58	14	<10	150	0.5	7	1.38	<0.5	10	8	219	3.16
I026355		6.28	0.038	0.3	0.97	33	<10	110	0.6	4	1.62	<0.5	7	5	206	2.93
I026356		6.12	0.073	0.3	1.26	7	<10	80	<0.5	3	1.32	<0.5	10	8	237	3.47
I026357		6.42	0.096	0.7	1.28	9	<10	80	<0.5	12	1.35	<0.5	8	7	389	3.44
I026358		5.82	0.055	0.3	1.39	9	<10	90	<0.5	6	1.29	<0.5	10	8	300	3.63
I026359		6.20	0.021	0.4	1.10	12	<10	80	0.5	2	1.45	<0.5	12	7	292	3.51
I026360		0.06	0.320	2.5	1.58	28	10	60	<0.5	<2	0.80	2.1	10	27	2410	4.27
I026361		6.04	0.046	0.5	1.01	15	<10	70	0.6	4	1.88	<0.5	11	5	306	3.70
I026362		6.62	0.039	0.7	0.97	22	<10	190	0.6	3	1.39	<0.5	9	6	362	3.27
I026363		5.94	0.176	1.5	0.35	43	<10	60	0.6	11	1.66	0.5	16	5	540	3.22
I026364		5.60	0.095	2.0	0.37	29	<10	100	0.5	5	1.23	0.8	13	5	782	2.92
I026365		6.10	0.090	1.3	0.40	47	<10	80	0.8	2	2.25	<0.5	8	4	618	3.15
I026366		5.90	0.035	0.5	0.97	6	<10	70	<0.5	<2	0.94	<0.5	8	9	327	2.56
I026367		5.98	0.064	0.8	0.96	17	<10	70	<0.5	3	0.91	<0.5	8	10	318	2.73

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026338		<10	1	0.17	10	0.74	294	96	0.02	3	590	72	2.74	5	6	112
I026339		<10	1	0.17	10	2.94	686	25	0.02	<1	460	54	4.95	18	8	709
I026340		10	<1	0.29	10	0.58	777	252	0.07	20	750	75	2.21	<2	2	55
I026341		<10	<1	0.22	10	0.99	241	28	0.03	1	660	7	2.68	2	7	260
I026342		<10	<1	0.28	20	0.78	105	26	0.10	2	710	6	0.67	<2	8	106
I026343		10	<1	0.40	30	0.85	88	27	0.12	1	690	3	0.63	<2	8	89
I026344		10	<1	0.51	30	0.93	91	23	0.21	1	720	3	0.61	2	8	100
I026345		<10	<1	0.24	20	0.79	111	18	0.06	3	710	5	0.88	<2	7	96
I026346		10	<1	0.42	30	0.94	94	17	0.12	1	710	4	0.76	3	7	158
I026347		10	<1	0.24	30	0.83	101	18	0.09	2	680	5	0.81	<2	6	57
I026348		10	<1	0.35	20	0.90	96	64	0.09	5	660	6	0.82	<2	7	58
I026349		10	1	0.19	20	0.68	125	54	0.05	4	650	116	2.14	5	5	73
I026350		<10	<1	<0.01	<10	0.94	108	<1	0.01	<1	60	2	0.01	<2	<1	81
I026351		10	<1	0.34	20	0.90	98	7	0.11	4	670	5	0.82	<2	7	66
I026352		10	<1	0.36	20	0.69	113	27	0.07	4	590	80	0.75	7	6	82
I026353		<10	<1	0.36	20	0.69	125	170	0.07	4	650	8	0.54	3	7	77
I026354		10	<1	0.45	20	0.90	102	4	0.13	4	680	7	0.69	2	7	81
I026355		<10	<1	0.35	20	0.78	112	44	0.07	3	660	6	0.76	2	7	105
I026356		10	<1	0.24	20	0.91	116	25	0.06	3	660	3	0.81	<2	7	73
I026357		10	<1	0.24	20	0.94	116	33	0.06	4	670	4	0.95	<2	7	73
I026358		10	<1	0.25	30	0.95	124	23	0.07	4	660	5	1.06	<2	7	75
I026359		10	<1	0.20	20	0.84	117	13	0.05	4	660	8	1.03	2	6	97
I026360		10	1	0.27	<10	0.54	702	224	0.05	19	700	73	2.11	3	2	52
I026361		10	<1	0.20	20	0.86	135	57	0.05	4	720	6	0.91	<2	7	111
I026362		<10	<1	0.36	20	0.78	139	40	0.06	4	770	8	0.79	2	6	120
I026363		<10	<1	0.20	20	0.63	199	91	0.02	6	720	25	1.53	3	4	117
I026364		<10	1	0.17	20	0.50	187	85	0.03	5	740	28	1.18	<2	4	61
I026365		<10	<1	0.20	20	0.75	179	53	0.03	6	730	13	1.46	5	4	127
I026366		10	<1	0.19	20	0.70	89	29	0.05	5	650	5	0.80	<2	4	51
I026367		10	<1	0.23	20	0.72	122	45	0.05	5	670	6	0.93	3	4	52

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I026338		<20	<0.01	<10	<10	30	<10	90
I026339		<20	<0.01	10	<10	22	<10	157
I026340		<20	0.05	<10	<10	33	<10	458
I026341		<20	<0.01	<10	<10	27	<10	45
I026342		<20	0.01	<10	<10	37	<10	42
I026343		<20	0.04	<10	<10	57	<10	22
I026344		<20	0.06	<10	<10	68	30	22
I026345		<20	0.01	<10	<10	41	<10	30
I026346		<20	0.05	<10	<10	68	<10	22
I026347		<20	0.03	<10	<10	73	<10	26
I026348		<20	0.09	<10	<10	72	<10	26
I026349		<20	0.02	<10	<10	57	10	39
I026350		<20	<0.01	<10	<10	1	<10	<2
I026351		<20	0.05	<10	<10	74	<10	21
I026352		<20	0.03	<10	<10	52	10	58
I026353		<20	0.03	<10	<10	45	10	29
I026354		20	0.06	<10	<10	65	10	17
I026355		<20	0.02	<10	<10	45	<10	31
I026356		<20	0.02	<10	<10	64	10	21
I026357		<20	0.03	<10	<10	66	<10	21
I026358		<20	0.03	<10	<10	70	50	25
I026359		<20	0.02	<10	<10	63	<10	21
I026360		<20	0.04	<10	<10	30	<10	420
I026361		<20	0.01	<10	<10	54	<10	33
I026362		<20	0.03	<10	<10	49	<10	32
I026363		20	<0.01	<10	10	21	<10	56
I026364		20	<0.01	<10	10	25	<10	63
I026365		20	<0.01	<10	10	20	<10	35
I026366		20	0.02	<10	10	49	<10	20
I026367		20	0.03	<10	10	52	<10	27

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17149538

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au- AA23	CRU- 31	CRU- QC	LOG- 21
LOG- 23	ME- ICP41	PUL- 35	PUL- QC
SPL- 21	WEI- 21		

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 6- AUG- 2017
This copy reported on
26- OCT- 2017
Account: NOFREG

CERTIFICATE WH17154695

Project: Freegold Mountain Project

P.O. No.: 1005139

This report is for 19 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples I026898 to I026910, I026912 to G286252.**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 6- AUG- 2017
Account: NOFREG

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17154695

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
I026898		5.85	0.011		0.3	0.90	40	<10	60	0.8	2	2.52	<0.5	8	7	125
I026899		4.09	0.012		0.3	1.08	53	<10	50	0.9	<2	2.73	<0.5	9	6	161
I026900		0.07	0.739		0.9	0.23	356	<10	120	<0.5	2	9.2	0.6	4	20	32
I026901		5.49	0.008		0.4	1.12	110	<10	60	0.8	<2	1.90	<0.5	8	6	118
I026902		5.83	0.007		0.4	0.90	46	<10	40	0.7	<2	1.86	<0.5	8	7	94
I026903		5.40	0.007		0.2	0.71	19	<10	50	0.7	<2	1.98	<0.5	6	6	69
I026904		2.86	0.008		0.3	0.90	16	<10	60	1.0	<2	1.83	<0.5	6	6	82
I026905		0.27	<0.005		<0.2	0.02	<2	<10	10	<0.5	3	>25.0	<0.5	<1	1	1
I026906		2.95	>10.0	62.5	21.4	0.60	67	<10	40	0.7	470	2.01	1.0	2	6	67
I026907		0.32	0.006		<0.2	0.01	<2	<10	10	<0.5	3	>25.0	<0.5	<1	<1	1
I026908		2.33	3.04		0.6	0.52	31	<10	40	0.6	12	2.37	<0.5	2	6	25
I026909		0.34	0.006		<0.2	0.01	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	1
I026910		3.70	0.574		2.8	0.61	177	<10	30	0.6	28	2.19	3.6	14	7	2040
I026911		5.32	9.88		6.1	1.10	50	<10	50	0.5	192	1.55	0.6	4	12	673
I026912		6.14	3.52		6.6	0.87	79	<10	50	0.7	35	1.82	2.6	5	10	2080
I026913		5.21	0.016		0.5	1.24	34	<10	80	0.5	2	1.21	<0.5	4	14	102
I026914		6.55	0.038		0.7	1.28	31	<10	110	0.5	<2	1.29	<0.5	5	14	219
G286251		0.07	0.738		5.4	1.36	18	<10	140	<0.5	3	0.81	<0.5	11	40	>10000
G286252		0.30	0.007		0.2	0.02	2	<10	20	<0.5	3	>25.0	<0.5	<1	1	9

Comments: **Corrected copy for Au- AA23 on samples I026898 to I026910, I026912 to G286252.**

***** See Appendix Page for comments regarding this certificate *****

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17154695

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I026898		3.19	<10	<1	0.09	20	0.80	301	1	0.01	19	660	10	0.51	2	5
I026899		3.10	<10	<1	0.08	30	0.71	224	5	0.01	8	750	6	0.52	2	6
I026900		1.72	<10	4	0.09	<10	4.52	309	8	0.01	33	470	8	1.36	54	3
I026901		2.77	<10	<1	0.11	20	0.61	219	1	0.01	7	740	8	0.39	2	5
I026902		2.87	<10	<1	0.11	30	0.68	287	1	0.01	6	760	9	0.30	<2	6
I026903		2.47	<10	<1	0.13	20	0.65	255	1	0.01	5	660	6	0.23	<2	4
I026904		2.53	<10	<1	0.16	30	0.43	196	1	0.02	5	680	5	0.24	<2	3
I026905		0.07	<10	<1	<0.01	<10	0.50	89	<1	0.01	<1	70	<2	<0.01	<2	<1
I026906		2.44	<10	<1	0.22	20	0.46	308	10	0.02	4	610	527	0.59	11	3
I026907		0.05	<10	<1	<0.01	<10	0.70	77	<1	0.01	<1	60	<2	<0.01	<2	<1
I026908		2.11	<10	<1	0.24	20	0.61	362	5	0.01	3	660	23	0.50	2	2
I026909		0.04	<10	<1	<0.01	<10	0.35	70	<1	0.01	<1	60	<2	<0.01	<2	<1
I026910		3.85	<10	<1	0.22	10	0.50	320	13	0.02	5	640	28	2.47	3	2
I026911		3.19	10	<1	0.23	20	0.63	266	1	0.05	5	650	126	0.60	5	4
I026912		3.48	<10	<1	0.28	30	0.65	344	178	0.04	5	650	42	0.86	5	4
I026913		2.96	10	<1	0.37	30	0.70	209	4	0.07	5	640	12	0.51	<2	5
I026914		2.87	10	<1	0.32	30	0.68	222	14	0.06	5	670	8	0.32	<2	5
G286251		3.41	<10	<1	0.13	10	0.61	468	458	0.11	33	540	9	0.97	2	5
G286252		0.14	<10	<1	<0.01	<10	0.55	88	1	0.01	<1	60	<2	<0.01	<2	<1

Comments: **Corrected copy for Au- AA23 on samples I026898 to I026910, I026912 to G286252.**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17154695

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I026898		104	20	<0.01	<10	<10	34	<10	41	
I026899		98	20	<0.01	<10	10	36	<10	20	
I026900		44	<20	<0.01	<10	<10	36	40	65	
I026901		89	20	0.01	<10	<10	32	<10	21	
I026902		83	20	<0.01	<10	<10	29	<10	27	
I026903		94	20	<0.01	<10	<10	25	<10	19	
I026904		73	20	<0.01	<10	<10	22	<10	17	
I026905		76	<20	<0.01	<10	<10	<1	<10	<2	
I026906		92	20	<0.01	<10	<10	14	<10	27	
I026907		82	<20	<0.01	<10	<10	<1	<10	<2	
I026908		79	<20	<0.01	<10	<10	11	<10	31	
I026909		84	<20	<0.01	<10	<10	<1	<10	<2	
I026910		86	<20	<0.01	<10	10	14	<10	270	
I026911		61	20	0.01	<10	<10	40	40	42	
I026912		76	20	0.01	<10	10	27	40	198	
I026913		60	20	0.05	<10	<10	46	<10	33	
I026914		71	20	0.04	<10	<10	45	10	27	
G286251		45	<20	0.12	<10	<10	54	30	73	1.250
G286252		84	<20	<0.01	<10	<10	<1	<10	3	

Comments: **Corrected copy for Au- AA23 on samples I026898 to I026910, I026912 to G286252.**

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Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17154695

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au- AA23	Au- GRA21	Cu- OG46	ME- ICP41
	ME- OG46			

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

CERTIFICATE WH17156166

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 150 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 27- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K917508		5.26	<0.005	0.2	0.97	6	<10	40	0.5	2	1.88	<0.5	6	7	116	2.34
K917509		4.99	0.011	<0.2	0.79	11	<10	70	<0.5	5	1.31	<0.5	6	9	133	2.35
K917510		0.52	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.13
K917511		5.18	0.006	0.2	0.59	68	<10	50	<0.5	<2	1.75	<0.5	5	7	140	1.84
K917512		7.19	0.033	0.2	0.90	15	<10	50	<0.5	3	1.22	<0.5	6	8	169	2.20
K917513		7.00	<0.005	<0.2	0.99	4	<10	50	<0.5	2	0.91	<0.5	7	10	122	2.30
K917514		4.72	0.015	<0.2	1.10	5	<10	40	<0.5	<2	0.84	<0.5	8	10	113	2.24
K917515		5.01	0.025	<0.2	2.75	4	<10	120	<0.5	2	1.42	<0.5	14	4	170	4.38
K917516		6.27	0.014	<0.2	3.08	10	<10	100	<0.5	4	1.95	<0.5	21	3	222	4.21
K917517		7.13	0.024	0.7	3.37	7	<10	60	<0.5	7	2.78	<0.5	16	4	595	4.12
K917518		7.06	0.005	<0.2	3.09	3	<10	130	0.5	<2	2.21	<0.5	10	4	127	4.39
K917519		7.60	0.005	<0.2	2.62	4	<10	190	<0.5	<2	1.22	<0.5	11	4	117	3.83
K917520		0.06	0.776	2.9	1.15	15	10	110	<0.5	2	0.77	<0.5	9	46	7500	2.41
K917521		6.81	0.008	<0.2	2.86	4	<10	270	<0.5	<2	1.13	<0.5	11	5	128	4.20
K917522		6.88	0.011	0.3	0.87	7	<10	50	<0.5	6	1.31	<0.5	7	8	231	2.00
K917523		7.04	0.069	0.8	0.52	531	<10	100	<0.5	103	2.06	<0.5	6	6	270	2.39
K917524		6.98	0.011	0.2	0.43	159	<10	80	0.6	71	2.70	<0.5	8	4	186	2.07
K917525		7.82	0.021	0.2	0.43	18	<10	70	0.5	4	1.40	<0.5	9	5	174	2.37
K917526		5.22	0.015	0.2	0.53	114	<10	110	0.6	6	2.68	<0.5	10	6	158	2.56
K917527		6.46	<0.005	<0.2	0.83	3	<10	110	<0.5	<2	0.86	<0.5	6	11	68	2.21
K917528		6.27	0.006	0.2	0.91	16	<10	460	0.7	2	1.66	<0.5	7	6	134	2.38
K917529		4.56	0.006	<0.2	1.06	8	<10	70	0.5	2	1.03	<0.5	7	7	113	2.29
K917530		0.56	<0.005	<0.2	0.01	<2	10	20	<0.5	3	>25.0	<0.5	<1	1	1	0.10
K917531		4.67	0.006	0.4	0.97	12	<10	40	0.6	6	1.36	<0.5	7	6	218	2.22
K917532		3.31	0.009	0.2	0.97	13	<10	60	0.5	4	1.69	<0.5	7	7	104	2.13
K917533		4.22	<0.005	0.2	1.06	7	<10	70	<0.5	3	0.86	<0.5	10	10	109	2.12
K917534		6.27	0.019	0.2	2.93	3	<10	210	<0.5	11	1.59	<0.5	12	4	197	4.49
K917535		3.33	0.007	0.2	2.76	5	<10	320	<0.5	8	1.00	<0.5	11	4	155	4.73
K917536		5.47	0.007	0.2	2.43	3	<10	220	<0.5	5	0.96	<0.5	10	5	161	3.99
K917537		4.76	<0.005	0.2	0.86	4	<10	170	<0.5	<2	0.69	<0.5	5	8	62	1.93
K917538		6.76	<0.005	<0.2	0.99	3	<10	250	<0.5	4	0.69	<0.5	8	10	61	2.36
K917539		5.51	<0.005	<0.2	0.87	3	<10	210	<0.5	3	0.62	<0.5	7	10	78	2.06
K917540		0.06	0.320	2.5	1.58	27	10	60	<0.5	3	0.80	2.2	10	28	2450	4.30
K917541		3.43	<0.005	0.2	0.88	3	<10	160	<0.5	2	1.05	<0.5	7	10	58	2.10
K917542		4.95	0.008	0.2	0.93	<2	<10	90	<0.5	2	1.50	<0.5	8	9	108	2.10
K917543		6.51	<0.005	0.2	0.87	5	<10	170	<0.5	<2	0.87	<0.5	6	9	121	2.09
K917544		6.53	<0.005	0.2	0.88	5	<10	210	<0.5	<2	0.76	<0.5	5	10	42	2.09
K917545		6.64	0.047	2.1	0.80	4	<10	150	<0.5	55	1.07	0.6	6	10	520	2.15
K917546		6.70	<0.005	<0.2	0.60	29	<10	50	0.6	2	1.55	<0.5	5	6	74	1.93
K917547		6.79	<0.005	0.2	0.78	14	<10	120	<0.5	3	1.00	<0.5	4	9	69	2.05

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917508		<10	<1	0.18	20	0.55	155	<1	0.04	4	590	4	0.52	<2	4	110
K917509		<10	<1	0.25	20	0.53	144	330	0.05	4	570	4	0.66	<2	4	53
K917510		<10	1	0.01	<10	0.79	114	1	0.01	<1	60	<2	0.02	<2	<1	82
K917511		<10	<1	0.19	20	0.40	125	2	0.04	2	550	4	0.51	<2	3	53
K917512		<10	<1	0.24	20	0.56	131	1	0.05	3	570	6	0.62	<2	4	37
K917513		10	<1	0.19	20	0.62	156	1	0.07	4	570	5	0.54	<2	4	37
K917514		10	<1	0.16	20	0.68	151	1	0.07	3	590	3	0.47	<2	4	41
K917515		10	<1	1.03	10	1.29	214	2	0.28	2	1240	<2	0.76	<2	11	93
K917516		10	<1	0.72	10	1.02	219	1	0.33	3	1230	<2	1.01	3	10	157
K917517		10	<1	0.39	10	0.79	272	1	0.41	1	1170	2	1.03	2	9	196
K917518		10	<1	0.75	10	1.11	309	2	0.31	1	1220	2	0.62	<2	10	151
K917519		10	<1	1.07	10	1.19	207	2	0.28	2	1180	2	0.59	<2	10	92
K917520		<10	<1	0.10	<10	0.53	374	375	0.08	31	490	7	0.59	<2	4	38
K917521		10	<1	1.33	10	1.34	220	2	0.28	2	1210	2	0.64	2	10	99
K917522		<10	<1	0.21	20	0.46	134	3	0.05	4	560	4	0.58	<2	3	38
K917523		<10	<1	0.22	20	0.70	287	2	0.05	4	560	9	1.02	12	3	68
K917524		<10	<1	0.20	20	0.70	187	5	0.02	4	560	9	0.87	5	3	139
K917525		<10	<1	0.18	20	0.47	146	2	0.04	3	570	4	1.01	4	3	90
K917526		<10	<1	0.23	20	0.98	244	14	0.04	4	540	3	0.82	5	4	103
K917527		<10	1	0.34	20	0.58	217	1	0.08	4	550	3	0.36	<2	4	48
K917528		<10	<1	0.17	20	0.61	159	67	0.03	3	560	5	0.55	2	3	103
K917529		<10	<1	0.21	20	0.51	155	193	0.04	4	540	3	0.55	2	4	85
K917530		<10	<1	<0.01	<10	0.48	82	1	0.01	<1	70	<2	0.01	<2	<1	77
K917531		<10	<1	0.16	20	0.44	187	1	0.05	4	560	6	0.49	<2	4	100
K917532		<10	<1	0.29	20	0.56	231	<1	0.05	5	550	4	0.39	<2	4	78
K917533		10	<1	0.26	20	0.57	171	1	0.08	3	570	5	0.40	<2	4	43
K917534		10	<1	1.12	10	1.23	292	1	0.28	2	1270	2	0.79	2	10	128
K917535		10	<1	1.41	10	1.44	290	1	0.21	2	1210	2	0.73	<2	12	76
K917536		10	<1	1.26	10	1.35	208	1	0.21	2	1140	2	0.66	2	11	61
K917537		<10	<1	0.31	20	0.54	184	2	0.08	3	530	4	0.30	<2	3	40
K917538		<10	<1	0.48	20	0.71	250	1	0.07	4	620	5	0.30	<2	3	37
K917539		<10	<1	0.43	20	0.60	197	3	0.08	4	560	4	0.33	<2	3	35
K917540		<10	<1	0.28	<10	0.55	721	216	0.06	20	680	71	2.15	2	2	52
K917541		<10	<1	0.34	20	0.59	228	1	0.06	4	550	4	0.33	<2	4	48
K917542		<10	<1	0.21	20	0.59	202	<1	0.05	4	550	5	0.55	<2	4	68
K917543		<10	<1	0.36	20	0.61	210	1	0.07	4	560	4	0.40	<2	4	39
K917544		<10	<1	0.42	20	0.59	252	<1	0.08	4	570	4	0.20	<2	3	39
K917545		<10	<1	0.31	20	0.51	232	2	0.06	4	570	43	0.40	<2	4	66
K917546		<10	<1	0.17	20	0.49	174	1	0.04	3	540	7	0.36	2	3	87
K917547		<10	1	0.32	20	0.50	214	1	0.07	3	530	3	0.27	2	4	53

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917508		20	0.02	<10	10	33	<10	13
K917509		20	0.02	<10	10	34	<10	14
K917510		<20	<0.01	<10	<10	<1	<10	<2
K917511		20	<0.01	<10	10	18	<10	13
K917512		20	0.03	<10	10	36	30	16
K917513		20	0.06	<10	10	44	10	14
K917514		20	0.04	<10	<10	43	10	15
K917515		<20	0.22	<10	<10	86	10	19
K917516		<20	0.19	<10	<10	84	10	16
K917517		<20	0.14	<10	<10	80	10	22
K917518		<20	0.19	<10	<10	86	<10	20
K917519		<20	0.25	<10	<10	87	10	17
K917520		<20	0.11	<10	<10	49	30	55
K917521		<20	0.28	<10	<10	95	10	21
K917522		20	0.02	<10	10	33	10	18
K917523		<20	0.01	<10	<10	19	<10	22
K917524		20	<0.01	<10	<10	9	<10	19
K917525		20	<0.01	<10	10	14	10	16
K917526		30	0.01	<10	10	22	30	16
K917527		20	0.07	<10	10	40	<10	15
K917528		20	0.01	<10	<10	23	<10	15
K917529		20	0.03	<10	<10	31	<10	16
K917530		<20	<0.01	<10	<10	<1	<10	<2
K917531		20	0.01	<10	10	25	<10	20
K917532		20	0.05	<10	10	31	<10	17
K917533		20	0.05	<10	<10	42	<10	18
K917534		<20	0.25	<10	<10	94	<10	22
K917535		<20	0.30	<10	<10	102	<10	27
K917536		<20	0.26	<10	<10	93	<10	22
K917537		20	0.12	<10	10	40	<10	14
K917538		20	0.16	<10	10	49	<10	18
K917539		20	0.13	<10	10	43	10	14
K917540		<20	0.04	<10	<10	29	<10	425
K917541		20	0.08	<10	10	42	<10	17
K917542		20	0.03	<10	10	37	<10	14
K917543		20	0.10	<10	10	42	10	16
K917544		30	0.12	<10	10	45	<10	16
K917545		20	0.06	<10	10	37	<10	31
K917546		20	0.01	<10	<10	20	<10	15
K917547		20	0.06	<10	10	36	<10	17

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917548		6.62	0.029	0.2	0.77	60	<10	60	0.7	3	1.61	<0.5	7	7	74	1.56
K917549		6.69	0.017	0.7	0.59	130	<10	60	0.5	18	1.85	<0.5	6	6	362	2.06
K917550		0.43	<0.005	<0.2	0.02	<2	<10	20	<0.5	5	>25.0	<0.5	<1	1	2	0.10
K917551		6.64	<0.005	<0.2	0.97	8	<10	110	<0.5	3	1.04	<0.5	10	10	66	1.91
K917552		6.86	<0.005	0.2	0.89	2	<10	130	<0.5	3	1.16	<0.5	6	10	66	2.12
K917553		6.03	<0.005	<0.2	0.84	3	<10	80	<0.5	2	0.86	<0.5	6	9	68	2.02
K917554		6.69	0.005	<0.2	0.86	2	<10	90	<0.5	<2	0.88	<0.5	6	11	65	2.04
K917555		6.53	<0.005	0.2	0.90	6	<10	80	<0.5	2	0.81	<0.5	5	11	75	2.11
K917556		6.91	<0.005	0.2	0.99	9	<10	90	<0.5	2	0.83	<0.5	6	12	69	2.06
K917557		6.40	<0.005	0.2	1.10	23	<10	160	0.5	3	1.36	<0.5	6	10	94	2.08
K917558		5.83	<0.005	0.2	1.24	28	<10	120	0.6	2	1.01	<0.5	8	9	156	2.44
K917559		5.65	0.010	0.4	1.13	30	<10	60	0.7	5	1.34	<0.5	6	9	247	2.08
K917560		0.06	0.344	2.8	1.76	29	10	60	<0.5	<2	0.86	2.3	11	31	2560	4.68
K917561		7.69	0.038	0.3	0.92	129	<10	80	0.6	2	0.23	<0.5	12	7	273	2.63
K917562		6.31	0.063	0.4	0.65	66	<10	60	0.5	3	0.21	<0.5	12	8	235	2.32
K917563		3.40	0.043	0.5	0.43	87	<10	60	0.5	2	0.14	<0.5	10	5	234	1.82
K917564		4.87	0.021	0.2	0.34	232	<10	80	<0.5	2	0.12	<0.5	9	5	134	1.26
K917565		7.13	0.646	0.4	0.30	138	<10	70	<0.5	368	0.10	<0.5	6	4	144	1.44
K917566		7.12	0.045	0.9	0.43	75	<10	90	0.5	5	0.13	<0.5	9	5	386	2.36
K917567		6.12	0.095	0.4	0.82	1060	<10	60	0.5	6	0.30	<0.5	8	8	169	2.32
K917568		6.65	0.849	0.4	0.67	258	<10	70	<0.5	10	0.24	<0.5	8	7	189	2.15
K917569		3.92	0.503	0.3	0.57	284	<10	50	0.5	2	0.18	<0.5	7	7	191	1.95
K917570		0.41	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.07
K917571		4.98	0.084	0.3	0.83	944	<10	60	0.5	<2	0.29	<0.5	7	10	166	2.38
K917572		4.38	0.026	0.4	0.95	88	<10	60	0.6	2	0.38	<0.5	8	8	236	2.93
K917573		5.25	1.180	1.3	0.48	179	<10	110	0.5	46	0.22	<0.5	9	5	255	3.10
K917574		5.05	0.848	0.4	0.56	53	<10	50	0.5	20	0.28	<0.5	11	6	170	2.47
K917575		7.13	0.273	0.6	0.56	33	<10	50	0.5	15	0.62	<0.5	6	6	279	2.36
K917576		7.77	0.200	0.5	0.82	19	<10	50	<0.5	21	0.72	<0.5	7	9	232	2.50
K917577		8.86	0.174	<0.2	1.03	23	<10	60	<0.5	13	0.63	<0.5	5	12	139	2.54
K917578		7.34	0.583	0.2	0.96	268	<10	50	<0.5	8	0.64	<0.5	7	13	152	2.46
K917579		5.39	0.868	0.5	0.74	23	<10	50	0.5	13	0.94	<0.5	5	7	230	2.26
K917580		0.06	0.329	2.8	1.76	29	10	60	<0.5	<2	0.85	2.2	10	31	2510	4.64
K917581		5.06	1.380	0.2	0.50	100	<10	50	0.6	7	0.26	<0.5	8	7	169	2.26
K917582		5.52	0.026	<0.2	0.62	12	<10	50	0.5	<2	0.88	<0.5	9	9	141	2.29
K917583		9.16	0.059	0.2	0.95	14	<10	50	<0.5	4	0.98	<0.5	5	10	148	2.56
K917584		7.54	0.244	0.3	0.90	18	<10	50	0.5	11	1.00	<0.5	7	8	236	2.49
K917585		6.03	0.142	0.5	0.85	3	<10	40	0.5	2	1.20	<0.5	6	9	207	2.11
K917586		10.64	0.019	0.7	0.94	3	<10	50	<0.5	14	0.91	<0.5	6	11	285	2.55
K917587		9.72	0.017	0.2	0.90	4	<10	50	<0.5	2	0.82	<0.5	6	10	161	2.23

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917548		<10	<1	0.18	20	0.37	151	1	0.05	3	490	7	0.30	2	3	94
K917549		<10	<1	0.18	20	0.49	194	<1	0.04	3	480	7	0.70	5	3	82
K917550		<10	<1	0.01	<10	0.48	84	<1	0.02	<1	60	<2	0.02	<2	<1	87
K917551		<10	<1	0.27	20	0.52	206	<1	0.10	3	530	5	0.31	<2	3	52
K917552		<10	<1	0.37	30	0.59	216	<1	0.08	3	530	4	0.33	<2	3	38
K917553		<10	<1	0.25	20	0.57	203	1	0.07	3	540	3	0.33	<2	4	34
K917554		<10	<1	0.30	20	0.55	212	<1	0.08	4	550	4	0.26	<2	3	36
K917555		<10	1	0.30	20	0.63	195	<1	0.07	4	570	3	0.32	<2	4	37
K917556		<10	<1	0.32	20	0.63	193	<1	0.06	4	550	4	0.31	<2	3	52
K917557		<10	<1	0.37	20	0.62	221	1	0.05	4	540	3	0.35	2	3	83
K917558		10	<1	0.35	20	0.57	154	1	0.06	4	580	4	0.54	3	3	82
K917559		<10	<1	0.26	20	0.51	166	1	0.04	4	540	7	0.46	2	3	94
K917560		<10	<1	0.30	<10	0.59	782	241	0.06	22	770	78	2.27	2	2	58
K917561		10	<1	0.18	20	0.34	92	18	0.05	5	560	4	0.23	<2	3	21
K917562		<10	<1	0.16	20	0.29	88	17	0.04	4	610	4	0.11	2	3	15
K917563		<10	<1	0.20	20	0.09	59	24	0.03	3	610	4	0.06	<2	2	21
K917564		<10	<1	0.19	20	0.02	61	6	0.03	3	480	5	0.02	2	1	15
K917565		<10	<1	0.17	20	0.02	63	7	0.03	2	460	8	0.04	5	2	24
K917566		<10	<1	0.20	20	0.07	109	10	0.03	3	520	5	0.09	4	2	20
K917567		<10	<1	0.16	20	0.35	111	4	0.04	3	550	6	0.15	3	3	18
K917568		<10	<1	0.17	20	0.24	137	6	0.04	4	470	6	0.07	<2	2	23
K917569		<10	<1	0.15	20	0.16	115	7	0.03	3	480	6	0.05	4	2	15
K917570		<10	1	<0.01	<10	0.45	91	<1	0.01	<1	60	<2	0.01	<2	<1	95
K917571		<10	<1	0.16	20	0.29	130	7	0.04	3	530	5	0.04	3	3	21
K917572		10	<1	0.18	20	0.42	141	13	0.04	4	540	5	0.17	<2	3	23
K917573		<10	<1	0.24	20	0.08	163	34	0.02	3	480	23	0.14	5	2	28
K917574		<10	<1	0.16	20	0.21	169	20	0.04	4	580	10	0.19	3	3	12
K917575		<10	<1	0.20	20	0.23	161	8	0.04	3	550	10	0.50	<2	2	28
K917576		<10	<1	0.17	20	0.46	135	3	0.04	3	550	7	0.79	<2	3	28
K917577		10	<1	0.28	20	0.58	152	5	0.05	4	560	7	0.57	<2	4	21
K917578		<10	<1	0.25	20	0.57	147	2	0.04	4	580	7	0.67	2	4	21
K917579		<10	<1	0.22	20	0.37	149	111	0.04	3	530	9	0.56	2	2	33
K917580		10	<1	0.30	<10	0.59	773	241	0.06	22	760	77	2.26	2	2	58
K917581		<10	1	0.19	30	0.13	132	55	0.03	4	630	6	0.15	<2	3	13
K917582		<10	<1	0.18	20	0.40	131	5	0.04	4	590	7	0.65	<2	3	44
K917583		<10	<1	0.24	30	0.57	173	1	0.05	4	590	9	0.65	<2	4	32
K917584		<10	<1	0.21	20	0.49	121	24	0.03	4	530	5	0.81	<2	3	28
K917585		<10	<1	0.28	20	0.50	112	245	0.02	2	570	4	0.72	<2	2	28
K917586		<10	<1	0.24	20	0.56	131	1	0.04	5	570	15	0.78	<2	4	26
K917587		10	<1	0.19	20	0.55	147	13	0.04	3	520	4	0.60	<2	3	31

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917548		20	0.01	<10	10	19	<10	22
K917549		20	0.01	<10	10	21	<10	24
K917550		<20	<0.01	<10	<10	<1	<10	<2
K917551		20	0.06	<10	<10	38	<10	19
K917552		20	0.10	<10	10	43	<10	16
K917553		20	0.09	<10	10	42	10	16
K917554		20	0.10	<10	10	43	<10	15
K917555		30	0.12	<10	10	45	10	15
K917556		20	0.10	<10	10	42	<10	14
K917557		20	0.11	<10	<10	41	<10	15
K917558		20	0.06	<10	<10	38	10	19
K917559		20	0.03	<10	10	31	<10	20
K917560		<20	0.04	<10	<10	33	<10	457
K917561		20	0.01	<10	<10	35	10	14
K917562		20	<0.01	<10	<10	25	<10	14
K917563		20	<0.01	<10	<10	14	<10	11
K917564		20	<0.01	<10	<10	7	<10	7
K917565		20	<0.01	<10	<10	9	<10	6
K917566		20	<0.01	<10	<10	14	<10	16
K917567		20	0.01	<10	<10	31	<10	13
K917568		20	0.01	<10	<10	23	10	19
K917569		20	<0.01	<10	<10	21	<10	17
K917570		<20	<0.01	<10	<10	<1	<10	<2
K917571		20	0.01	<10	<10	29	<10	16
K917572		20	<0.01	<10	<10	36	<10	17
K917573		20	<0.01	<10	<10	13	<10	26
K917574		20	<0.01	<10	<10	22	30	20
K917575		20	<0.01	<10	<10	17	<10	20
K917576		20	0.01	<10	<10	31	<10	16
K917577		20	0.03	<10	10	43	<10	18
K917578		20	0.03	<10	10	40	<10	21
K917579		20	0.01	<10	10	21	10	24
K917580		<20	0.04	<10	<10	33	<10	456
K917581		20	<0.01	<10	<10	17	30	20
K917582		20	<0.01	<10	10	23	<10	18
K917583		20	0.03	<10	10	39	<10	22
K917584		20	0.01	<10	10	27	30	17
K917585		20	0.01	<10	10	23	10	15
K917586		20	0.04	<10	10	37	10	18
K917587		20	0.04	<10	10	37	10	13

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917588		10.59	0.190	0.2	1.09	4	<10	60	<0.5	15	0.92	<0.5	6	12	125	2.62
K917589		9.85	0.122	0.3	1.01	4	<10	40	<0.5	8	1.10	<0.5	6	11	206	2.49
K917590		0.62	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.08
K917591		10.21	0.058	0.3	1.01	7	<10	40	<0.5	3	0.85	<0.5	9	10	215	2.48
K917592		10.61	0.038	<0.2	1.07	6	<10	70	<0.5	2	0.93	<0.5	6	11	112	2.27
K917593		11.77	0.466	0.2	0.98	12	<10	40	<0.5	20	1.13	<0.5	6	10	145	2.08
K917594		10.09	0.149	0.3	1.02	15	<10	40	0.5	16	1.01	<0.5	11	9	295	2.74
K917595		4.97	0.944	1.1	1.16	40	<10	40	0.6	63	1.23	<0.5	27	8	896	4.62
K917596		10.78	0.223	0.3	1.02	11	<10	50	<0.5	11	0.94	<0.5	7	10	196	2.27
K917597		9.55	0.113	<0.2	1.23	7	<10	110	<0.5	8	0.81	<0.5	4	11	96	2.21
K917598		10.22	0.073	0.3	1.11	7	<10	50	<0.5	4	1.44	<0.5	7	12	176	2.59
K917599		8.84	0.184	0.3	0.94	9	<10	40	<0.5	17	1.15	<0.5	5	9	214	2.00
K917600		0.08	0.305	2.7	1.76	31	10	60	<0.5	<2	0.85	2.2	10	30	2530	4.55
K917601		7.86	1.035	0.2	0.88	15	<10	40	<0.5	27	1.22	<0.5	6	9	138	1.97
K917602		8.51	0.084	0.2	1.23	6	<10	60	<0.5	3	0.91	<0.5	6	11	156	2.50
K917603		10.66	0.082	0.3	0.96	18	<10	40	0.5	15	1.56	<0.5	7	9	245	2.49
K917604		10.27	0.049	0.2	1.01	10	<10	50	<0.5	3	0.96	<0.5	8	10	156	2.19
K917605		10.33	0.017	0.2	0.85	4	<10	80	<0.5	4	0.88	<0.5	6	11	143	2.13
K917606		10.62	0.642	0.2	1.13	7	<10	40	0.5	24	1.04	<0.5	8	9	206	2.70
K917607		10.01	0.035	0.2	1.13	4	<10	40	0.6	2	0.70	<0.5	8	11	228	2.87
K917608		10.63	1.435	0.5	1.17	4	<10	40	0.7	45	0.66	<0.5	16	12	513	3.59
K917609		10.61	0.118	0.4	1.13	77	<10	60	0.6	12	1.39	<0.5	13	8	358	4.04
K917610		0.45	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.10
K917611		10.70	0.090	<0.2	0.99	4	<10	50	<0.5	9	1.00	<0.5	5	13	146	2.26
K917612		10.68	0.378	0.3	1.01	5	<10	60	<0.5	12	0.80	<0.5	8	10	138	2.37
K917613		10.79	0.219	<0.2	0.92	5	<10	90	<0.5	6	0.72	<0.5	8	11	90	2.26
K917614		7.96	3.72	0.3	1.00	3	<10	80	<0.5	100	0.71	<0.5	9	12	130	2.55
K917615		7.94	0.044	0.2	0.96	7	<10	80	<0.5	2	0.74	<0.5	12	11	159	2.41
K917616		9.64	0.057	<0.2	1.00	5	<10	90	<0.5	3	0.97	<0.5	6	12	135	2.46
K917617		3.68	0.026	0.2	0.86	5	<10	70	0.6	4	1.49	<0.5	6	9	102	2.30
K917618		6.54	0.052	<0.2	1.03	5	<10	100	<0.5	6	0.96	<0.5	6	10	67	2.38
K917619		6.68	0.065	<0.2	0.95	9	<10	50	0.7	2	1.11	<0.5	7	9	146	2.51
K917620		0.08	0.363	2.9	1.81	30	10	60	<0.5	<2	0.86	2.3	11	31	2540	4.65
K917621		6.90	0.192	<0.2	0.90	17	<10	30	0.7	14	1.07	<0.5	7	8	133	2.54
K917622		5.99	0.235	0.4	0.61	26	<10	30	0.6	8	1.22	<0.5	13	7	358	3.26
K917623		7.03	0.108	0.2	0.95	9	<10	90	<0.5	4	0.78	<0.5	7	11	157	2.56
K917624		7.05	0.036	<0.2	0.95	3	<10	130	<0.5	2	0.71	<0.5	6	10	109	2.29
K917625		6.68	0.389	0.2	1.02	8	<10	70	<0.5	28	0.92	<0.5	8	11	204	2.54
K917626		6.45	0.030	0.2	1.12	15	<10	110	<0.5	5	1.07	<0.5	9	13	254	2.95
K917627		7.02	0.051	0.2	0.97	15	<10	50	<0.5	3	1.12	<0.5	8	10	219	2.44

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917588		10	1	0.31	20	0.68	187	1	0.06	4	630	6	0.58	<2	4	25
K917589		10	<1	0.22	30	0.62	131	1	0.04	4	620	6	0.79	<2	4	26
K917590		<10	<1	<0.01	<10	0.46	97	<1	0.01	<1	70	<2	0.01	<2	<1	91
K917591		10	<1	0.16	20	0.62	124	1	0.04	4	570	6	0.85	<2	3	20
K917592		10	<1	0.16	20	0.65	138	2	0.06	4	570	4	0.51	<2	4	26
K917593		10	<1	0.19	20	0.48	132	3	0.07	3	480	4	0.54	<2	3	28
K917594		10	<1	0.25	20	0.61	118	5	0.05	4	590	5	1.15	3	3	25
K917595		<10	<1	0.23	20	0.52	136	14	0.03	8	590	8	2.50	9	3	33
K917596		10	<1	0.20	20	0.55	139	2	0.05	4	510	4	0.59	2	3	28
K917597		10	1	0.25	20	0.68	158	1	0.09	4	560	3	0.34	2	4	34
K917598		10	<1	0.17	20	0.61	152	1	0.05	4	580	5	0.82	4	3	36
K917599		<10	<1	0.18	20	0.46	125	200	0.04	3	570	4	0.48	<2	3	36
K917600		10	<1	0.31	<10	0.58	768	256	0.05	22	740	77	2.20	2	2	58
K917601		10	<1	0.19	20	0.47	126	159	0.04	3	550	5	0.60	5	2	38
K917602		10	<1	0.25	20	0.66	154	10	0.07	4	580	4	0.59	4	4	47
K917603		10	<1	0.18	20	0.51	135	15	0.03	4	560	6	0.99	2	3	60
K917604		10	<1	0.21	20	0.56	133	<1	0.05	3	500	5	0.63	3	3	52
K917605		<10	<1	0.24	20	0.48	150	<1	0.05	3	490	7	0.57	<2	3	40
K917606		10	<1	0.26	30	0.73	147	1	0.04	4	560	5	0.85	3	4	44
K917607		10	<1	0.16	30	0.60	124	<1	0.04	5	580	6	0.83	3	3	68
K917608		10	<1	0.25	20	0.55	125	1	0.03	5	570	4	1.47	<2	3	59
K917609		<10	<1	0.19	20	0.48	162	1	0.03	4	560	8	2.19	6	3	77
K917610		<10	<1	0.01	<10	0.49	83	<1	0.01	<1	90	<2	<0.01	<2	<1	96
K917611		10	<1	0.18	20	0.54	148	1	0.05	4	530	4	0.54	2	3	50
K917612		10	<1	0.16	20	0.60	135	15	0.05	4	530	4	0.62	<2	4	30
K917613		10	<1	0.22	20	0.58	153	1	0.06	3	510	5	0.46	<2	4	39
K917614		10	<1	0.18	20	0.58	148	1	0.06	3	590	8	0.67	<2	5	31
K917615		10	<1	0.19	20	0.56	139	1	0.06	4	590	6	0.60	<2	4	37
K917616		10	<1	0.24	20	0.59	182	<1	0.06	4	560	6	0.55	<2	4	54
K917617		<10	<1	0.19	20	0.45	216	4	0.03	3	570	6	0.48	<2	3	118
K917618		<10	<1	0.21	30	0.55	224	1	0.06	5	610	6	0.27	<2	4	90
K917619		<10	<1	0.16	20	0.52	174	1	0.04	4	660	7	0.69	<2	3	91
K917620		<10	<1	0.31	<10	0.59	778	257	0.06	22	750	76	2.23	<2	2	59
K917621		<10	1	0.15	20	0.44	182	1	0.03	4	610	7	0.63	2	3	99
K917622		<10	<1	0.19	30	0.40	182	1	0.02	4	600	4	1.49	2	3	75
K917623		10	1	0.28	20	0.60	163	2	0.06	4	580	6	0.75	<2	4	45
K917624		<10	<1	0.35	20	0.58	164	18	0.07	3	540	5	0.48	2	4	30
K917625		10	<1	0.26	20	0.57	132	1	0.06	4	620	6	0.79	<2	4	42
K917626		10	<1	0.34	30	0.64	191	1	0.05	5	640	6	0.91	2	5	48
K917627		<10	<1	0.19	20	0.51	133	1	0.05	3	610	5	0.86	<2	3	48

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917588		20	0.08	<10	10	47	10	19
K917589		20	0.03	<10	10	39	<10	16
K917590		<20	<0.01	<10	<10	<1	<10	<2
K917591		20	0.05	<10	<10	36	10	17
K917592		20	0.08	<10	10	40	10	16
K917593		20	0.04	<10	10	37	<10	16
K917594		20	0.02	<10	10	32	<10	17
K917595		20	0.01	<10	10	30	<10	29
K917596		20	0.04	<10	10	32	<10	18
K917597		20	0.10	<10	10	42	<10	17
K917598		20	0.02	<10	<10	38	<10	16
K917599		20	0.01	<10	10	32	<10	16
K917600		<20	0.05	<10	<10	33	<10	450
K917601		20	0.01	<10	10	27	<10	14
K917602		20	0.04	<10	10	44	<10	17
K917603		20	0.01	<10	10	28	<10	19
K917604		<20	0.02	<10	10	35	<10	16
K917605		20	0.05	<10	10	35	<10	17
K917606		30	0.02	<10	10	41	<10	19
K917607		20	0.01	<10	10	43	<10	15
K917608		30	0.01	<10	10	34	<10	26
K917609		20	<0.01	<10	10	29	<10	23
K917610		<20	<0.01	<10	<10	<1	<10	<2
K917611		<20	0.03	<10	10	39	<10	15
K917612		20	0.07	<10	10	41	60	15
K917613		20	0.10	<10	10	43	30	14
K917614		20	0.11	<10	10	51	<10	17
K917615		20	0.05	<10	10	46	<10	15
K917616		20	0.03	<10	10	44	20	17
K917617		20	0.02	<10	10	27	<10	15
K917618		20	0.03	<10	10	43	<10	19
K917619		20	0.01	<10	10	34	<10	17
K917620		<20	0.05	<10	<10	33	<10	439
K917621		20	0.01	<10	10	29	<10	18
K917622		20	<0.01	<10	10	22	<10	16
K917623		20	0.04	<10	10	43	10	15
K917624		20	0.09	<10	10	45	<10	14
K917625		20	0.03	<10	10	44	10	15
K917626		20	0.05	<10	<10	48	<10	19
K917627		20	0.01	<10	10	36	<10	15

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917628		6.88	0.024	0.2	1.17	8	<10	70	0.5	3	1.26	<0.5	10	10	246	2.90
K917629		6.69	0.215	0.2	1.03	11	<10	70	0.6	5	1.16	<0.5	9	9	160	2.51
K917630		0.55	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	2	2	0.11
K917631		6.93	0.020	0.2	1.10	4	<10	150	<0.5	2	0.86	<0.5	7	10	174	2.60
K917632		6.95	0.065	0.2	1.11	3	<10	190	<0.5	<2	0.93	<0.5	7	12	147	2.70
K917633		6.43	0.075	<0.2	1.04	2	<10	120	<0.5	4	1.13	<0.5	6	11	105	2.40
K917634		6.85	0.041	<0.2	0.93	2	<10	110	<0.5	<2	0.89	<0.5	7	10	117	2.30
K917635		6.65	0.019	0.2	0.58	13	<10	80	0.5	8	0.91	<0.5	7	8	194	2.58
K917636		6.84	0.045	0.2	0.91	303	<10	140	<0.5	<2	0.69	<0.5	7	11	183	2.52
K917637		6.85	0.169	0.2	0.88	17	<10	140	<0.5	4	1.03	<0.5	6	10	120	2.19
K917638		6.27	0.072	0.2	0.97	5	<10	130	<0.5	10	0.98	<0.5	7	11	186	2.44
K917639		6.94	0.033	<0.2	0.90	4	<10	190	<0.5	3	1.13	<0.5	5	10	72	2.23
K917640		0.08	0.360	2.6	1.59	25	<10	60	<0.5	<2	0.80	2.1	9	27	2360	4.25
K917641		6.61	0.215	<0.2	0.83	4	<10	170	<0.5	7	0.91	<0.5	6	10	76	2.25
K917642		7.14	0.242	0.4	0.62	31	<10	70	0.5	12	1.09	<0.5	9	7	200	2.46
K917643		6.61	0.029	0.2	0.69	7	<10	70	0.5	3	1.02	<0.5	8	7	231	2.71
K917644		6.32	0.261	0.2	0.98	8	<10	90	<0.5	6	1.02	<0.5	9	10	180	2.78
K917645		7.04	0.035	0.2	0.91	6	<10	110	<0.5	3	0.89	<0.5	8	10	198	2.62
K917646		6.47	0.048	0.2	0.61	16	<10	170	<0.5	<2	1.30	<0.5	6	9	132	2.14
K917647		7.08	0.902	0.2	0.64	12	<10	210	<0.5	32	1.18	<0.5	6	12	116	2.39
K917648		5.13	0.152	<0.2	0.39	15	<10	40	0.6	3	1.61	<0.5	7	5	98	2.23
K917649		6.40	0.197	0.3	0.41	37	<10	140	0.8	9	2.21	<0.5	9	4	159	2.79
K917650		0.45	<0.005	<0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	1	0.13
K917651		6.31	0.199	<0.2	0.51	17	<10	80	0.5	6	1.50	<0.5	6	6	120	2.25
K917652		6.02	0.366	0.3	0.30	205	<10	50	0.7	13	3.32	<0.5	6	4	192	2.53
K917653		2.90	0.185	0.2	0.39	156	<10	120	1.0	4	2.05	<0.5	6	4	96	1.68
K917654		3.70	1.530	0.2	0.36	119	<10	40	0.6	53	1.58	<0.5	8	5	179	2.17
K917655		5.56	0.050	0.2	0.52	14	<10	50	0.7	2	1.44	<0.5	8	6	191	2.57
K917656		6.71	0.179	0.3	0.62	31	<10	80	0.5	8	1.42	<0.5	10	6	267	2.75
K917657		6.89	0.056	0.5	0.35	26	<10	70	<0.5	4	0.81	<0.5	14	7	510	3.35

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917628		10	<1	0.22	20	0.66	179	1	0.05	4	570	6	0.97	<2	4	74
K917629		<10	1	0.19	20	0.52	183	85	0.04	4	610	6	0.71	<2	4	73
K917630		<10	<1	<0.01	<10	0.57	83	<1	<0.01	<1	60	<2	<0.01	<2	<1	87
K917631		<10	1	0.33	20	0.65	201	1	0.07	5	610	5	0.63	<2	4	42
K917632		10	1	0.41	20	0.68	216	<1	0.09	4	640	4	0.57	<2	5	42
K917633		<10	<1	0.24	20	0.61	212	1	0.07	4	570	4	0.47	<2	4	46
K917634		<10	<1	0.26	20	0.57	181	1	0.07	3	530	3	0.53	<2	4	43
K917635		<10	<1	0.23	20	0.48	200	205	0.05	4	590	6	0.79	3	4	62
K917636		<10	<1	0.29	20	0.58	169	1	0.07	4	570	9	0.75	<2	4	33
K917637		<10	1	0.28	20	0.51	192	1	0.06	3	540	16	0.55	<2	3	42
K917638		<10	<1	0.25	20	0.59	204	2	0.07	4	540	5	0.66	2	4	53
K917639		<10	<1	0.29	20	0.54	245	1	0.06	4	570	5	0.32	<2	4	68
K917640		<10	<1	0.27	<10	0.54	709	218	0.06	19	690	71	2.10	2	2	51
K917641		<10	<1	0.28	20	0.52	251	1	0.07	4	560	5	0.33	<2	4	59
K917642		<10	<1	0.21	20	0.45	214	2	0.04	4	600	22	0.87	2	3	70
K917643		<10	<1	0.15	20	0.53	178	1	0.04	4	580	6	1.03	<2	3	74
K917644		<10	<1	0.20	20	0.62	221	1	0.06	5	600	6	0.82	<2	4	73
K917645		10	<1	0.22	20	0.59	172	1	0.06	4	580	6	0.84	<2	4	54
K917646		<10	<1	0.16	30	0.51	205	<1	0.04	4	450	7	0.57	<2	3	90
K917647		<10	1	0.26	20	0.57	242	1	0.05	4	540	9	0.52	2	4	81
K917648		<10	<1	0.14	20	0.53	233	64	0.01	3	540	10	0.52	2	4	146
K917649		<10	<1	0.19	20	0.63	302	1	0.03	5	660	15	1.11	3	5	144
K917650		<10	1	0.01	<10	1.40	127	<1	0.01	<1	60	<2	0.01	<2	<1	76
K917651		<10	<1	0.17	20	0.51	247	1	0.03	4	580	8	0.53	2	5	95
K917652		<10	<1	0.15	10	1.31	424	7	0.01	3	310	12	1.47	7	3	126
K917653		<10	<1	0.16	10	0.72	254	1	0.02	2	330	9	0.88	6	2	78
K917654		<10	<1	0.17	10	0.55	261	157	0.01	3	510	15	1.10	6	3	59
K917655		<10	1	0.16	20	0.50	228	<1	0.02	4	630	6	0.75	2	4	86
K917656		<10	<1	0.20	20	0.50	183	1	0.03	4	560	5	1.10	2	3	82
K917657		<10	<1	0.25	10	0.31	163	<1	0.02	4	480	5	1.76	3	1	41

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
K917628		20	0.02	<10	10	43	<10	17
K917629		20	0.01	<10	10	37	30	16
K917630		<20	<0.01	<10	<10	<1	<10	3
K917631		20	0.09	<10	10	48	<10	17
K917632		20	0.12	<10	10	52	10	18
K917633		20	0.05	<10	10	47	<10	17
K917634		20	0.05	<10	10	41	20	15
K917635		30	0.02	<10	10	27	80	16
K917636		20	0.05	<10	10	43	<10	15
K917637		20	0.05	<10	10	37	<10	22
K917638		20	0.04	<10	10	41	110	19
K917639		20	0.06	<10	10	40	<10	17
K917640		<20	0.04	<10	<10	29	<10	417
K917641		20	0.06	<10	10	41	10	17
K917642		20	0.01	<10	10	23	160	18
K917643		20	0.01	<10	10	30	<10	16
K917644		20	0.02	<10	10	43	<10	21
K917645		20	0.03	<10	<10	44	<10	16
K917646		30	0.01	<10	10	28	<10	19
K917647		20	0.04	<10	10	31	<10	18
K917648		20	<0.01	<10	<10	15	<10	15
K917649		20	<0.01	<10	10	15	<10	21
K917650		<20	<0.01	<10	<10	<1	<10	<2
K917651		20	0.01	<10	10	21	<10	18
K917652		<20	<0.01	<10	10	11	<10	16
K917653		<20	<0.01	<10	10	10	<10	12
K917654		20	<0.01	<10	<10	12	<10	17
K917655		20	<0.01	<10	10	15	<10	17
K917656		20	<0.01	<10	10	19	<10	15
K917657		20	<0.01	<10	10	6	<10	16

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156166

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17156176

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 226 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 27- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I026368		6.29	0.066	0.6	0.40	51	<10	110	0.6	4	1.74	<0.5	8	5	257	2.41
I026369		5.68	0.028	0.3	1.00	7	<10	160	<0.5	<2	1.08	<0.5	7	10	183	2.75
I026370		0.34	0.005	<0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	1	0.06
I026371		5.58	0.037	0.3	1.19	4	<10	160	<0.5	2	0.77	<0.5	7	11	144	2.79
I026372		6.08	0.026	0.3	1.10	5	<10	140	<0.5	3	0.70	<0.5	6	10	178	2.67
I026373		5.72	0.014	<0.2	1.08	4	<10	160	<0.5	<2	0.68	<0.5	4	12	61	2.47
I026374		5.58	0.089	0.8	1.27	4	<10	90	<0.5	<2	1.11	<0.5	6	10	441	3.15
I026375		5.69	0.021	0.3	0.99	15	<10	100	<0.5	2	0.93	<0.5	7	11	160	2.86
I026376		7.32	0.040	0.4	0.63	26	<10	110	0.5	2	1.13	<0.5	7	7	220	2.69
I026377		5.08	0.064	0.5	0.73	29	<10	70	<0.5	10	1.37	<0.5	9	8	291	2.60
I026378		5.68	0.041	0.5	0.57	13	<10	170	<0.5	4	1.03	<0.5	8	7	275	2.77
I026379		5.92	0.049	0.5	0.30	10	<10	70	0.6	<2	1.85	<0.5	17	5	296	2.72
I026380		0.06	0.359	2.5	1.59	26	10	60	<0.5	3	0.82	2.1	10	28	2450	4.42
I026381		5.96	0.020	0.5	0.33	14	<10	50	0.5	17	1.88	<0.5	7	5	233	2.89
I026382		5.81	0.030	0.7	0.31	31	<10	70	0.5	3	1.28	<0.5	4	6	378	2.75
I026383		6.11	0.034	0.7	0.33	25	<10	100	0.7	3	2.38	<0.5	7	5	373	2.83
I026384		4.11	0.009	<0.2	0.35	8	<10	50	0.7	<2	3.50	<0.5	5	5	63	2.28
I026385		4.63	0.102	0.3	0.33	126	<10	60	0.6	2	3.31	<0.5	10	4	191	3.15
I026386		5.11	0.025	0.4	0.34	36	<10	230	0.8	<2	3.97	<0.5	6	4	172	2.25
I026387		5.64	0.030	0.6	0.32	37	<10	250	0.9	5	3.41	<0.5	8	3	196	2.43
I026388		4.13	0.037	8.2	0.36	24	<10	600	0.8	<2	2.24	<0.5	6	3	271	2.29
I026389		4.19	0.050	0.4	0.22	43	<10	300	0.7	7	8.1	<0.5	16	4	86	3.19
I026390		0.37	<0.005	<0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	<1	3	0.09
I026391		3.93	0.094	0.6	0.28	235	<10	180	0.7	<2	3.63	<0.5	2	4	204	2.60
I026392		4.75	0.226	0.5	0.31	235	<10	130	0.7	2	1.50	0.5	12	4	280	2.72
I026393		4.55	0.032	0.5	0.27	68	<10	560	0.6	<2	1.58	1.4	4	4	186	2.29
I026394		4.56	0.124	0.4	0.31	62	<10	400	0.6	3	1.51	0.7	12	4	171	2.56
I026395		4.63	0.111	0.4	0.30	130	<10	180	0.6	2	1.62	1.4	5	4	112	2.59
I026396		4.30	0.064	0.3	0.31	123	<10	230	0.6	2	1.69	1.4	2	4	139	2.16
I026397		4.91	0.034	1.0	0.30	49	<10	580	0.6	3	2.35	5.3	1	4	313	2.04
I026398		4.70	0.014	0.4	0.33	30	<10	610	0.6	<2	2.98	1.2	1	4	81	1.81
I026399		4.59	0.020	0.7	0.31	66	<10	390	0.6	3	2.46	1.4	2	6	133	1.98
I026400		0.08	0.777	2.9	1.13	14	10	110	<0.5	3	0.76	<0.5	10	46	7850	2.51
K917658		7.04	0.160	0.6	0.50	8	<10	80	<0.5	12	0.73	<0.5	16	7	512	3.68
K917659		6.39	0.060	0.3	0.37	33	<10	40	0.6	4	0.87	<0.5	9	4	266	2.39
K917660		0.06	0.311	2.6	1.62	27	10	60	<0.5	2	0.82	2.3	10	28	2500	4.48
K917661		6.10	0.198	0.2	0.33	250	<10	90	0.6	8	1.42	<0.5	9	4	195	2.39
K917662		6.97	0.027	<0.2	0.53	15	<10	70	0.6	3	1.33	<0.5	6	6	133	2.34
K917663		6.76	0.032	0.2	0.56	224	<10	70	0.6	2	1.28	<0.5	7	7	150	2.27
K917664		7.05	0.020	<0.2	0.66	8	<10	100	<0.5	2	1.03	<0.5	6	8	109	2.19

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026368		<10	<1	0.19	20	0.63	129	219	0.04	4	710	9	0.94	<2	4	107
I026369		<10	1	0.39	30	0.69	135	10	0.07	5	710	4	0.49	2	5	70
I026370		<10	<1	<0.01	<10	0.38	65	<1	0.01	<1	70	<2	0.01	3	<1	90
I026371		10	<1	0.60	20	0.85	127	17	0.08	5	710	4	0.34	<2	5	39
I026372		10	<1	0.46	20	0.86	115	28	0.06	5	680	4	0.49	<2	5	32
I026373		10	1	0.52	20	0.81	132	15	0.08	5	650	4	0.32	<2	4	39
I026374		10	<1	0.44	20	0.90	141	31	0.07	5	730	4	0.55	<2	6	45
I026375		<10	<1	0.39	20	0.78	128	10	0.07	5	730	3	0.54	<2	6	90
I026376		<10	1	0.21	20	0.55	123	21	0.04	5	710	6	0.54	2	5	92
I026377		<10	<1	0.21	20	0.76	147	23	0.04	4	690	7	0.77	<2	5	84
I026378		<10	1	0.16	20	0.60	124	21	0.04	5	680	7	0.74	<2	5	95
I026379		<10	1	0.17	20	0.70	169	45	0.03	4	640	8	1.00	<2	4	109
I026380		<10	<1	0.28	<10	0.55	726	227	0.06	21	680	74	2.16	3	2	52
I026381		<10	<1	0.17	20	0.75	192	16	0.03	4	650	17	0.86	<2	4	97
I026382		<10	<1	0.16	20	0.57	174	11	0.04	5	710	10	0.66	<2	5	78
I026383		<10	1	0.17	20	0.90	260	46	0.03	4	700	14	0.78	<2	5	124
I026384		<10	1	0.18	20	1.34	267	1	0.03	4	610	13	0.56	<2	6	186
I026385		<10	<1	0.16	10	1.31	189	11	0.03	4	600	7	1.96	3	4	218
I026386		<10	<1	0.16	10	1.53	287	8	0.03	3	560	8	0.93	2	5	169
I026387		<10	<1	0.15	10	1.16	298	9	0.03	4	520	10	0.93	3	5	156
I026388		<10	<1	0.16	10	0.85	177	10	0.02	4	580	5	0.46	<2	5	134
I026389		<10	1	0.10	<10	3.60	1185	1	0.02	2	290	24	0.74	2	3	218
I026390		<10	1	0.01	<10	1.00	101	<1	0.01	<1	70	<2	0.02	<2	<1	91
I026391		<10	1	0.14	10	1.46	644	3	0.02	4	500	44	1.10	3	3	172
I026392		<10	1	0.17	10	0.67	422	4	0.02	4	560	32	1.36	<2	4	153
I026393		<10	1	0.15	10	0.77	456	3	0.02	3	550	40	0.28	<2	4	147
I026394		<10	1	0.18	10	0.72	436	3	0.02	3	580	38	0.75	<2	4	141
I026395		<10	1	0.17	10	0.72	437	3	0.02	4	590	38	1.13	2	4	178
I026396		<10	<1	0.17	10	0.71	451	6	0.02	2	630	37	0.65	<2	4	327
I026397		<10	<1	0.17	10	0.88	542	4	0.02	3	600	121	0.49	<2	4	273
I026398		<10	1	0.17	10	1.11	560	3	0.02	2	550	45	0.14	<2	4	268
I026399		<10	<1	0.16	10	0.93	544	1	0.02	2	560	74	0.38	<2	4	259
I026400		<10	1	0.10	<10	0.55	390	362	0.08	32	490	5	0.62	<2	4	37
K917658		<10	<1	0.27	20	0.44	177	1	0.03	5	550	7	1.88	2	2	50
K917659		<10	1	0.19	20	0.37	150	1	0.02	3	520	5	1.02	4	2	59
K917660		<10	<1	0.29	<10	0.56	733	222	0.06	20	700	74	2.20	3	2	53
K917661		<10	<1	0.16	20	0.46	195	1	0.03	3	500	6	0.78	2	3	161
K917662		<10	<1	0.17	30	0.52	218	1	0.04	3	570	5	0.53	<2	4	88
K917663		<10	1	0.17	20	0.46	232	<1	0.04	3	570	6	0.53	2	4	84
K917664		<10	<1	0.27	20	0.55	296	1	0.06	3	570	3	0.38	2	4	63

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I026368		20	0.01	<10	10	23	<10	41	
I026369		20	0.08	<10	<10	52	<10	24	
I026370		<20	<0.01	<10	<10	<1	<10	4	
I026371		20	0.16	<10	<10	62	<10	15	
I026372		20	0.15	<10	<10	59	<10	13	
I026373		20	0.15	<10	<10	56	<10	12	
I026374		20	0.10	<10	10	65	<10	22	
I026375		20	0.07	<10	10	56	<10	14	
I026376		<20	0.02	<10	<10	38	<10	18	
I026377		<20	0.02	<10	10	39	<10	60	
I026378		<20	0.01	<10	<10	35	<10	18	
I026379		20	<0.01	<10	<10	16	<10	24	
I026380		<20	0.04	<10	<10	30	<10	437	
I026381		<20	<0.01	<10	10	22	<10	28	
I026382		20	<0.01	<10	<10	23	<10	40	
I026383		20	<0.01	<10	<10	23	<10	39	
I026384		20	<0.01	<10	10	25	<10	14	
I026385		<20	<0.01	<10	<10	19	<10	15	
I026386		<20	<0.01	<10	10	24	<10	11	
I026387		<20	<0.01	<10	10	23	<10	24	
I026388		<20	<0.01	<10	<10	20	10	29	
I026389		<20	<0.01	<10	<10	15	<10	25	
I026390		<20	<0.01	<10	<10	<1	<10	<2	
I026391		<20	<0.01	<10	<10	13	<10	23	
I026392		<20	<0.01	<10	<10	10	<10	50	
I026393		<20	<0.01	<10	<10	13	<10	108	
I026394		<20	<0.01	<10	<10	11	<10	59	
I026395		<20	<0.01	<10	<10	12	<10	118	
I026396		<20	<0.01	<10	<10	12	<10	114	
I026397		<20	<0.01	<10	<10	11	<10	393	
I026398		<20	<0.01	<10	<10	13	<10	92	
I026399		<20	<0.01	<10	<10	15	<10	109	
I026400		<20	0.11	<10	<10	48	30	56	
K917658		20	0.01	<10	<10	19	<10	21	
K917659		20	<0.01	<10	<10	11	<10	13	
K917660		<20	0.04	<10	<10	30	<10	438	
K917661		20	<0.01	<10	10	12	<10	24	
K917662		20	0.01	<10	10	24	<10	19	
K917663		20	0.01	<10	10	23	10	22	
K917664		20	0.04	<10	<10	33	<10	21	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917665		6.79	0.078	0.2	0.58	8	<10	100	<0.5	2	0.91	<0.5	6	8	148	2.29
K917666		6.62	0.014	0.2	0.38	50	<10	90	0.7	<2	1.87	<0.5	8	5	180	2.27
K917667		7.07	0.023	0.2	0.39	26	<10	50	0.6	3	1.69	<0.5	9	8	257	2.84
K917668		7.08	0.041	0.3	0.46	25	<10	60	0.5	3	1.09	<0.5	9	6	267	2.74
K917669		7.15	0.065	0.3	0.81	16	<10	90	<0.5	6	1.02	<0.5	6	10	207	2.41
K917670		0.43	<0.005	<0.2	0.02	<2	10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.09
K917671		6.64	0.026	<0.2	0.72	15	<10	120	0.5	2	1.12	<0.5	6	8	109	2.42
K917672		6.88	0.115	0.3	0.72	129	<10	90	<0.5	7	1.01	2.2	8	8	143	2.43
K917673		6.85	0.206	0.3	0.61	23	<10	60	0.6	4	1.24	<0.5	9	7	203	2.55
K917674		6.99	1.170	0.3	0.66	13	<10	50	<0.5	37	0.98	<0.5	8	10	208	2.51
K917675		5.97	0.052	0.2	0.78	52	<10	70	<0.5	6	0.76	<0.5	7	9	169	2.42
K917676		7.11	0.018	<0.2	0.80	153	<10	100	<0.5	2	0.82	<0.5	5	9	88	2.01
K917677		5.90	0.010	0.3	0.78	88	<10	100	0.6	5	1.05	<0.5	7	9	108	2.27
K917678		6.73	0.012	0.2	0.59	28	<10	60	0.5	8	1.10	<0.5	6	8	145	2.27
K917679		7.01	0.034	0.2	0.85	26	<10	70	0.8	3	0.95	<0.5	7	7	139	2.65
K917680		0.06	0.338	2.9	1.60	29	10	60	<0.5	<2	0.84	2.1	10	30	2620	4.78
K917681		6.30	0.041	0.4	0.37	185	<10	60	0.7	4	1.64	<0.5	9	4	299	2.65
K917682		6.53	0.072	0.3	1.09	1290	<10	80	0.6	5	1.24	<0.5	10	11	195	3.42
K917683		6.37	0.122	0.2	0.88	93	<10	50	0.6	3	0.71	<0.5	8	8	176	2.36
K917684		7.19	0.009	<0.2	0.88	47	<10	100	<0.5	<2	0.85	<0.5	6	10	108	2.18
K917685		7.19	0.052	0.2	0.93	4	<10	150	<0.5	3	0.81	<0.5	6	9	78	2.27
K917686		6.87	0.013	<0.2	0.99	6	<10	130	<0.5	2	0.76	<0.5	6	10	101	2.29
K917687		7.10	0.107	0.3	0.48	83	<10	70	0.7	8	1.93	<0.5	7	6	99	2.30
K917688		7.13	0.647	<0.2	0.68	9	<10	90	<0.5	24	1.26	<0.5	7	9	92	2.45
K917689		6.32	0.158	1.1	0.63	29	<10	50	0.7	31	1.34	<0.5	8	7	326	2.31
K917690		0.48	<0.005	<0.2	0.03	2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.09
K917691		6.94	0.175	0.3	1.17	8	<10	80	<0.5	3	1.19	<0.5	8	11	205	2.82
K917692		6.86	0.013	<0.2	1.10	8	<10	110	<0.5	2	0.81	<0.5	5	14	113	2.42
K917693		7.34	0.019	0.5	1.09	3	<10	90	0.5	4	0.76	<0.5	15	9	398	3.53
K917694		6.84	0.381	<0.2	0.88	2	<10	140	<0.5	17	0.63	<0.5	8	10	125	2.22
K917695		7.17	0.422	0.7	0.90	4	<10	80	<0.5	28	0.50	<0.5	22	8	596	3.57
K917696		6.69	1.178	0.2	0.81	2	<10	140	<0.5	16	0.62	<0.5	7	10	93	2.07
K917697		7.12	0.369	0.2	0.80	29	<10	90	<0.5	11	0.91	<0.5	7	9	137	2.05
K917698		7.16	0.176	<0.2	0.73	7	<10	70	<0.5	7	1.04	<0.5	6	8	124	2.08
K917699		6.97	0.360	<0.2	0.77	5	<10	100	<0.5	11	0.73	<0.5	4	10	55	1.79
K917700		0.06	0.323	2.6	1.60	25	10	60	<0.5	2	0.78	2.0	10	27	2310	4.20
K917701		7.15	0.546	<0.2	0.80	3	<10	130	<0.5	8	0.79	<0.5	6	9	75	1.98
K917702		6.86	0.089	<0.2	0.79	2	<10	110	<0.5	3	0.93	<0.5	6	9	50	1.94
K917703		7.06	0.252	0.2	0.97	2	<10	70	<0.5	14	0.62	<0.5	11	11	299	2.89
K917704		6.92	0.168	<0.2	0.89	4	<10	150	<0.5	<2	0.90	<0.5	7	10	42	2.06

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917665		<10	1	0.23	20	0.53	246	<1	0.06	3	540	4	0.47	2	4	58
K917666		<10	<1	0.18	20	0.62	266	29	0.03	3	510	6	0.66	4	4	90
K917667		<10	<1	0.17	20	0.62	221	9	0.04	4	580	5	0.92	3	4	75
K917668		<10	<1	0.19	20	0.45	164	2	0.03	4	520	7	1.01	3	3	73
K917669		<10	<1	0.24	20	0.57	207	2	0.06	4	570	6	0.59	<2	4	72
K917670		<10	<1	0.01	<10	0.66	94	<1	0.01	<1	70	<2	0.01	2	<1	99
K917671		<10	<1	0.26	30	0.57	265	1	0.05	4	610	6	0.45	<2	4	95
K917672		<10	<1	0.29	20	0.54	283	<1	0.05	4	630	57	0.53	2	4	79
K917673		<10	<1	0.21	20	0.56	268	1	0.04	5	610	7	0.62	<2	4	88
K917674		<10	<1	0.21	20	0.51	175	2	0.04	4	600	7	0.82	3	3	63
K917675		<10	<1	0.32	30	0.46	236	1	0.06	4	610	5	0.64	7	4	53
K917676		<10	<1	0.34	20	0.49	251	<1	0.07	3	490	8	0.33	4	3	52
K917677		<10	1	0.32	20	0.53	236	<1	0.04	4	670	11	0.44	2	4	88
K917678		<10	<1	0.24	20	0.45	208	<1	0.04	4	550	7	0.61	5	4	68
K917679		<10	<1	0.23	20	0.40	212	2	0.05	4	630	6	0.51	3	5	72
K917680		<10	<1	0.31	<10	0.59	786	240	0.06	22	790	78	2.29	<2	2	59
K917681		<10	1	0.22	20	0.55	278	1	0.02	3	560	11	1.17	21	3	119
K917682		10	1	0.45	20	0.81	239	<1	0.05	5	730	8	0.94	5	6	75
K917683		<10	<1	0.19	20	0.43	176	<1	0.04	4	590	8	0.79	11	3	117
K917684		<10	<1	0.27	20	0.46	229	<1	0.06	4	570	8	0.50	2	3	47
K917685		<10	<1	0.31	20	0.59	277	<1	0.07	5	590	5	0.34	2	3	38
K917686		10	<1	0.34	20	0.61	233	2	0.07	4	620	5	0.40	<2	3	36
K917687		<10	<1	0.23	20	0.62	326	<1	0.03	4	630	14	0.83	7	4	108
K917688		<10	1	0.26	20	0.50	283	<1	0.05	4	610	7	0.45	<2	4	91
K917689		<10	<1	0.18	20	0.47	214	1240	0.03	4	590	17	0.78	3	4	107
K917690		<10	1	<0.01	<10	0.53	90	3	0.01	<1	60	<2	0.01	<2	<1	97
K917691		10	<1	0.33	30	0.71	221	4	0.07	5	710	6	0.69	<2	5	51
K917692		<10	<1	0.34	20	0.67	209	1	0.08	4	620	6	0.42	<2	4	35
K917693		<10	<1	0.32	20	0.58	141	1	0.04	4	610	4	1.47	<2	4	26
K917694		<10	<1	0.29	30	0.59	155	<1	0.06	5	570	6	0.55	<2	4	24
K917695		<10	<1	0.25	20	0.39	111	1	0.03	5	460	5	1.80	2	2	18
K917696		<10	<1	0.34	20	0.57	154	4	0.06	3	510	5	0.53	<2	4	24
K917697		<10	<1	0.28	20	0.51	182	1	0.05	4	500	11	0.56	<2	3	32
K917698		<10	<1	0.24	20	0.43	180	7	0.05	3	440	8	0.72	<2	3	38
K917699		<10	<1	0.26	20	0.46	205	<1	0.07	3	460	7	0.28	3	3	29
K917700		<10	1	0.28	<10	0.53	688	230	0.06	19	670	72	2.08	3	2	52
K917701		<10	<1	0.33	20	0.50	204	<1	0.06	3	470	5	0.35	<2	4	35
K917702		<10	<1	0.24	20	0.46	199	<1	0.06	3	470	4	0.33	<2	3	47
K917703		<10	1	0.29	20	0.47	136	<1	0.04	4	530	4	1.12	<2	3	26
K917704		<10	<1	0.29	20	0.55	271	<1	0.07	6	560	7	0.22	<2	4	56

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K917665		20	0.02	<10	<10	31	<10	17	
K917666		20	0.01	<10	10	19	<10	20	
K917667		20	<0.01	<10	<10	18	<10	17	
K917668		20	<0.01	<10	10	18	<10	17	
K917669		20	0.03	<10	10	35	<10	21	
K917670		<20	<0.01	<10	<10	<1	<10	<2	
K917671		20	0.03	<10	10	31	<10	19	
K917672		20	0.04	<10	10	35	<10	139	
K917673		20	0.01	<10	10	28	<10	20	
K917674		20	0.01	<10	10	29	20	17	
K917675		20	0.05	<10	10	35	<10	19	
K917676		20	0.06	<10	10	36	<10	20	
K917677		20	0.03	<10	10	33	<10	19	
K917678		20	0.01	<10	10	21	<10	18	
K917679		20	0.02	<10	10	28	<10	23	
K917680		<20	0.04	<10	<10	33	<10	439	
K917681		20	<0.01	<10	10	8	<10	22	
K917682		20	0.04	<10	10	45	<10	23	
K917683		20	0.01	<10	10	27	<10	21	
K917684		20	0.05	<10	10	35	<10	24	
K917685		20	0.09	<10	10	47	<10	20	
K917686		20	0.11	<10	10	47	<10	18	
K917687		20	<0.01	<10	10	20	<10	23	
K917688		30	0.03	<10	10	33	<10	21	
K917689		20	<0.01	<10	10	23	<10	32	
K917690		<20	<0.01	<10	<10	<1	<10	<2	
K917691		20	0.06	<10	10	54	<10	21	
K917692		20	0.10	<10	10	49	<10	19	
K917693		20	0.04	<10	10	38	<10	15	
K917694		20	0.11	<10	<10	47	10	14	
K917695		20	0.04	<10	10	27	20	17	
K917696		20	0.11	<10	10	41	20	13	
K917697		20	0.07	<10	10	35	<10	17	
K917698		20	0.04	<10	10	28	10	17	
K917699		20	0.08	<10	10	34	<10	18	
K917700		<20	0.04	<10	<10	30	<10	407	
K917701		<20	0.08	<10	10	39	<10	17	
K917702		<20	0.05	<10	10	37	<10	14	
K917703		<20	0.03	<10	10	32	<10	13	
K917704		20	0.07	<10	10	45	<10	21	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917705		6.23	0.103	<0.2	0.95	6	<10	80	<0.5	13	1.09	<0.5	7	9	64	2.23
K917706		6.87	0.044	0.2	0.95	9	<10	70	<0.5	2	0.89	<0.5	6	9	103	2.24
K917707		6.67	0.024	<0.2	0.91	8	<10	160	<0.5	2	0.66	<0.5	6	9	61	2.12
K917708		6.91	0.297	<0.2	0.76	12	<10	90	<0.5	5	0.77	<0.5	5	9	66	1.72
K917709		6.61	0.036	<0.2	0.83	14	<10	70	<0.5	<2	0.88	<0.5	5	9	74	1.91
K917710		0.46	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	<1	0.09
K917711		6.96	0.028	<0.2	0.95	12	<10	90	<0.5	2	0.78	<0.5	6	9	98	2.16
K917712		7.04	0.025	<0.2	0.91	318	<10	90	<0.5	<2	1.00	<0.5	6	8	43	1.98
K917713		6.38	0.006	<0.2	0.87	16	<10	60	<0.5	<2	0.87	<0.5	6	7	72	2.10
K917714		6.44	0.009	0.3	0.94	5	<10	170	<0.5	7	0.80	<0.5	5	8	80	2.20
K917715		6.61	0.013	<0.2	0.83	3	<10	120	<0.5	<2	0.64	<0.5	6	9	89	1.98
K917716		7.02	0.138	<0.2	0.92	3	<10	130	<0.5	8	0.65	<0.5	7	8	98	2.19
K917717		7.13	1.035	0.2	0.89	5	<10	80	<0.5	30	0.95	<0.5	6	8	65	2.07
K917718		6.87	0.031	<0.2	0.88	5	<10	110	<0.5	<2	0.95	<0.5	6	11	59	2.16
K917719		6.77	0.016	<0.2	0.72	141	<10	110	<0.5	<2	1.01	1.4	5	8	77	1.92
K917720		0.07	0.775	2.9	1.15	14	10	110	<0.5	<2	0.74	<0.5	10	48	7940	2.49
K917721		5.29	0.012	0.3	0.78	14	<10	70	0.5	20	1.24	<0.5	6	7	217	2.06
K917722		3.13	0.013	0.3	0.70	9	<10	110	<0.5	6	1.02	<0.5	6	8	141	2.17
K917723		4.77	0.045	<0.2	0.30	22	<10	50	0.6	<2	0.84	<0.5	5	5	115	1.77
K917724		6.40	0.023	<0.2	0.37	20	<10	40	0.7	<2	1.11	<0.5	5	4	89	2.02
K917725		7.30	0.011	<0.2	0.30	21	<10	40	0.6	3	2.14	<0.5	7	3	140	1.83
K917726		6.80	0.031	0.3	0.35	11	<10	80	<0.5	13	0.75	<0.5	9	8	174	1.73
K917727		4.28	0.022	0.2	0.87	222	<10	120	<0.5	<2	0.70	0.6	4	8	67	1.37
K917728		5.28	0.037	<0.2	1.04	10	<10	160	<0.5	<2	0.85	<0.5	6	10	89	2.25
K917729		6.57	0.066	<0.2	0.91	6	<10	180	<0.5	<2	0.88	<0.5	6	8	64	2.19
K917730		0.49	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	<1	0.08
K917731		6.68	0.185	<0.2	0.93	8	<10	150	<0.5	8	0.83	<0.5	5	8	84	2.02
K917732		6.80	0.075	<0.2	1.02	9	<10	100	<0.5	21	1.25	<0.5	6	9	121	2.15
K917733		7.02	0.011	<0.2	0.89	3	<10	190	<0.5	2	0.60	<0.5	6	10	49	2.03
K917734		6.93	<0.005	<0.2	0.74	4	<10	190	<0.5	<2	0.53	<0.5	4	8	15	1.74
K917735		6.69	0.060	<0.2	0.87	5	<10	170	<0.5	3	0.79	<0.5	5	11	45	2.05
K917736		6.83	<0.005	<0.2	0.79	3	<10	150	<0.5	<2	0.59	<0.5	4	8	14	1.82
K917737		6.78	0.027	<0.2	1.13	13	<10	70	<0.5	2	0.97	<0.5	7	10	109	2.35
K917738		6.67	0.013	<0.2	0.75	147	<10	80	0.6	<2	2.26	<0.5	6	8	73	2.84
K917739		7.11	<0.005	<0.2	0.89	3	<10	190	<0.5	<2	0.86	<0.5	5	10	28	2.23
K917740		0.08	0.337	2.8	1.71	29	10	60	<0.5	<2	0.82	2.2	11	29	2470	4.42
K917741		6.62	0.009	<0.2	0.94	12	<10	70	<0.5	<2	0.94	<0.5	6	9	72	2.10
K917742		6.79	0.006	<0.2	0.88	14	<10	70	<0.5	<2	0.84	<0.5	4	9	48	1.84
K917743		7.00	<0.005	<0.2	0.82	10	<10	80	<0.5	<2	0.78	<0.5	4	7	52	1.80
K917744		6.37	0.010	<0.2	1.00	10	<10	70	0.5	<2	0.98	<0.5	6	9	111	2.17

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917705		<10	<1	0.25	20	0.55	265	1	0.06	4	600	7	0.36	<2	4	55
K917706		<10	<1	0.22	20	0.60	219	<1	0.06	4	620	6	0.43	<2	4	32
K917707		<10	<1	0.31	20	0.59	237	<1	0.07	4	580	6	0.31	<2	3	30
K917708		<10	1	0.21	20	0.45	188	<1	0.06	3	440	8	0.36	<2	3	34
K917709		<10	<1	0.17	20	0.49	235	<1	0.06	4	520	9	0.34	<2	3	36
K917710		<10	<1	0.01	<10	0.89	112	<1	0.01	<1	60	<2	0.01	<2	<1	90
K917711		<10	<1	0.25	20	0.57	223	<1	0.07	4	530	6	0.47	<2	4	34
K917712		<10	<1	0.25	20	0.48	266	<1	0.07	4	570	10	0.30	<2	3	47
K917713		<10	<1	0.22	20	0.53	233	<1	0.05	4	530	6	0.38	<2	3	39
K917714		<10	<1	0.35	20	0.59	304	<1	0.08	4	600	9	0.23	<2	3	36
K917715		<10	<1	0.26	30	0.53	174	<1	0.06	3	490	4	0.42	<2	4	27
K917716		<10	<1	0.35	20	0.61	178	<1	0.06	4	560	4	0.43	<2	4	27
K917717		<10	<1	0.21	20	0.53	239	<1	0.05	4	540	7	0.37	<2	3	58
K917718		<10	<1	0.27	20	0.54	290	<1	0.06	4	580	5	0.29	<2	4	59
K917719		<10	<1	0.26	30	0.48	265	<1	0.05	4	500	13	0.34	<2	3	57
K917720		<10	<1	0.09	<10	0.55	385	376	0.08	33	510	6	0.61	<2	4	38
K917721		<10	<1	0.21	20	0.46	288	1	0.04	4	550	15	0.36	<2	3	88
K917722		<10	1	0.25	20	0.51	301	<1	0.06	4	560	11	0.36	<2	4	61
K917723		<10	<1	0.14	20	0.31	240	2	0.04	5	460	6	0.35	<2	3	60
K917724		<10	<1	0.14	20	0.38	241	1	0.02	4	580	9	0.37	<2	3	79
K917725		<10	<1	0.23	10	0.54	181	3	0.02	3	510	5	0.57	<2	2	94
K917726		<10	<1	0.21	10	0.22	110	2	0.02	4	380	3	0.73	<2	1	40
K917727		<10	<1	0.21	10	0.32	125	2	0.02	3	410	47	0.35	<2	1	63
K917728		<10	1	0.41	20	0.61	193	<1	0.08	5	580	7	0.41	<2	4	51
K917729		<10	<1	0.38	20	0.59	238	1	0.07	4	560	4	0.33	<2	4	46
K917730		<10	<1	0.01	<10	0.50	83	<1	0.01	<1	80	<2	0.01	<2	<1	90
K917731		<10	<1	0.19	20	0.57	194	<1	0.06	3	500	6	0.37	<2	3	51
K917732		<10	<1	0.24	20	0.61	197	1	0.06	4	580	5	0.48	<2	3	46
K917733		<10	<1	0.35	20	0.56	218	3	0.08	4	570	4	0.25	<2	3	34
K917734		<10	<1	0.33	20	0.47	219	4	0.08	4	510	4	0.08	<2	2	31
K917735		<10	<1	0.30	20	0.57	232	5	0.07	4	540	6	0.20	<2	4	40
K917736		<10	<1	0.29	20	0.43	208	<1	0.08	4	560	5	0.06	<2	2	27
K917737		10	<1	0.27	20	0.60	208	20	0.09	4	560	6	0.46	<2	4	51
K917738		<10	<1	0.21	20	0.48	313	1	0.05	5	560	8	1.17	<2	4	115
K917739		<10	<1	0.38	20	0.56	311	<1	0.09	4	600	4	0.14	<2	4	50
K917740		<10	<1	0.28	<10	0.56	730	232	0.06	20	730	75	2.14	<2	2	56
K917741		<10	<1	0.19	20	0.56	228	1	0.07	4	530	8	0.39	<2	4	41
K917742		<10	<1	0.19	20	0.45	222	<1	0.07	3	480	9	0.26	<2	3	39
K917743		<10	<1	0.24	10	0.49	198	<1	0.06	3	450	7	0.24	<2	3	33
K917744		<10	<1	0.21	20	0.55	203	2	0.07	4	520	7	0.46	<2	3	61

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K917705		20	0.05	<10	10	43	<10	19	
K917706		20	0.09	<10	10	45	10	21	
K917707		20	0.12	<10	10	47	<10	19	
K917708		20	0.06	<10	10	33	<10	17	
K917709		30	0.09	<10	10	37	<10	21	
K917710		<20	<0.01	<10	<10	<1	<10	<2	
K917711		20	0.09	<10	10	43	<10	19	
K917712		20	0.07	<10	10	37	<10	25	
K917713		20	0.07	<10	10	37	<10	18	
K917714		20	0.11	<10	10	47	<10	19	
K917715		20	0.10	<10	10	42	<10	13	
K917716		20	0.12	<10	10	47	10	18	
K917717		20	0.04	<10	10	38	<10	17	
K917718		20	0.06	<10	10	41	<10	18	
K917719		20	0.04	<10	10	32	<10	85	
K917720		<20	0.10	<10	<10	50	30	57	
K917721		20	0.02	<10	10	26	<10	30	
K917722		20	0.04	<10	10	35	<10	21	
K917723		20	<0.01	<10	10	15	30	18	
K917724		20	<0.01	<10	10	12	<10	20	
K917725		20	<0.01	<10	10	6	<10	14	
K917726		20	<0.01	<10	10	6	<10	10	
K917727		20	<0.01	<10	10	12	<10	46	
K917728		20	0.09	<10	10	47	<10	17	
K917729		20	0.09	<10	10	47	10	16	
K917730		<20	<0.01	<10	<10	<1	<10	<2	
K917731		20	0.06	<10	<10	40	<10	17	
K917732		20	0.06	<10	10	42	<10	17	
K917733		20	0.13	<10	10	45	20	16	
K917734		20	0.12	<10	10	39	<10	14	
K917735		20	0.10	<10	10	45	<10	16	
K917736		20	0.12	<10	10	41	<10	14	
K917737		20	0.04	<10	10	41	20	22	
K917738		20	0.02	<10	10	27	<10	16	
K917739		20	0.10	<10	10	47	<10	18	
K917740		<20	0.04	<10	<10	32	<10	441	
K917741		20	0.07	<10	10	42	<10	23	
K917742		30	0.06	<10	10	36	<10	23	
K917743		20	0.06	<10	10	37	<10	16	
K917744		20	0.03	<10	10	35	<10	20	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917745		6.79	0.006	<0.2	1.20	17	<10	80	0.5	<2	1.03	<0.5	6	8	100	2.25
K917746		6.72	0.007	<0.2	0.99	10	<10	90	0.5	<2	0.98	<0.5	6	9	74	2.29
K917747		6.61	0.007	<0.2	0.95	6	<10	100	<0.5	<2	1.03	<0.5	7	9	110	2.44
K917748		6.78	<0.005	<0.2	0.86	5	<10	130	<0.5	<2	0.98	<0.5	5	8	27	2.16
K917749		6.77	0.006	<0.2	0.62	22	<10	60	0.5	<2	0.87	<0.5	3	7	33	1.57
K917750		0.56	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	2	<1	0.07
K917751		6.97	0.145	<0.2	0.83	8	<10	60	<0.5	<2	0.85	<0.5	5	8	84	2.06
K917752		6.40	<0.005	<0.2	0.93	9	<10	110	<0.5	<2	0.90	<0.5	5	9	82	2.25
K917753		6.59	0.005	<0.2	0.87	27	<10	40	0.8	<2	1.19	<0.5	5	5	88	2.19
K917754		6.37	0.014	0.4	0.54	29	<10	40	0.7	<2	1.17	<0.5	5	4	139	1.54
K917755		6.64	<0.005	<0.2	0.74	6	<10	60	0.6	<2	1.03	<0.5	4	7	23	2.02
K917756		6.56	<0.005	<0.2	0.77	12	<10	100	<0.5	<2	1.29	<0.5	5	10	30	2.12
K917757		6.35	<0.005	<0.2	0.85	6	<10	80	0.5	<2	0.93	<0.5	5	8	38	2.12
K917758		6.52	0.009	<0.2	0.80	9	<10	80	0.6	<2	0.79	<0.5	6	9	61	2.02
K917759		6.76	<0.005	<0.2	0.84	3	<10	190	<0.5	<2	0.79	<0.5	5	8	24	2.08
K917760		0.08	0.315	2.7	1.72	28	10	60	<0.5	<2	0.82	2.0	10	30	2420	4.43
K917761		6.73	<0.005	<0.2	0.90	4	<10	180	<0.5	<2	0.72	<0.5	6	9	50	2.07
K917762		6.66	0.024	0.3	0.87	7	<10	160	<0.5	4	0.81	<0.5	7	9	190	2.17
K917763		7.19	0.020	<0.2	0.85	8	<10	140	<0.5	<2	0.73	<0.5	6	10	49	1.99
K917764		7.02	0.006	<0.2	0.88	3	<10	150	<0.5	<2	0.82	<0.5	6	11	81	2.22
K917765		6.88	<0.005	<0.2	0.81	3	<10	160	<0.5	<2	0.71	<0.5	5	9	46	2.01
K917766		6.85	0.007	<0.2	0.89	6	<10	100	<0.5	<2	0.95	<0.5	5	7	91	2.10
K917767		6.38	<0.005	<0.2	0.85	2	<10	200	<0.5	<2	0.60	<0.5	5	10	43	2.01
K917768		7.27	<0.005	<0.2	0.85	3	<10	170	<0.5	<2	0.62	<0.5	5	10	42	1.92
K917769		6.93	0.026	<0.2	0.64	4	<10	110	<0.5	2	0.70	<0.5	4	9	44	1.58
K917770		0.37	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	1	1	6	0.19
K917771		7.16	0.014	<0.2	0.93	11	<10	150	<0.5	<2	0.91	<0.5	7	8	70	2.11
K917772		6.74	0.029	0.3	0.87	8	<10	110	<0.5	7	1.00	<0.5	8	9	215	2.33
K917773		6.97	0.035	<0.2	0.87	8	<10	170	<0.5	<2	0.78	<0.5	5	9	36	2.10
K917774		3.33	0.007	0.2	0.81	4	<10	110	<0.5	<2	0.85	<0.5	8	9	146	2.49
K917775		4.14	0.005	<0.2	0.62	6	<10	130	0.5	3	1.23	<0.5	8	8	114	2.40
K917776		6.15	3.14	0.9	0.29	228	<10	30	<0.5	45	0.88	<0.5	5	7	107	2.00
K917777		6.62	0.009	<0.2	0.41	6	<10	60	<0.5	<2	1.00	<0.5	3	6	48	1.25
K917778		6.86	0.010	<0.2	0.66	4	<10	90	<0.5	<2	0.71	<0.5	4	10	48	1.57
K917779		5.10	0.013	0.2	0.39	77	<10	60	0.5	<2	1.13	<0.5	4	7	88	1.66
K917780		0.08	0.350	2.7	1.74	29	10	60	<0.5	<2	0.83	2.1	11	30	2490	4.53
K917781		4.86	0.005	<0.2	0.31	7	<10	40	0.5	<2	1.15	<0.5	4	6	81	1.50
K917782		6.83	0.041	0.3	0.35	86	<10	80	0.6	<2	1.82	<0.5	7	5	218	2.06
K917783		6.44	0.012	<0.2	0.39	19	<10	50	0.5	<2	1.25	<0.5	6	6	115	1.97
K917784		4.21	0.015	<0.2	0.35	48	<10	120	0.7	2	1.24	<0.5	5	5	81	1.44

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917745		10	<1	0.23	20	0.63	232	1	0.10	4	580	7	0.40	<2	4	61
K917746		<10	<1	0.33	30	0.54	261	1	0.07	5	630	7	0.28	<2	4	76
K917747		<10	<1	0.27	30	0.64	287	<1	0.06	5	610	8	0.45	<2	4	56
K917748		<10	<1	0.32	20	0.55	341	<1	0.08	4	570	6	0.10	<2	4	54
K917749		<10	<1	0.14	20	0.33	222	<1	0.04	3	310	7	0.23	<2	2	60
K917750		<10	<1	<0.01	<10	0.37	95	<1	0.01	<1	60	2	<0.01	<2	<1	85
K917751		<10	<1	0.22	20	0.47	181	<1	0.05	4	490	6	0.43	<2	3	46
K917752		<10	<1	0.27	20	0.54	212	<1	0.07	4	600	6	0.38	<2	4	58
K917753		<10	<1	0.18	20	0.33	184	1	0.04	4	620	10	0.49	<2	3	121
K917754		<10	<1	0.18	20	0.26	237	<1	0.03	3	370	11	0.38	<2	2	100
K917755		<10	<1	0.17	20	0.44	349	<1	0.05	3	550	5	0.11	<2	4	71
K917756		<10	<1	0.23	20	0.50	420	<1	0.06	3	560	8	0.12	<2	4	60
K917757		<10	<1	0.18	20	0.45	267	<1	0.06	4	560	6	0.19	<2	4	79
K917758		<10	<1	0.19	20	0.39	283	1	0.06	4	490	8	0.32	<2	3	72
K917759		<10	1	0.37	10	0.53	351	<1	0.09	4	560	4	0.12	<2	4	46
K917760		<10	<1	0.29	<10	0.56	731	238	0.06	22	730	72	2.14	<2	2	56
K917761		<10	1	0.35	20	0.58	326	16	0.08	4	570	6	0.21	<2	3	43
K917762		<10	<1	0.32	20	0.52	264	3	0.07	4	560	8	0.46	<2	3	32
K917763		<10	<1	0.32	20	0.49	247	3	0.09	4	540	7	0.32	<2	3	39
K917764		<10	<1	0.33	20	0.55	266	1	0.08	4	600	5	0.29	<2	4	42
K917765		<10	<1	0.35	20	0.51	281	1	0.08	4	510	4	0.24	<2	3	38
K917766		<10	<1	0.21	20	0.48	238	43	0.07	4	540	5	0.41	<2	4	54
K917767		<10	<1	0.37	20	0.52	291	5	0.09	4	550	5	0.20	<2	3	30
K917768		<10	<1	0.36	20	0.50	275	13	0.09	4	520	5	0.19	<2	3	31
K917769		<10	<1	0.26	20	0.36	236	4	0.07	3	360	9	0.20	<2	2	33
K917770		<10	<1	<0.01	<10	1.75	120	<1	0.02	2	80	<2	0.05	<2	<1	81
K917771		<10	1	0.33	20	0.52	294	1	0.09	4	570	7	0.39	<2	4	51
K917772		<10	<1	0.25	20	0.56	270	<1	0.07	4	560	6	0.60	<2	4	54
K917773		<10	<1	0.35	30	0.48	355	1	0.10	4	620	5	0.16	<2	3	47
K917774		<10	<1	0.30	40	0.60	302	10	0.09	4	680	5	0.63	<2	7	51
K917775		<10	<1	0.28	50	0.50	311	2	0.05	5	650	5	0.47	<2	5	96
K917776		<10	<1	0.16	10	0.24	214	1	0.04	4	320	56	0.65	3	2	60
K917777		<10	<1	0.18	10	0.27	176	177	0.05	2	270	8	0.23	<2	2	58
K917778		<10	<1	0.23	10	0.38	215	<1	0.07	3	350	6	0.22	<2	2	42
K917779		<10	<1	0.17	20	0.32	199	<1	0.05	3	360	10	0.38	<2	2	83
K917780		<10	<1	0.29	<10	0.57	750	241	0.06	22	750	76	2.21	<2	2	56
K917781		<10	<1	0.14	10	0.22	169	1	0.04	2	290	10	0.31	<2	2	100
K917782		<10	<1	0.21	10	0.52	188	12	0.03	3	390	9	0.96	2	2	86
K917783		<10	<1	0.19	20	0.34	193	1	0.05	3	420	9	0.59	<2	3	79
K917784		<10	<1	0.20	20	0.30	147	1	0.03	3	470	11	0.54	<2	3	98

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K917745		20	0.04	<10	10	44	10	24	
K917746		20	0.07	<10	10	43	<10	21	
K917747		20	0.06	<10	10	47	<10	19	
K917748		20	0.09	<10	10	46	<10	19	
K917749		30	0.01	<10	10	17	<10	14	
K917750		<20	<0.01	<10	<10	<1	<10	<2	
K917751		20	0.03	<10	10	36	<10	17	
K917752		20	0.05	<10	10	45	<10	19	
K917753		20	<0.01	<10	10	20	<10	21	
K917754		20	<0.01	<10	10	9	<10	15	
K917755		20	0.02	<10	10	31	<10	21	
K917756		20	0.05	<10	10	39	<10	27	
K917757		20	0.02	<10	10	33	<10	20	
K917758		20	0.02	<10	10	28	<10	20	
K917759		20	0.10	<10	10	45	<10	21	
K917760		<20	0.04	<10	<10	32	<10	438	
K917761		20	0.11	<10	10	45	30	19	
K917762		20	0.10	<10	10	41	<10	23	
K917763		20	0.11	<10	10	40	<10	17	
K917764		20	0.09	<10	10	44	<10	19	
K917765		20	0.09	<10	10	40	<10	19	
K917766		20	0.04	<10	10	36	<10	18	
K917767		20	0.13	<10	10	43	<10	18	
K917768		20	0.11	<10	10	42	<10	18	
K917769		20	0.07	<10	10	29	10	16	
K917770		<20	0.02	<10	<10	1	<10	<2	
K917771		20	0.10	<10	10	41	<10	22	
K917772		20	0.04	<10	<10	36	<10	23	
K917773		20	0.11	<10	10	48	<10	23	
K917774		30	0.06	<10	10	48	110	19	
K917775		30	0.03	<10	<10	32	<10	21	
K917776		20	<0.01	<10	10	13	<10	20	
K917777		20	0.01	<10	10	11	<10	14	
K917778		20	0.05	<10	10	23	<10	15	
K917779		20	<0.01	<10	10	10	<10	21	
K917780		<20	0.04	<10	<10	32	<10	451	
K917781		20	<0.01	<10	10	8	<10	14	
K917782		20	<0.01	<10	10	7	<10	18	
K917783		20	<0.01	<10	10	11	<10	17	
K917784		20	<0.01	<10	10	8	<10	16	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917785		3.33	0.012	<0.2	0.37	58	<10	130	1.0	<2	2.02	<0.5	6	4	108	1.55
K917786		5.41	0.085	1.1	0.29	156	<10	250	0.8	36	6.19	2.2	4	4	229	2.52
K917787		5.59	0.034	0.5	0.35	152	<10	60	0.7	8	5.70	9.6	3	4	130	2.28
K917788		4.59	0.009	<0.2	0.47	27	<10	430	0.9	<2	2.03	<0.5	5	5	68	1.65
K917789		6.62	0.006	<0.2	0.59	14	<10	60	<0.5	<2	1.43	<0.5	7	7	119	1.80
K917790		0.42	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.12
K917791		6.84	0.008	<0.2	0.62	9	<10	100	<0.5	<2	1.04	<0.5	6	9	104	1.99
K917792		6.27	0.012	0.5	0.66	2	<10	110	<0.5	7	0.92	<0.5	6	9	303	1.89
K917793		7.26	0.011	<0.2	0.62	9	<10	100	<0.5	<2	0.89	<0.5	6	10	116	1.99
K917794		6.54	0.006	<0.2	0.60	2	<10	130	<0.5	<2	0.73	<0.5	5	12	90	2.12
K917795		6.42	0.005	<0.2	0.60	6	<10	130	<0.5	<2	0.80	<0.5	5	11	53	2.01
K917796		3.32	0.006	<0.2	0.71	6	<10	90	<0.5	2	0.82	<0.5	5	10	66	1.97
K917797		8.91	0.005	0.2	0.94	7	<10	170	<0.5	<2	1.01	<0.5	7	10	54	2.52
K917798		11.38	<0.005	<0.2	0.90	2	<10	280	<0.5	<2	1.05	<0.5	7	13	7	2.43
K917799		10.17	0.012	<0.2	1.07	5	<10	160	<0.5	<2	1.11	<0.5	7	11	31	2.55
K917800		0.07	0.674	3.0	1.21	14	10	120	<0.5	<2	0.78	<0.5	11	49	8050	2.55
K917801		9.65	0.016	<0.2	0.77	8	<10	110	0.5	<2	1.33	<0.5	7	8	28	2.56
K917802		9.59	0.059	0.5	0.88	188	<10	90	<0.5	<2	1.14	1.6	10	9	135	2.69
K917803		11.02	0.016	<0.2	1.01	32	<10	120	<0.5	<2	0.93	<0.5	7	10	59	2.63
K917804		5.95	0.020	0.2	1.04	10	<10	60	0.7	<2	1.34	<0.5	10	8	105	2.89
K917805		3.94	0.514	48.4	0.37	1475	<10	40	0.7	55	4.74	20.1	13	3	>10000	5.45
K917806		10.01	0.013	1.5	0.46	64	<10	50	0.7	4	1.69	1.9	7	5	212	2.44
K917807		8.56	0.009	<0.2	0.74	15	<10	90	0.6	<2	1.52	<0.5	6	7	32	2.49
K917808		9.53	0.082	<0.2	0.72	382	<10	90	0.6	<2	2.14	0.5	7	7	34	2.76
K917809		9.53	0.005	<0.2	1.00	8	<10	170	<0.5	<2	1.20	<0.5	7	9	32	2.71
K917810		0.49	<0.005	<0.2	0.04	3	<10	20	<0.5	<2	>25.0	<0.5	1	1	6	0.16
K917811		10.63	0.011	0.2	0.57	15	<10	60	0.6	2	1.82	<0.5	9	6	98	2.84
K917812		10.48	0.008	<0.2	0.75	11	<10	80	0.5	<2	1.13	<0.5	7	8	78	2.69
K917813		10.17	0.036	0.2	0.73	69	<10	60	0.5	<2	1.23	<0.5	7	8	56	2.61
K917814		10.24	0.018	<0.2	0.75	13	<10	60	0.5	<2	1.93	<0.5	11	8	57	2.93
K917815		10.82	0.014	<0.2	0.89	7	<10	160	<0.5	<2	0.92	<0.5	9	10	27	2.59
K917816		9.90	0.008	0.2	0.66	20	<10	100	<0.5	<2	1.26	<0.5	6	9	44	2.24
K917817		10.27	0.029	<0.2	0.64	51	<10	50	0.7	<2	1.57	<0.5	7	6	50	2.43
K917818		11.03	0.012	<0.2	0.98	17	<10	140	<0.5	<2	0.89	<0.5	6	10	28	2.41
K917819		9.40	0.026	<0.2	0.79	17	<10	60	0.5	<2	1.07	<0.5	8	8	114	2.70
K917820		0.08	0.333	2.6	1.65	27	10	60	<0.5	<2	0.79	2.0	11	28	2400	4.35
K917821		9.62	0.015	0.2	0.96	10	<10	50	<0.5	<2	1.04	<0.5	6	11	95	2.43
K917822		9.65	0.029	0.2	1.03	19	<10	50	<0.5	<2	1.08	<0.5	8	14	162	2.82
K917823		10.43	0.023	<0.2	0.90	37	<10	60	<0.5	<2	1.12	0.9	9	8	140	2.83
K917824		11.15	0.012	0.3	0.76	12	<10	30	<0.5	<2	1.15	<0.5	7	8	157	2.24

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917785		<10	<1	0.22	20	0.58	210	<1	0.03	4	460	14	0.52	<2	3	119
K917786		<10	<1	0.16	10	2.64	572	1	0.01	1	240	34	0.76	10	2	145
K917787		<10	<1	0.16	10	2.33	550	1	0.02	1	300	15	0.52	3	2	123
K917788		<10	<1	0.20	20	0.56	237	<1	0.03	4	520	14	0.35	<2	4	119
K917789		<10	<1	0.16	20	0.39	227	<1	0.04	4	510	8	0.46	<2	3	85
K917790		<10	<1	0.01	<10	1.29	103	<1	0.01	<1	70	<2	0.01	<2	<1	87
K917791		<10	<1	0.23	20	0.43	224	<1	0.05	4	520	5	0.38	2	4	72
K917792		<10	<1	0.27	20	0.41	169	<1	0.05	4	450	10	0.49	<2	3	40
K917793		<10	<1	0.29	20	0.46	190	<1	0.07	4	500	7	0.46	<2	3	38
K917794		<10	<1	0.31	20	0.48	207	13	0.07	4	510	3	0.35	<2	3	36
K917795		<10	<1	0.34	20	0.44	240	55	0.08	4	520	5	0.22	<2	3	44
K917796		<10	<1	0.23	20	0.42	211	1	0.06	3	480	6	0.32	<2	3	43
K917797		<10	<1	0.29	20	0.55	339	1	0.06	5	750	15	0.13	<2	4	49
K917798		<10	<1	0.32	20	0.61	414	<1	0.07	5	730	5	0.03	<2	4	61
K917799		<10	<1	0.34	30	0.68	274	1	0.07	5	760	7	0.23	<2	4	56
K917800		<10	<1	0.10	<10	0.56	397	382	0.08	33	520	6	0.62	<2	4	39
K917801		<10	<1	0.23	20	0.57	319	1	0.05	5	730	13	0.21	<2	4	68
K917802		<10	<1	0.27	20	0.63	287	1	0.05	5	720	24	0.47	<2	4	67
K917803		<10	<1	0.28	20	0.65	237	<1	0.05	5	700	17	0.41	<2	4	56
K917804		<10	<1	0.19	20	0.55	268	<1	0.04	7	800	7	0.51	<2	6	80
K917805		<10	<1	0.18	10	1.91	564	1	0.01	6	540	448	3.28	11	3	119
K917806		<10	<1	0.17	20	0.59	411	1	0.02	5	700	107	0.25	<2	5	60
K917807		<10	<1	0.22	20	0.45	300	1	0.05	5	720	6	0.16	<2	5	90
K917808		<10	<1	0.25	20	0.78	344	1	0.03	5	730	17	0.40	<2	5	73
K917809		<10	<1	0.30	20	0.62	284	1	0.06	5	790	4	0.19	<2	5	61
K917810		<10	<1	0.01	<10	0.46	86	<1	0.01	<1	80	2	0.05	<2	<1	88
K917811		<10	<1	0.19	20	0.64	304	1	0.03	7	780	7	0.62	<2	5	90
K917812		<10	<1	0.24	20	0.59	266	2	0.05	6	720	4	0.34	<2	5	59
K917813		<10	<1	0.19	20	0.61	251	<1	0.05	5	710	19	0.44	<2	5	59
K917814		<10	<1	0.25	20	0.90	336	3	0.04	5	740	11	0.42	<2	5	76
K917815		<10	<1	0.35	20	0.60	319	2	0.07	4	820	4	0.18	<2	4	44
K917816		<10	<1	0.23	20	0.62	273	1	0.05	5	730	10	0.21	<2	4	56
K917817		<10	<1	0.14	30	0.51	242	<1	0.03	5	710	9	0.35	<2	5	77
K917818		<10	<1	0.34	20	0.62	213	<1	0.07	5	700	10	0.23	<2	4	42
K917819		<10	<1	0.16	20	0.56	220	1	0.03	5	680	6	0.71	<2	4	71
K917820		<10	<1	0.28	<10	0.55	718	229	0.05	20	710	72	2.11	<2	2	54
K917821		<10	<1	0.14	20	0.64	167	3	0.04	4	640	7	0.50	<2	4	59
K917822		10	<1	0.18	20	0.74	151	21	0.04	5	730	7	0.81	<2	5	54
K917823		<10	<1	0.20	20	0.68	185	2	0.05	5	710	18	0.88	<2	4	59
K917824		<10	<1	0.15	20	0.64	129	1	0.03	4	580	5	0.68	<2	3	60

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To: TRIUMPH GOLD CORP.
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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K917785		20	<0.01	<10	10	9	<10	21	
K917786		<20	<0.01	<10	10	6	<10	117	
K917787		<20	<0.01	<10	10	10	<10	503	
K917788		20	<0.01	<10	10	12	<10	21	
K917789		20	0.01	<10	10	19	<10	17	
K917790		<20	<0.01	<10	<10	<1	<10	2	
K917791		20	0.02	<10	10	27	<10	17	
K917792		20	0.04	<10	10	27	<10	27	
K917793		20	0.06	<10	10	34	<10	18	
K917794		20	0.07	<10	10	36	<10	15	
K917795		20	0.07	<10	10	34	10	18	
K917796		20	0.03	<10	10	30	<10	17	
K917797		20	0.07	<10	<10	49	<10	37	
K917798		20	0.08	<10	<10	54	<10	25	
K917799		20	0.08	<10	10	55	<10	21	
K917800		<20	0.11	<10	<10	52	30	57	
K917801		20	0.04	<10	10	39	<10	24	
K917802		20	0.04	<10	10	43	<10	122	
K917803		20	0.06	<10	10	49	<10	30	
K917804		20	0.01	<10	10	39	<10	26	
K917805		<20	<0.01	<10	<10	12	<10	1160	1.110
K917806		20	<0.01	<10	10	22	<10	144	
K917807		20	0.02	<10	<10	31	<10	22	
K917808		20	0.02	<10	<10	32	<10	46	
K917809		20	0.06	<10	<10	51	<10	21	
K917810		<20	<0.01	<10	<10	<1	<10	<2	
K917811		20	0.01	<10	10	30	<10	19	
K917812		20	0.04	<10	10	44	<10	22	
K917813		20	0.03	<10	10	43	<10	37	
K917814		20	0.03	<10	10	39	<10	22	
K917815		20	0.10	<10	10	56	<10	21	
K917816		20	0.05	<10	<10	42	<10	28	
K917817		20	0.01	<10	<10	28	<10	21	
K917818		20	0.10	<10	<10	51	<10	18	
K917819		20	0.01	<10	10	34	<10	17	
K917820		<20	0.04	<10	<10	31	<10	438	
K917821		20	0.01	<10	10	41	<10	19	
K917822		<20	0.02	<10	10	47	20	18	
K917823		20	0.02	<10	<10	41	<10	72	
K917824		20	<0.01	<10	10	28	<10	16	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
K917825		9.36	0.039	<0.2	0.83	20	<10	80	0.6	<2	1.56	<0.5	6	9	58	2.54
K917826		9.21	0.021	<0.2	0.64	32	<10	40	0.7	<2	1.07	<0.5	8	3	61	1.76
K917827		9.28	0.037	0.2	1.12	61	<10	60	<0.5	<2	1.23	<0.5	10	9	137	2.84
K917828		7.23	0.047	0.3	1.01	148	<10	60	0.5	<2	1.00	1.0	10	8	144	2.96
K917829		9.22	0.057	0.2	0.44	22	<10	30	0.5	<2	1.92	<0.5	10	5	109	2.81
K917830		0.52	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.06
K917831		9.91	0.091	0.2	0.60	14	<10	70	0.5	22	1.34	<0.5	13	6	188	3.20
K917832		9.54	0.040	0.3	0.64	55	<10	60	0.5	<2	1.93	<0.5	11	6	164	2.86
K917833		10.37	0.014	0.2	0.44	40	<10	50	0.9	<2	2.73	<0.5	14	3	135	2.44
K917834		9.17	0.032	0.6	0.41	61	<10	40	0.5	3	1.27	<0.5	17	7	293	3.21
K917835		10.00	0.047	0.5	0.59	64	<10	40	0.8	3	1.75	<0.5	17	4	214	2.79
K917836		9.90	0.012	<0.2	0.39	34	<10	210	0.8	<2	3.58	<0.5	11	3	136	2.41
K917837		9.84	0.013	<0.2	0.61	37	<10	40	0.7	<2	2.28	<0.5	8	4	33	2.45
K917838		10.72	0.014	<0.2	0.92	26	<10	70	0.5	<2	1.48	<0.5	11	9	100	2.65
K917839		9.32	0.006	<0.2	1.06	8	<10	110	<0.5	3	0.71	<0.5	9	11	108	2.63
K917840		0.08	0.332	2.5	1.59	29	10	60	<0.5	<2	0.76	2.0	10	28	2330	4.23
K917841		10.28	0.016	0.2	0.95	55	<10	50	<0.5	<2	0.76	<0.5	8	12	146	2.32
K917842		10.73	0.151	0.4	1.34	54	<10	50	0.5	<2	2.47	<0.5	8	9	108	2.47
K917843		10.84	0.045	<0.2	1.62	30	<10	80	<0.5	2	1.26	<0.5	8	10	73	2.56
K917844		10.08	<0.005	<0.2	1.10	13	<10	130	<0.5	<2	0.92	<0.5	8	9	50	2.52
K917845		10.66	<0.005	<0.2	1.01	17	<10	70	<0.5	<2	1.16	<0.5	8	11	14	2.39
K917846		10.51	0.022	<0.2	1.05	12	<10	60	0.5	<2	1.79	<0.5	6	8	21	2.34
K917847		10.20	<0.005	<0.2	1.03	6	<10	130	<0.5	<2	0.98	<0.5	6	10	24	2.33
K917848		10.75	0.008	<0.2	0.98	15	<10	80	<0.5	<2	1.19	<0.5	5	10	30	2.27
K917849		10.80	0.108	<0.2	0.42	22	<10	40	0.5	<2	1.11	<0.5	6	7	95	1.88
K917850		0.52	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.09

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
K917825		<10	<1	0.15	30	0.63	213	1	0.03	5	720	13	0.48	<2	4	94
K917826		<10	<1	0.15	30	0.34	143	1	0.02	5	760	13	0.31	<2	3	82
K917827		<10	1	0.18	20	0.77	190	3	0.06	5	680	14	0.84	<2	4	75
K917828		<10	<1	0.18	20	0.75	158	2	0.05	5	700	41	1.01	<2	4	68
K917829		<10	<1	0.12	20	0.72	237	17	0.02	5	760	13	0.65	<2	5	117
K917830		<10	<1	0.01	<10	0.64	93	<1	0.01	<1	60	2	<0.01	<2	<1	87
K917831		<10	<1	0.17	20	0.63	227	<1	0.04	5	670	9	1.05	<2	4	105
K917832		<10	<1	0.18	20	0.75	217	2	0.03	4	650	9	0.79	<2	4	128
K917833		<10	<1	0.21	20	0.85	222	1	0.01	3	680	4	0.65	<2	3	204
K917834		<10	<1	0.15	20	0.60	139	27	0.02	6	670	9	1.32	<2	4	96
K917835		<10	<1	0.16	20	0.70	162	4	0.02	5	750	14	0.93	<2	5	110
K917836		<10	<1	0.13	20	1.10	223	<1	0.01	4	630	8	0.60	<2	4	345
K917837		<10	<1	0.16	30	0.57	322	<1	0.03	5	720	10	0.35	<2	4	174
K917838		<10	<1	0.18	20	0.86	258	<1	0.04	5	700	8	0.59	<2	4	85
K917839		<10	<1	0.24	20	0.74	192	<1	0.06	4	700	5	0.58	<2	4	37
K917840		<10	<1	0.27	<10	0.53	700	218	0.06	20	700	73	2.06	<2	2	52
K917841		<10	<1	0.13	20	0.64	138	1	0.05	4	660	6	0.66	<2	4	32
K917842		10	<1	0.22	20	0.81	215	<1	0.07	4	610	29	0.74	<2	3	105
K917843		10	1	0.30	20	0.96	211	<1	0.12	5	680	5	0.38	<2	5	73
K917844		<10	<1	0.36	20	0.70	289	<1	0.08	5	720	7	0.30	<2	4	48
K917845		<10	<1	0.19	20	0.62	439	<1	0.08	5	700	7	0.10	<2	5	55
K917846		<10	<1	0.14	20	0.52	434	<1	0.04	4	700	7	0.17	<2	4	98
K917847		<10	<1	0.38	20	0.62	246	2	0.08	4	680	4	0.15	<2	4	56
K917848		<10	<1	0.29	20	0.60	276	1	0.07	7	640	9	0.20	<2	4	65
K917849		<10	<1	0.13	10	0.43	145	<1	0.04	3	380	12	0.49	<2	2	71
K917850		<10	<1	0.01	<10	0.87	92	<1	0.01	<1	80	<2	0.02	<2	<1	83

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K917825		20	0.01	<10	10	32	<10	20	
K917826		20	<0.01	<10	<10	14	<10	27	
K917827		20	0.02	<10	<10	47	<10	24	
K917828		20	0.01	<10	<10	41	10	82	
K917829		20	<0.01	<10	10	29	<10	20	
K917830		<20	<0.01	<10	<10	<1	<10	<2	
K917831		20	0.01	<10	10	32	<10	19	
K917832		20	0.01	<10	10	26	<10	20	
K917833		20	<0.01	<10	10	9	<10	20	
K917834		20	<0.01	<10	10	17	<10	33	
K917835		20	<0.01	<10	10	21	<10	19	
K917836		20	<0.01	<10	<10	16	<10	15	
K917837		20	<0.01	<10	<10	24	<10	22	
K917838		20	0.07	<10	10	44	<10	24	
K917839		20	0.14	<10	10	59	<10	16	
K917840		<20	0.04	<10	<10	30	<10	424	
K917841		20	0.10	<10	10	48	<10	14	
K917842		20	0.02	<10	10	41	<10	27	
K917843		20	0.10	<10	10	56	<10	21	
K917844		20	0.11	<10	10	59	<10	20	
K917845		20	0.09	<10	10	56	<10	27	
K917846		20	0.01	<10	<10	38	<10	24	
K917847		20	0.10	<10	10	54	<10	16	
K917848		20	0.07	<10	10	49	<10	24	
K917849		20	<0.01	<10	10	17	<10	15	
K917850		<20	<0.01	<10	<10	<1	<10	<2	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156176

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Cu- OG46	ME-ICP41	ME- OG46

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17156183

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 241 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 27- JUL- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I026501		4.33	0.059	0.8	0.34	148	<10	1000	0.6	3	8.2	0.8	3	5	97	2.81
I026502		5.12	0.103	0.8	0.39	603	<10	450	0.5	2	3.95	0.5	7	7	201	2.54
I026503		4.33	0.065	1.1	0.33	384	<10	220	0.5	3	2.89	1.3	16	6	267	2.34
I026504		4.69	0.028	1.1	0.31	106	<10	420	0.5	2	1.94	2.0	16	6	171	2.49
I026505		4.21	0.062	2.4	0.28	77	<10	70	<0.5	5	1.87	3.7	14	7	435	2.71
I026506		4.34	0.268	4.5	0.30	172	<10	50	<0.5	9	1.60	5.2	55	6	612	3.86
I026507		4.43	0.832	18.1	0.25	589	<10	10	<0.5	37	1.57	31.8	70	6	1535	8.35
I026508		4.43	0.161	3.3	0.25	198	<10	60	<0.5	6	1.21	4.9	32	6	722	4.17
I026509		4.52	0.979	2.0	0.24	335	<10	30	<0.5	7	0.76	1.2	130	5	728	6.82
I026510		0.36	<0.005	<0.2	0.02	3	<10	20	<0.5	<2	>25.0	<0.5	1	<1	10	0.09
I026511		4.50	0.151	1.9	0.31	212	<10	60	0.6	8	2.61	0.7	21	4	417	4.99
I026512		4.27	0.080	1.2	0.35	142	<10	110	0.8	2	3.30	0.5	12	5	274	3.96
I026513		4.39	0.021	0.6	0.33	59	<10	120	0.6	<2	1.68	<0.5	13	4	256	3.65
I026514		4.60	0.030	1.2	0.33	70	<10	70	0.5	66	1.40	0.6	35	4	511	5.68
I026515		4.46	0.076	1.3	0.33	148	<10	60	0.7	242	1.80	0.5	22	3	435	5.40
I026516		4.43	0.122	2.2	0.34	238	<10	80	0.7	143	2.24	0.6	18	4	736	5.26
I026517		4.26	0.131	1.2	0.76	75	<10	160	0.7	10	1.35	<0.5	11	6	494	3.57
I026518		4.71	0.071	0.8	0.97	47	<10	130	0.8	6	1.25	<0.5	16	7	400	3.55
I026519		4.22	0.049	0.8	0.72	100	<10	80	0.9	2	2.23	<0.5	10	5	409	3.99
I026520		0.06	0.325	2.8	1.66	30	10	60	<0.5	<2	0.81	2.1	10	29	2540	4.60
I026521		4.48	0.057	0.8	0.40	42	<10	80	0.7	8	1.89	<0.5	9	4	307	2.43
I026522		4.15	0.094	3.1	0.35	183	<10	160	0.6	49	2.54	0.8	12	4	1145	3.84
I026523		4.99	0.094	1.3	0.36	144	<10	90	0.7	11	2.53	0.5	15	4	600	4.43
I026524		4.22	0.047	0.5	0.36	107	<10	120	0.6	7	2.39	<0.5	17	4	286	3.71
I026525		4.80	0.074	0.5	0.35	522	<10	80	0.6	<2	3.27	0.6	9	4	369	3.62
I026526		4.41	0.088	1.7	0.40	74	<10	150	0.6	2	1.71	0.6	11	5	727	3.67
I026527		4.37	0.129	0.8	0.40	464	<10	220	0.7	<2	2.27	0.5	10	4	492	3.25
I026528		4.68	0.183	0.6	0.34	248	<10	210	0.6	6	1.80	<0.5	8	4	313	2.61
I026529		4.49	0.013	<0.2	0.24	36	<10	50	<0.5	<2	0.95	<0.5	2	4	57	0.91
I026530		0.33	<0.005	<0.2	0.02	3	<10	30	<0.5	<2	>25.0	<0.5	<1	1	2	0.11
I026531		4.67	0.042	0.7	0.54	56	<10	120	0.7	3	1.47	<0.5	8	4	357	2.69
I026532		4.50	0.022	0.4	0.48	86	<10	130	0.8	4	2.15	<0.5	10	4	208	3.25
I026533		4.20	0.018	0.8	0.54	113	<10	100	0.7	6	1.79	0.6	11	4	359	3.73
I026534		4.23	0.024	0.4	1.02	158	<10	90	0.8	3	1.08	<0.5	10	7	233	3.80
I026535		5.84	0.015	0.3	0.87	202	<10	80	0.6	2	1.00	<0.5	12	9	230	3.11
I026536		6.60	0.020	<0.2	0.46	26	<10	50	0.6	2	0.21	<0.5	8	6	162	2.51
I026537		6.89	0.170	0.4	0.82	19	<10	50	0.5	3	0.22	<0.5	7	11	222	2.29
I026538		8.77	0.012	0.2	1.45	6	<10	100	<0.5	<2	0.51	<0.5	7	12	168	2.94
I026539		7.72	0.022	<0.2	0.96	4	<10	70	0.5	2	0.33	<0.5	6	8	100	2.41
I026540		0.06	0.340	2.5	1.52	28	10	60	<0.5	<2	0.76	2.1	10	27	2340	4.20

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026501		<10	<1	0.16	10	3.61	869	3	0.02	10	420	51	0.29	2	3	696
I026502		<10	<1	0.19	10	1.60	643	12	0.02	16	520	37	0.52	4	4	544
I026503		<10	<1	0.16	10	1.12	509	21	0.02	5	540	54	0.67	3	4	279
I026504		<10	<1	0.17	10	0.87	506	54	0.02	7	620	82	0.52	2	4	208
I026505		<10	<1	0.16	10	0.92	618	23	0.02	5	500	159	0.24	<2	4	188
I026506		<10	<1	0.16	10	0.73	449	80	0.02	8	470	350	2.13	2	3	172
I026507		<10	<1	0.14	<10	0.63	354	343	0.02	12	490	902	8.18	14	3	144
I026508		<10	<1	0.15	<10	0.68	374	64	0.02	7	600	149	1.82	3	3	189
I026509		<10	<1	0.14	<10	0.45	299	298	0.02	7	600	67	5.89	2	4	270
I026510		<10	<1	<0.01	<10	0.59	89	2	0.01	<1	60	3	0.03	<2	<1	116
I026511		<10	<1	0.20	10	1.10	409	34	0.02	8	810	30	2.25	7	7	129
I026512		<10	<1	0.21	20	1.18	251	59	0.02	8	820	17	1.30	4	5	149
I026513		<10	<1	0.17	20	0.74	170	23	0.02	7	830	8	1.21	<2	4	123
I026514		<10	<1	0.16	10	0.70	157	47	0.02	8	850	14	2.89	5	4	93
I026515		<10	<1	0.18	20	0.73	178	26	0.03	6	860	22	2.56	7	4	146
I026516		<10	<1	0.17	10	0.84	163	53	0.03	7	790	15	2.57	3	4	180
I026517		<10	<1	0.15	30	0.81	166	32	0.03	8	910	8	1.12	<2	6	102
I026518		<10	<1	0.13	30	0.75	149	123	0.02	8	960	8	1.14	<2	6	85
I026519		<10	1	0.17	20	0.99	202	10	0.02	7	800	8	0.59	<2	5	211
I026520		<10	<1	0.28	<10	0.56	746	240	0.06	21	720	74	2.20	<2	2	55
I026521		<10	<1	0.16	10	0.73	158	69	0.02	5	630	6	0.42	3	4	148
I026522		<10	<1	0.18	20	0.95	204	28	0.02	6	770	35	1.15	<2	5	218
I026523		<10	<1	0.18	20	0.98	190	100	0.03	7	810	9	1.66	5	6	206
I026524		<10	<1	0.18	20	0.91	181	90	0.02	6	790	8	1.51	2	5	196
I026525		<10	<1	0.19	20	1.14	252	96	0.02	7	780	8	0.74	2	6	235
I026526		<10	<1	0.13	20	0.89	198	54	0.02	7	960	9	0.98	2	7	114
I026527		<10	<1	0.18	20	0.94	166	58	0.02	7	840	6	1.02	2	5	186
I026528		<10	<1	0.15	10	0.70	144	38	0.02	6	630	7	0.84	2	4	148
I026529		<10	<1	0.09	10	0.34	66	9	0.01	3	90	12	0.23	<2	1	67
I026530		<10	<1	0.01	<10	0.37	95	<1	0.01	1	70	<2	0.01	2	<1	92
I026531		<10	<1	0.13	20	0.56	139	40	0.02	6	770	10	0.79	2	5	122
I026532		<10	<1	0.16	20	0.82	166	112	0.02	6	780	6	0.82	<2	7	219
I026533		<10	<1	0.14	30	0.76	178	91	0.02	7	900	10	1.34	3	6	196
I026534		10	1	0.21	30	0.81	157	40	0.04	6	940	4	0.71	2	7	93
I026535		10	<1	0.26	20	0.60	113	24	0.05	7	880	6	0.86	2	6	74
I026536		<10	<1	0.10	30	0.07	188	3	0.04	6	670	3	0.05	2	4	17
I026537		<10	<1	0.12	20	0.26	55	2	0.04	4	670	3	0.25	<2	3	36
I026538		10	<1	0.35	20	0.72	114	1	0.10	19	710	3	0.54	<2	4	30
I026539		<10	<1	0.21	20	0.41	157	3	0.04	5	670	3	0.07	<2	4	21
I026540		<10	1	0.25	<10	0.51	693	216	0.05	19	670	70	2.08	<2	2	50

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I026501		<20	<0.01	<10	<10	15	<10	55	
I026502		<20	<0.01	<10	<10	18	<10	45	
I026503		<20	<0.01	<10	10	16	<10	92	
I026504		<20	<0.01	<10	<10	15	<10	148	
I026505		<20	<0.01	<10	<10	21	<10	257	
I026506		<20	<0.01	<10	<10	17	<10	332	
I026507		<20	<0.01	10	<10	16	<10	2000	
I026508		<20	<0.01	<10	10	17	<10	310	
I026509		<20	<0.01	<10	<10	16	<10	81	
I026510		<20	<0.01	<10	<10	<1	<10	4	
I026511		<20	<0.01	<10	10	28	<10	50	
I026512		<20	<0.01	<10	<10	26	<10	32	
I026513		<20	<0.01	<10	<10	19	<10	28	
I026514		<20	<0.01	<10	<10	17	<10	31	
I026515		<20	<0.01	<10	<10	16	<10	31	
I026516		20	<0.01	<10	10	14	10	36	
I026517		20	0.01	<10	<10	32	<10	37	
I026518		<20	0.01	<10	<10	37	<10	28	
I026519		20	<0.01	<10	10	16	<10	32	
I026520		<20	0.04	<10	<10	31	<10	453	
I026521		<20	<0.01	<10	<10	20	<10	26	
I026522		<20	<0.01	<10	<10	16	<10	50	
I026523		<20	<0.01	<10	10	16	<10	33	
I026524		<20	<0.01	<10	10	11	<10	30	
I026525		<20	<0.01	<10	<10	12	<10	41	
I026526		<20	<0.01	<10	<10	32	<10	47	
I026527		<20	<0.01	<10	10	13	<10	31	
I026528		<20	<0.01	<10	10	11	<10	23	
I026529		20	<0.01	<10	20	2	<10	11	
I026530		<20	<0.01	<10	<10	<1	<10	2	
I026531		20	<0.01	<10	10	16	<10	33	
I026532		<20	<0.01	<10	10	16	<10	24	
I026533		20	<0.01	<10	10	20	<10	38	
I026534		20	0.03	<10	<10	43	<10	24	
I026535		20	0.03	<10	10	51	20	20	
I026536		20	<0.01	<10	<10	29	<10	13	
I026537		20	0.01	<10	<10	40	<10	9	
I026538		20	0.06	<10	<10	56	<10	12	
I026539		20	0.03	<10	<10	44	<10	14	
I026540		<20	0.04	<10	<10	28	<10	406	

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I026541		7.89	0.015	<0.2	1.07	4	<10	60	0.5	2	0.30	<0.5	7	8	117	2.58
I026542		7.74	0.732	0.7	0.96	12	<10	60	0.5	2	0.31	<0.5	7	8	347	2.86
I026543		8.15	0.006	<0.2	0.85	3	<10	80	<0.5	2	0.49	<0.5	5	10	96	2.24
I026544		7.66	0.018	0.3	1.03	9	<10	60	<0.5	3	0.35	<0.5	8	9	209	2.81
I026545		7.84	0.015	0.3	0.98	6	<10	40	<0.5	<2	0.44	<0.5	7	11	183	2.73
I026546		8.79	0.009	0.2	1.05	4	<10	100	<0.5	2	0.58	<0.5	6	10	109	2.59
I026547		7.94	0.035	1.0	1.14	15	<10	70	<0.5	3	0.18	<0.5	7	10	339	3.64
I026548		7.11	0.109	0.7	1.13	10	<10	40	<0.5	3	0.21	<0.5	7	11	267	2.90
I026549		8.37	0.016	0.2	1.10	5	<10	100	<0.5	2	0.79	<0.5	7	11	114	2.61
I026550		0.38	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	7	0.15
I026551		7.85	0.102	1.0	1.12	16	<10	40	0.5	4	0.40	<0.5	8	9	274	2.86
I026552		6.35	0.023	0.4	0.75	20	<10	50	<0.5	4	0.30	<0.5	6	8	163	2.07
I026553		8.28	0.149	0.2	0.80	6	<10	50	<0.5	13	0.75	<0.5	8	10	201	2.52
I026554		9.66	0.012	0.3	0.80	6	<10	60	<0.5	2	0.48	<0.5	7	9	199	2.41
I026555		6.94	0.098	0.3	0.50	8	<10	40	0.8	2	0.36	<0.5	8	4	175	1.89
I026556		8.55	0.030	0.4	0.29	8	<10	30	0.6	2	1.42	<0.5	7	3	163	1.71
I026557		8.62	0.044	0.6	0.34	8	<10	50	0.6	4	0.27	<0.5	11	4	325	3.23
I026558		8.37	0.026	<0.2	0.39	19	<10	50	0.9	3	0.25	<0.5	8	4	186	2.17
I026559		7.39	0.173	<0.2	0.74	10	<10	70	0.5	3	0.54	<0.5	6	8	102	2.15
I026560		0.07	0.362	2.5	1.59	25	10	60	<0.5	2	0.79	2.0	10	28	2420	4.30
I026561		8.55	0.029	0.2	0.71	11	<10	80	0.5	<2	0.70	<0.5	8	7	102	2.20
I026562		9.56	0.031	<0.2	0.90	2	<10	110	<0.5	3	0.72	<0.5	6	9	44	2.09
I026563		9.66	0.031	0.3	1.04	3	<10	120	<0.5	2	0.59	<0.5	8	10	133	2.37
I026564		8.37	0.082	0.9	1.04	9	<10	110	<0.5	2	0.48	<0.5	11	10	314	2.64
I026565		4.13	0.119	0.4	1.08	16	<10	70	<0.5	2	0.45	<0.5	10	10	202	2.74
I026566		9.04	0.029	1.4	0.92	87	<10	40	0.6	5	0.42	0.5	12	6	469	2.46
I026567		6.76	0.101	2.8	1.00	19	<10	50	0.6	<2	0.66	0.8	17	7	918	2.98
I026568		8.10	0.129	1.6	1.24	9	<10	60	<0.5	4	0.86	0.5	14	9	630	3.59
I026569		3.92	0.035	0.4	0.87	6	<10	60	<0.5	2	0.68	<0.5	9	9	215	2.73
I026570		0.41	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.17
I026571		6.05	0.053	0.6	0.76	21	<10	60	<0.5	3	0.65	<0.5	10	9	323	2.49
I026572		4.03	0.100	0.2	0.88	4	<10	70	<0.5	2	0.77	<0.5	8	9	135	2.40
I026573		5.15	0.037	1.2	1.04	6	<10	80	<0.5	<2	0.59	<0.5	10	10	510	2.67
I026574		5.72	0.011	0.2	1.02	5	<10	100	<0.5	3	0.81	<0.5	8	10	148	2.62
I026575		4.75	1.240	1.6	1.05	7	<10	50	<0.5	43	0.60	<0.5	11	9	665	2.68
I026576		5.79	0.046	0.5	1.07	4	<10	50	<0.5	3	0.57	<0.5	9	10	350	3.16
I026577		5.95	0.034	0.4	0.88	5	<10	90	<0.5	2	0.75	<0.5	8	11	174	2.31
I026578		5.49	0.007	<0.2	0.92	2	<10	120	<0.5	<2	0.71	<0.5	6	10	81	2.31
I026579		4.54	0.203	2.0	0.95	4	<10	180	<0.5	2	0.95	<0.5	9	10	799	2.70
I026580		0.10	1.405	4.7	1.37	17	10	140	<0.5	4	0.83	0.5	11	40	>10000	3.33

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I026541		10	<1	0.11	30	0.46	186	4	0.03	5	670	3	0.04	<2	4	22
I026542		<10	<1	0.20	20	0.43	177	8	0.03	6	640	5	0.12	2	4	21
I026543		<10	1	0.23	20	0.50	121	1	0.05	6	680	2	0.23	<2	3	20
I026544		10	<1	0.10	20	0.53	112	3	0.04	5	630	2	0.31	<2	4	17
I026545		<10	1	0.10	20	0.56	132	2	0.04	5	640	3	0.40	<2	4	16
I026546		<10	1	0.29	20	0.56	154	1	0.05	5	640	3	0.16	<2	5	34
I026547		10	<1	0.16	20	0.45	70	9	0.04	4	680	4	0.21	<2	5	68
I026548		10	1	0.13	20	0.48	82	6	0.04	4	630	5	0.09	<2	4	32
I026549		10	1	0.28	20	0.66	151	1	0.05	5	690	3	0.39	<2	5	27
I026550		<10	2	0.01	<10	0.48	76	<1	0.01	<1	70	<2	0.03	<2	<1	86
I026551		10	<1	0.15	20	0.58	124	10	0.03	5	520	5	0.28	<2	3	17
I026552		<10	<1	0.12	20	0.31	92	4	0.04	4	420	3	0.14	<2	3	16
I026553		<10	<1	0.10	30	0.38	110	1	0.03	4	710	3	0.64	2	4	31
I026554		<10	<1	0.14	20	0.36	88	1	0.04	4	670	3	0.41	<2	4	21
I026555		<10	<1	0.13	20	0.13	82	1	0.02	5	690	4	0.05	<2	3	14
I026556		<10	<1	0.13	20	0.12	105	6	0.01	3	390	4	0.05	<2	1	30
I026557		<10	<1	0.15	20	0.06	111	9	0.02	5	590	5	0.26	<2	3	36
I026558		<10	1	0.13	30	0.09	95	5	0.02	5	680	3	0.05	<2	3	20
I026559		<10	<1	0.13	30	0.25	107	2	0.04	4	700	3	0.13	<2	4	30
I026560		<10	<1	0.26	<10	0.53	710	233	0.05	20	680	72	2.11	<2	2	52
I026561		<10	1	0.24	20	0.35	128	2	0.03	4	660	3	0.14	<2	4	23
I026562		<10	<1	0.34	20	0.61	155	<1	0.05	3	670	2	0.16	<2	3	25
I026563		<10	<1	0.27	20	0.61	126	3	0.05	4	650	4	0.36	<2	3	23
I026564		10	<1	0.30	20	0.62	133	26	0.04	5	700	6	0.32	<2	5	26
I026565		10	<1	0.22	20	0.61	122	3	0.05	4	660	3	0.25	<2	5	22
I026566		10	<1	0.13	30	0.49	170	20	0.02	2	880	21	0.18	<2	2	17
I026567		10	<1	0.11	30	0.58	182	71	0.03	3	910	20	0.82	<2	3	19
I026568		10	<1	0.26	20	0.79	231	13	0.05	4	750	11	0.86	<2	5	27
I026569		<10	<1	0.13	20	0.54	120	1	0.05	4	640	4	0.71	<2	3	21
I026570		<10	1	0.01	<10	1.28	110	<1	<0.01	<1	80	<2	0.02	<2	<1	86
I026571		<10	<1	0.15	20	0.54	110	6	0.02	3	800	6	0.76	<2	3	16
I026572		<10	<1	0.24	20	0.58	140	7	0.05	4	620	3	0.47	<2	3	25
I026573		10	1	0.23	30	0.59	140	13	0.04	5	640	4	0.39	<2	4	25
I026574		10	<1	0.33	20	0.62	156	1	0.05	4	670	3	0.47	<2	5	30
I026575		10	<1	0.16	30	0.62	109	37	0.03	4	690	5	0.59	<2	4	22
I026576		10	1	0.15	20	0.63	101	1	0.04	4	660	3	1.01	<2	4	19
I026577		<10	<1	0.23	20	0.65	150	4	0.05	4	690	3	0.46	<2	3	25
I026578		10	<1	0.29	20	0.68	164	5	0.07	4	720	4	0.38	<2	3	26
I026579		<10	<1	0.39	20	0.60	175	93	0.05	3	660	2	0.54	<2	5	37
I026580		<10	1	0.13	10	0.62	488	474	0.10	32	530	9	0.93	<2	5	45

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I026541		20	0.01	<10	<10	48	<10	14	
I026542		20	0.02	<10	<10	42	70	23	
I026543		<20	0.11	<10	<10	47	<10	10	
I026544		20	0.03	<10	<10	46	<10	12	
I026545		20	0.03	<10	<10	48	<10	14	
I026546		20	0.07	<10	<10	52	<10	15	
I026547		20	0.01	<10	<10	57	<10	19	
I026548		20	0.01	<10	<10	49	<10	20	
I026549		20	0.06	<10	<10	55	<10	21	
I026550		<20	<0.01	<10	<10	1	<10	<2	
I026551		20	0.01	<10	<10	39	80	22	
I026552		20	0.01	<10	<10	30	10	12	
I026553		20	0.01	<10	<10	45	<10	13	
I026554		20	0.01	<10	<10	40	<10	13	
I026555		20	<0.01	<10	<10	20	<10	14	
I026556		20	<0.01	<10	<10	7	<10	12	
I026557		20	<0.01	<10	<10	22	<10	14	
I026558		20	<0.01	<10	<10	18	<10	11	
I026559		20	0.01	<10	<10	35	<10	12	
I026560		<20	0.04	<10	<10	29	<10	409	
I026561		20	0.05	<10	<10	34	<10	13	
I026562		20	0.12	<10	<10	46	10	14	
I026563		20	0.09	<10	<10	48	10	14	
I026564		20	0.06	<10	<10	52	210	25	
I026565		20	0.05	<10	<10	52	<10	21	
I026566		<20	0.01	<10	<10	31	50	44	
I026567		<20	0.01	<10	10	36	120	59	
I026568		<20	0.08	<10	10	64	50	40	
I026569		20	0.08	<10	<10	47	<10	15	
I026570		<20	<0.01	<10	<10	<1	<10	<2	
I026571		<20	0.02	<10	<10	40	30	21	
I026572		20	0.08	<10	<10	45	60	14	
I026573		20	0.04	<10	<10	47	210	30	
I026574		20	0.07	<10	<10	51	<10	16	
I026575		20	0.02	<10	<10	50	490	27	
I026576		20	0.03	<10	<10	52	<10	14	
I026577		20	0.10	<10	<10	46	20	13	
I026578		20	0.13	<10	<10	52	40	13	
I026579		20	0.09	<10	<10	53	620	24	
I026580		<20	0.12	<10	<10	56	30	74	1.365

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026581		4.23	0.021	0.3	0.73	6	<10	100	<0.5	<2	1.11	<0.5	8	8	204	2.71
I026582		4.28	0.063	1.7	0.76	6	<10	140	<0.5	3	0.87	<0.5	7	9	690	2.50
I026583		4.19	0.053	0.5	1.03	3	<10	200	<0.5	5	0.83	<0.5	8	11	249	2.70
I026584		4.97	0.118	3.1	0.90	14	<10	80	<0.5	<2	1.00	0.6	13	9	1360	3.07
I026585		4.58	0.197	4.9	0.47	22	<10	60	0.6	5	1.10	0.8	10	6	2000	2.84
I026586		4.73	0.037	0.6	0.57	8	<10	110	0.5	2	1.16	<0.5	8	7	278	2.33
I026587		4.50	0.029	0.8	0.44	42	<10	60	0.7	<2	1.66	<0.5	6	4	298	2.24
I026588		4.18	0.098	0.7	0.80	14	<10	90	<0.5	2	1.16	<0.5	7	9	315	2.39
I026589		4.40	0.044	0.7	0.81	8	<10	90	<0.5	2	1.25	<0.5	8	12	329	2.74
I026590		0.36	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.17
I026591		4.27	0.037	1.8	0.70	13	<10	130	<0.5	<2	1.16	<0.5	8	8	608	2.66
I026592		4.57	0.380	9.3	0.53	31	<10	40	0.6	4	0.64	1.0	13	6	3950	3.15
I026593		4.41	0.198	1.5	1.23	7	<10	70	0.5	4	0.91	<0.5	13	11	781	3.82
I026594		4.45	0.201	1.3	1.00	4	<10	140	<0.5	2	0.89	<0.5	7	11	412	2.57
I026595		4.31	0.339	0.5	0.95	2	<10	130	<0.5	4	1.10	<0.5	6	10	247	2.36
I026596		4.22	0.146	3.8	0.71	12	<10	110	<0.5	11	1.08	1.0	9	8	1720	2.96
I026597		4.29	0.024	0.6	0.86	6	<10	130	<0.5	<2	1.13	<0.5	7	8	279	2.31
I026598		4.49	0.104	2.1	1.01	3	<10	110	<0.5	3	0.77	<0.5	9	11	952	3.06
I026599		4.60	0.019	0.3	0.86	5	<10	50	<0.5	<2	0.68	<0.5	8	12	204	2.75
I026600		0.11	0.723	2.8	1.12	13	10	110	<0.5	3	0.75	<0.5	10	46	7780	2.47
I026601		4.05	0.131	3.0	0.97	7	<10	40	<0.5	2	0.71	<0.5	13	12	1580	3.36
I026602		4.50	0.152	2.7	0.86	4	<10	50	<0.5	3	0.73	<0.5	6	10	1600	2.53
I026603		3.94	0.083	1.0	0.78	4	<10	40	<0.5	2	0.69	<0.5	6	10	610	2.11
I026604		4.36	0.043	0.6	0.82	10	<10	40	<0.5	10	0.74	<0.5	6	8	373	2.21
I026605		3.98	0.245	4.0	0.79	13	<10	20	0.6	7	1.84	<0.5	11	7	1900	2.68
I026606		5.01	0.037	0.9	0.71	19	<10	70	0.5	2	1.10	<0.5	11	8	526	3.51
I026607		4.63	0.035	0.2	1.28	4	<10	150	<0.5	4	0.78	<0.5	9	12	258	3.35
I026608		4.50	0.013	<0.2	1.07	4	<10	80	<0.5	3	0.69	<0.5	5	11	148	2.57
I026609		4.80	0.041	0.3	1.21	16	<10	70	0.6	7	1.15	<0.5	11	9	300	3.36
I026610		0.38	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.08
I026611		4.26	0.239	0.4	1.24	11	<10	60	0.5	10	0.78	<0.5	11	12	317	3.55
I026612		4.63	0.020	0.3	1.09	6	<10	70	<0.5	2	0.71	<0.5	8	10	242	2.73
I026613		4.97	0.090	0.3	0.63	24	<10	50	0.6	2	1.07	<0.5	5	7	186	1.59
I026614		4.60	0.298	0.7	0.48	45	<10	40	0.7	7	1.66	<0.5	4	4	469	1.49
I026615		4.40	0.010	<0.2	0.49	47	<10	40	0.6	<2	1.04	<0.5	3	4	54	1.22
I026616		3.92	0.061	0.5	0.58	37	<10	50	0.7	2	0.86	<0.5	9	4	297	2.24
I026617		4.72	0.093	3.6	0.47	143	<10	40	0.8	5	2.14	0.5	12	4	1915	2.53
I026618		4.78	1.180	16.7	0.29	24	<10	30	0.6	14	1.52	1.9	11	4	4970	2.66
I026619		4.16	0.183	6.6	0.28	49	<10	30	0.6	2	1.44	0.6	10	5	2480	2.67
I026620		0.14	0.710	3.1	1.13	14	<10	110	<0.5	<2	0.75	<0.5	10	46	7800	2.49

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026581		<10	<1	0.28	20	0.53	161	2	0.05	4	670	3	0.67	<2	5	49
I026582		<10	1	0.33	30	0.54	188	52	0.04	4	670	3	0.29	<2	4	42
I026583		<10	1	0.51	20	0.69	180	16	0.07	5	760	3	0.43	<2	5	41
I026584		10	<1	0.21	30	0.65	172	114	0.04	4	770	2	0.89	<2	5	51
I026585		<10	<1	0.16	30	0.47	151	169	0.03	3	730	6	0.78	<2	4	50
I026586		<10	<1	0.14	20	0.46	149	3	0.03	3	540	4	0.54	<2	4	53
I026587		<10	<1	0.13	20	0.37	185	6	0.02	3	570	6	0.32	2	4	78
I026588		<10	<1	0.25	30	0.50	171	2	0.04	4	680	4	0.31	<2	5	59
I026589		<10	<1	0.20	20	0.67	159	5	0.04	4	680	3	0.63	<2	5	80
I026590		<10	2	0.01	<10	2.16	229	<1	0.01	<1	70	<2	<0.01	<2	<1	81
I026591		<10	<1	0.29	30	0.61	221	462	0.05	4	690	3	0.44	<2	5	57
I026592		<10	<1	0.18	20	0.36	176	107	0.03	4	670	4	1.42	<2	4	26
I026593		10	<1	0.24	30	0.78	127	23	0.04	5	910	3	1.15	<2	6	53
I026594		10	<1	0.30	20	0.67	139	32	0.05	4	660	3	0.57	<2	4	43
I026595		<10	<1	0.28	20	0.56	179	3	0.06	3	630	3	0.34	<2	4	43
I026596		<10	<1	0.29	20	0.44	202	121	0.04	4	660	14	1.03	<2	4	51
I026597		<10	<1	0.35	20	0.53	176	10	0.05	4	660	4	0.35	<2	4	45
I026598		10	1	0.28	30	0.61	145	114	0.04	4	730	3	0.64	<2	3	29
I026599		10	<1	0.12	20	0.52	118	4	0.03	3	730	2	0.77	<2	3	25
I026600		<10	1	0.09	<10	0.53	390	367	0.07	31	500	6	0.60	<2	4	36
I026601		10	<1	0.11	30	0.55	115	58	0.03	4	790	3	1.29	<2	3	24
I026602		10	<1	0.13	20	0.59	129	40	0.03	3	660	3	0.53	<2	3	29
I026603		10	<1	0.14	20	0.53	114	16	0.04	2	510	4	0.45	<2	3	25
I026604		<10	<1	0.16	20	0.56	108	11	0.05	3	480	4	0.56	<2	3	22
I026605		<10	<1	0.10	20	0.46	126	62	0.02	3	480	5	0.94	<2	3	69
I026606		<10	1	0.19	30	0.67	134	27	0.04	4	710	2	1.56	2	4	45
I026607		10	<1	0.61	50	1.04	146	3	0.05	5	930	2	0.78	<2	6	27
I026608		10	<1	0.33	30	0.79	117	3	0.06	4	670	2	0.57	<2	5	29
I026609		10	<1	0.33	40	0.73	116	4	0.05	5	860	<2	1.03	<2	5	42
I026610		<10	1	<0.01	<10	0.44	85	<1	<0.01	<1	70	<2	<0.01	<2	<1	89
I026611		10	<1	0.26	40	0.89	123	2	0.05	7	840	4	1.09	<2	5	29
I026612		10	<1	0.22	20	0.71	107	1	0.07	4	620	3	0.82	<2	4	31
I026613		<10	<1	0.12	20	0.39	86	1	0.04	4	580	3	0.44	<2	3	32
I026614		<10	<1	0.12	20	0.58	85	2	0.02	3	490	4	0.36	<2	2	69
I026615		<10	<1	0.13	20	0.39	56	1	0.01	3	570	3	0.19	<2	2	41
I026616		<10	<1	0.13	30	0.34	64	5	0.02	5	660	5	0.88	<2	4	46
I026617		<10	<1	0.15	20	0.79	137	90	0.01	5	570	11	1.11	4	3	90
I026618		<10	<1	0.15	20	0.58	235	219	0.02	6	490	53	0.98	3	3	62
I026619		<10	<1	0.13	30	0.62	172	320	0.02	4	530	9	0.88	<2	3	62
I026620		<10	<1	0.10	<10	0.54	389	373	0.07	32	510	6	0.61	2	4	37

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I026581		20	0.05	<10	<10	44	<10	15	
I026582		20	0.06	<10	<10	45	<10	29	
I026583		20	0.13	<10	<10	59	90	15	
I026584		<20	0.03	<10	<10	50	<10	47	
I026585		20	0.01	<10	10	31	<10	57	
I026586		20	0.01	<10	<10	31	<10	18	
I026587		<20	<0.01	<10	<10	20	<10	19	
I026588		20	0.04	<10	<10	42	<10	15	
I026589		20	0.03	<10	<10	45	<10	14	
I026590		<20	<0.01	<10	<10	1	<10	<2	
I026591		20	0.06	<10	10	44	<10	24	
I026592		20	0.01	<10	<10	29	<10	73	
I026593		20	0.03	<10	<10	62	<10	18	
I026594		20	0.07	<10	<10	50	60	14	
I026595		20	0.08	<10	<10	49	<10	14	
I026596		20	0.05	<10	<10	39	<10	64	
I026597		20	0.08	<10	<10	45	<10	19	
I026598		20	0.07	<10	<10	63	300	22	
I026599		20	0.04	<10	10	57	<10	11	
I026600		<20	0.11	<10	<10	48	30	55	
I026601		20	0.03	<10	<10	61	160	23	
I026602		20	0.04	<10	<10	49	160	25	
I026603		20	0.03	<10	10	38	60	15	
I026604		20	0.04	<10	10	37	90	14	
I026605		20	0.01	<10	10	30	<10	27	
I026606		20	0.02	<10	10	39	<10	16	
I026607		30	0.15	<10	10	70	<10	15	
I026608		20	0.10	<10	10	50	<10	12	
I026609		20	0.07	<10	10	57	<10	14	
I026610		<20	<0.01	<10	<10	<1	<10	<2	
I026611		30	0.05	<10	10	62	<10	17	
I026612		20	0.04	<10	10	48	<10	13	
I026613		20	<0.01	<10	10	38	<10	12	
I026614		20	<0.01	<10	10	14	<10	14	
I026615		20	<0.01	<10	10	10	<10	10	
I026616		20	<0.01	<10	10	16	<10	13	
I026617		20	<0.01	<10	10	14	<10	48	
I026618		20	<0.01	<10	10	14	<10	166	
I026619		20	<0.01	<10	10	18	<10	63	
I026620		<20	0.10	<10	<10	48	30	57	

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026621		4.14	0.105	2.0	0.45	24	<10	50	0.6	2	1.30	<0.5	10	5	834	2.37
I026622		4.59	0.051	1.4	0.40	26	<10	30	0.6	<2	1.59	<0.5	6	5	578	2.13
I026623		4.84	0.287	6.7	0.32	48	<10	40	0.6	2	1.58	1.1	11	4	2740	2.80
I026624		4.19	0.092	1.6	0.40	15	<10	40	0.6	2	1.04	<0.5	9	6	710	2.41
I026625		4.59	0.127	2.3	0.71	7	<10	60	<0.5	6	0.96	<0.5	7	8	1050	2.69
I026626		4.54	0.027	0.5	0.70	6	<10	50	<0.5	2	0.97	<0.5	8	9	279	2.45
I026627		4.49	0.332	4.4	0.37	13	<10	40	<0.5	4	0.96	0.5	7	6	1870	2.58
I026628		4.28	0.356	1.0	0.51	13	<10	50	<0.5	5	1.02	<0.5	8	7	476	2.59
I026629		4.90	0.146	4.3	0.37	22	<10	40	0.6	<2	1.11	0.6	9	6	1685	2.58
I026630		0.40	<0.005	<0.2	0.02	2	10	20	<0.5	<2	>25.0	<0.5	<1	<1	6	0.07
I026631		4.37	0.575	9.0	0.31	26	<10	40	0.5	21	1.45	1.2	9	6	3280	2.72
I026632		4.47	0.061	1.2	0.68	7	<10	50	<0.5	3	1.00	<0.5	7	8	521	2.42
I026633		4.99	0.088	1.3	0.32	39	<10	40	<0.5	3	1.06	<0.5	6	6	631	1.86
I026634		4.07	0.093	2.3	0.51	37	<10	40	0.5	3	0.93	<0.5	8	6	1150	2.23
I026635		4.59	0.086	0.6	0.81	33	<10	40	0.7	3	1.31	<0.5	7	6	321	2.41
I026636		3.19	0.094	1.2	0.94	51	<10	40	0.8	4	1.23	<0.5	7	6	493	2.56
I026637		4.18	0.115	1.2	0.81	17	<10	70	<0.5	3	0.94	<0.5	7	8	556	2.57
I026638		4.70	0.039	0.8	0.31	66	<10	40	0.5	4	0.75	<0.5	6	7	363	1.46
I026639		4.05	0.028	0.4	0.34	32	<10	40	0.5	3	0.60	<0.5	7	7	211	1.60
I026640		0.19	0.329	2.6	1.63	28	10	60	<0.5	<2	0.82	2.2	10	28	2470	4.38
I026641		4.71	0.090	1.4	0.47	34	<10	50	0.5	<2	0.76	<0.5	7	7	703	2.06
I026642		4.76	0.239	2.7	0.33	45	<10	40	0.6	7	0.77	<0.5	7	7	1230	1.70
I026643		3.99	0.276	6.1	0.34	32	<10	40	0.7	45	0.91	0.7	8	5	2480	2.59
I026644		4.35	0.061	1.6	0.48	36	<10	30	0.5	6	0.82	<0.5	10	7	674	2.63
I026645		4.45	0.136	2.1	0.63	7	<10	70	<0.5	14	0.85	<0.5	6	7	813	1.99
I026646		3.93	0.084	2.2	1.02	8	<10	30	0.5	4	0.67	<0.5	10	11	798	2.90
I026647		4.02	0.131	2.1	1.11	8	<10	60	<0.5	10	0.91	<0.5	9	10	765	2.86
I026648		4.60	0.191	3.8	1.01	9	<10	50	<0.5	2	0.76	<0.5	10	10	1620	3.08
I026649		4.16	0.062	1.2	0.89	8	<10	70	<0.5	2	1.08	<0.5	6	10	527	2.45
I026650		0.32	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	7	0.07
I026651		4.85	0.039	0.9	0.64	12	<10	40	<0.5	9	1.01	<0.5	7	10	417	2.30
I026652		4.69	0.081	1.6	0.40	16	<10	40	0.5	3	1.00	<0.5	9	8	801	3.02
I026653		4.62	0.193	3.0	0.33	31	<10	260	0.7	4	1.19	0.5	10	4	1415	2.92
I026654		4.48	0.096	2.3	0.35	23	<10	140	0.7	2	1.07	0.5	8	4	1000	2.37
I026655		3.98	0.075	1.8	0.36	20	<10	60	0.5	2	0.84	<0.5	10	8	784	2.52
I026656		4.22	0.097	1.9	0.29	27	<10	60	0.6	2	0.87	<0.5	10	5	919	2.42
I026657		4.60	0.176	3.5	0.35	27	<10	60	0.8	2	1.60	0.6	9	6	1450	3.26
I026658		4.60	0.060	0.9	0.49	27	<10	50	0.7	2	1.07	<0.5	10	5	523	3.20
I026659		4.30	0.094	1.5	0.39	25	<10	70	0.7	2	0.92	<0.5	7	5	773	1.93
I026660		0.06	0.363	2.8	1.68	27	10	60	<0.5	3	0.84	2.2	10	29	2480	4.41

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026621		<10	<1	0.11	20	0.51	96	25	0.02	5	600	6	0.85	2	3	48
I026622		<10	<1	0.12	20	0.61	127	103	0.01	3	610	8	0.50	2	4	57
I026623		<10	<1	0.12	30	0.64	135	90	0.02	5	570	22	1.18	3	3	63
I026624		<10	<1	0.11	30	0.43	96	25	0.03	4	560	5	0.78	<2	3	63
I026625		<10	<1	0.21	30	0.57	120	49	0.04	4	580	5	0.71	<2	4	57
I026626		<10	<1	0.15	20	0.54	118	9	0.04	4	570	4	0.63	<2	4	46
I026627		<10	<1	0.13	30	0.46	152	174	0.04	4	560	22	0.71	<2	4	52
I026628		<10	<1	0.14	20	0.50	121	27	0.05	4	620	4	0.72	<2	4	47
I026629		<10	<1	0.14	40	0.45	156	244	0.03	5	570	12	0.88	<2	3	52
I026630		<10	<1	<0.01	<10	0.47	79	1	0.01	<1	70	<2	<0.01	<2	<1	93
I026631		<10	<1	0.13	30	0.53	194	153	0.03	6	540	36	1.03	<2	3	73
I026632		<10	<1	0.15	20	0.54	140	32	0.04	4	560	5	0.58	<2	4	47
I026633		<10	<1	0.12	20	0.33	105	34	0.03	4	550	5	0.64	<2	3	42
I026634		<10	<1	0.11	20	0.28	100	44	0.04	4	540	5	0.80	<2	3	49
I026635		<10	<1	0.11	30	0.38	94	5	0.03	3	550	5	0.69	<2	3	74
I026636		<10	<1	0.11	30	0.43	100	17	0.03	5	580	12	0.66	<2	3	78
I026637		10	<1	0.22	30	0.59	129	58	0.05	5	670	4	0.61	<2	4	41
I026638		<10	<1	0.11	30	0.20	87	23	0.04	5	650	5	0.54	<2	3	34
I026639		<10	<1	0.10	30	0.20	83	10	0.04	4	550	3	0.63	2	3	30
I026640		<10	<1	0.28	<10	0.55	727	234	0.06	21	730	73	2.13	3	2	54
I026641		<10	<1	0.10	30	0.32	100	12	0.04	4	560	5	0.65	2	3	39
I026642		<10	<1	0.11	30	0.23	88	44	0.03	4	550	4	0.61	<2	3	42
I026643		<10	<1	0.13	40	0.39	126	364	0.03	5	550	7	0.88	2	3	48
I026644		<10	<1	0.10	30	0.39	122	25	0.04	5	540	5	0.86	<2	3	43
I026645		<10	<1	0.12	20	0.45	105	24	0.04	4	400	5	0.54	2	2	31
I026646		10	<1	0.13	30	0.70	110	12	0.04	5	710	5	0.93	<2	3	34
I026647		10	<1	0.25	30	0.75	137	43	0.06	5	620	7	0.63	<2	4	37
I026648		10	<1	0.20	30	0.71	107	64	0.06	5	670	4	0.98	<2	4	33
I026649		10	<1	0.29	20	0.63	147	45	0.05	5	620	4	0.48	2	4	45
I026650		<10	<1	<0.01	<10	0.40	87	<1	0.01	<1	80	<2	<0.01	3	<1	90
I026651		<10	<1	0.16	20	0.47	122	26	0.04	4	500	6	0.63	<2	4	54
I026652		<10	<1	0.19	20	0.47	161	51	0.04	6	700	7	1.07	<2	4	70
I026653		<10	<1	0.18	20	0.55	184	71	0.02	6	710	7	0.97	2	4	80
I026654		<10	1	0.18	20	0.41	160	86	0.02	5	740	7	0.79	2	3	110
I026655		<10	<1	0.15	30	0.40	114	39	0.04	5	710	8	0.77	<2	4	61
I026656		<10	<1	0.14	20	0.36	99	23	0.03	6	680	7	0.86	<2	4	64
I026657		<10	<1	0.17	70	0.66	175	184	0.02	7	690	7	0.84	<2	6	88
I026658		<10	<1	0.14	30	0.47	107	18	0.03	6	800	6	0.99	2	6	82
I026659		<10	<1	0.17	20	0.35	103	86	0.02	5	530	10	0.79	2	2	96
I026660		<10	<1	0.29	<10	0.55	740	240	0.06	21	740	73	2.17	<2	2	55

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I026621		20	<0.01	<10	10	20	<10	21	
I026622		20	<0.01	<10	10	21	<10	26	
I026623		20	<0.01	<10	10	19	<10	85	
I026624		20	<0.01	<10	10	25	<10	17	
I026625		20	0.03	<10	10	37	<10	21	
I026626		20	0.01	<10	10	37	<10	16	
I026627		20	<0.01	<10	10	28	<10	45	
I026628		20	0.01	<10	10	32	<10	18	
I026629		20	<0.01	<10	10	23	<10	53	
I026630		<20	<0.01	<10	<10	<1	<10	2	
I026631		20	<0.01	<10	10	20	<10	91	
I026632		20	0.01	<10	10	34	<10	23	
I026633		20	<0.01	<10	10	20	<10	20	
I026634		20	<0.01	<10	10	22	<10	27	
I026635		20	<0.01	<10	10	24	<10	14	
I026636		20	0.01	<10	10	28	<10	20	
I026637		20	0.03	<10	10	44	<10	20	
I026638		20	<0.01	<10	10	21	<10	13	
I026639		20	<0.01	<10	10	21	<10	11	
I026640		<20	0.04	<10	<10	30	<10	432	
I026641		20	<0.01	<10	10	31	<10	21	
I026642		20	<0.01	<10	10	20	<10	28	
I026643		20	<0.01	<10	10	19	40	54	
I026644		20	<0.01	<10	10	29	10	22	
I026645		20	0.01	<10	10	25	10	25	
I026646		20	0.02	<10	10	58	<10	28	
I026647		<20	0.03	<10	<10	49	<10	31	
I026648		20	0.03	<10	<10	50	10	31	
I026649		30	0.05	<10	<10	45	10	19	
I026650		<20	<0.01	<10	<10	<1	<10	<2	
I026651		20	0.01	<10	10	33	<10	18	
I026652		20	<0.01	<10	<10	23	<10	27	
I026653		20	<0.01	<10	<10	16	<10	38	
I026654		20	<0.01	<10	<10	15	<10	29	
I026655		20	<0.01	<10	10	23	<10	25	
I026656		20	<0.01	<10	<10	16	<10	24	
I026657		20	<0.01	<10	<10	22	<10	39	
I026658		20	<0.01	<10	<10	29	<10	16	
I026659		20	<0.01	<10	10	10	<10	20	
I026660		<20	0.04	<10	<10	31	<10	434	

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026661		4.29	0.041	0.5	0.30	24	<10	90	0.6	3	2.14	<0.5	4	3	227	1.53
I026662		4.49	0.024	0.5	0.30	36	<10	40	0.8	2	1.66	<0.5	9	5	298	2.39
I026663		4.16	0.030	0.9	0.37	292	<10	50	0.7	3	1.51	<0.5	7	4	531	1.79
I026664		4.45	0.059	0.8	0.42	207	<10	110	0.8	3	2.58	<0.5	17	3	608	3.36
I026665		4.87	0.034	0.4	0.41	116	<10	540	0.7	2	3.94	<0.5	4	4	180	2.60
I026666		5.45	0.032	0.5	0.32	385	<10	70	0.5	2	1.62	<0.5	6	6	255	2.78
I026667		4.93	0.011	0.3	0.37	22	<10	240	0.8	<2	2.20	<0.5	3	3	81	1.56
I026668		5.06	0.157	3.2	0.37	37	<10	380	0.8	3	1.68	<0.5	5	3	1580	2.07
I026669		4.44	0.043	0.8	0.52	39	<10	140	0.9	<2	1.46	<0.5	5	3	407	1.70
I026670		0.55	<0.005	<0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	5	0.10
I026671		4.67	0.058	1.0	0.82	13	<10	100	<0.5	3	0.87	<0.5	11	11	580	3.02
I026672		4.32	0.042	0.7	0.65	10	<10	80	<0.5	2	1.05	<0.5	9	9	418	2.60
I026673		4.46	0.064	1.5	0.54	28	<10	60	0.5	3	1.01	<0.5	10	7	817	2.86
I026674		4.42	0.019	0.5	0.50	11	<10	50	0.6	2	1.18	<0.5	8	6	289	2.59
I026675		4.55	0.032	0.5	0.47	26	<10	80	0.5	2	1.09	<0.5	8	8	327	2.47
I026676		3.91	0.081	1.3	0.32	27	<10	40	0.8	<2	1.19	<0.5	11	6	676	2.58
I026677		5.03	0.052	1.0	0.34	17	<10	650	0.7	<2	1.26	<0.5	5	4	510	1.57
I026678		4.49	0.084	1.5	0.35	25	<10	440	0.8	<2	1.86	<0.5	4	4	738	2.02
I026679		4.33	0.296	2.8	0.39	22	<10	260	1.0	<2	2.34	<0.5	9	3	1540	2.14
I026680		0.06	0.708	3.0	1.18	14	10	120	<0.5	<2	0.80	<0.5	10	47	7990	2.53
I026681		4.36	0.081	1.2	0.43	18	<10	210	0.9	<2	1.77	<0.5	3	5	772	1.83
I026682		4.50	0.067	0.9	0.39	23	<10	40	0.9	<2	2.04	<0.5	5	4	463	2.33
I026683		4.43	0.021	0.4	0.61	27	<10	100	<0.5	<2	0.85	<0.5	7	7	193	2.27
I026684		4.53	0.039	0.6	0.55	24	<10	70	0.5	3	1.07	<0.5	7	8	284	2.42
I026685		4.48	0.062	0.6	0.36	57	<10	50	0.8	3	1.30	<0.5	5	4	377	1.94
I026686		4.53	0.181	1.1	0.36	66	<10	100	0.9	2	1.84	<0.5	9	4	683	3.22
I026687		4.14	0.048	0.6	0.44	19	<10	70	0.5	<2	0.98	<0.5	5	7	293	2.26
I026688		4.49	0.049	0.7	0.75	29	<10	70	0.5	3	0.90	<0.5	6	9	455	2.25
I026689		5.06	0.117	1.1	0.34	28	<10	50	0.5	3	1.05	<0.5	7	6	699	2.16
I026690		0.53	<0.005	<0.2	0.02	2	10	10	<0.5	2	>25.0	<0.5	<1	1	3	0.10
I026691		4.35	0.065	0.9	0.26	12	<10	70	0.5	<2	0.77	<0.5	5	6	510	1.77
I026692		4.22	0.029	0.3	0.46	50	<10	80	0.5	2	1.08	<0.5	6	7	195	2.10
I026693		4.32	0.409	1.7	0.50	13	<10	140	0.5	<2	1.04	<0.5	6	8	906	2.53
I026694		4.73	0.097	0.8	0.26	12	<10	90	<0.5	2	0.74	<0.5	10	7	437	2.50
I026695		5.24	0.124	1.3	0.32	19	<10	70	<0.5	<2	0.75	<0.5	11	7	734	2.34
I026696		3.98	0.073	0.9	0.20	32	<10	70	<0.5	5	0.64	<0.5	16	6	476	2.79
I026697		3.76	0.146	4.9	0.21	200	<10	90	<0.5	105	0.93	0.8	37	5	1130	3.92
I026698		3.83	0.088	1.1	0.24	13	<10	50	<0.5	<2	0.66	<0.5	10	6	587	2.19
I026699		4.70	0.125	1.2	0.27	11	<10	100	<0.5	3	0.70	<0.5	9	6	685	2.49
I026700		0.06	0.748	2.8	1.14	15	10	110	<0.5	3	0.74	<0.5	10	46	7710	2.41

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I026661		<10	<1	0.13	20	0.57	92	28	0.02	3	550	6	0.40	<2	2	117
I026662		<10	<1	0.15	20	0.59	90	2	0.03	6	530	6	0.82	3	3	126
I026663		<10	<1	0.13	20	0.48	85	37	0.02	4	620	5	0.51	3	3	93
I026664		<10	<1	0.14	20	0.75	105	1	0.02	6	560	3	1.92	4	4	147
I026665		<10	<1	0.11	10	0.97	247	1	0.01	2	250	3	0.60	2	2	189
I026666		<10	<1	0.09	10	0.56	155	1	0.01	3	120	5	1.56	8	2	86
I026667		<10	<1	0.16	10	0.70	122	1	0.02	2	380	8	0.19	<2	2	159
I026668		<10	<1	0.19	20	0.61	119	173	0.02	5	600	8	0.38	2	3	148
I026669		<10	<1	0.18	30	0.51	90	39	0.03	4	670	9	0.41	3	3	157
I026670		<10	<1	0.01	<10	0.54	117	1	0.01	<1	70	<2	<0.01	<2	<1	94
I026671		10	<1	0.29	50	0.69	94	7	0.07	6	800	6	0.97	<2	5	60
I026672		<10	<1	0.22	40	0.53	87	9	0.07	6	780	6	0.88	<2	5	67
I026673		<10	<1	0.18	30	0.53	95	34	0.06	6	610	6	0.94	3	4	75
I026674		<10	<1	0.19	20	0.54	89	3	0.05	4	570	8	0.79	<2	4	103
I026675		<10	<1	0.21	30	0.52	100	7	0.04	4	590	7	0.63	2	4	86
I026676		<10	<1	0.16	20	0.50	102	72	0.03	5	650	7	0.69	2	4	117
I026677		<10	<1	0.17	20	0.44	86	21	0.02	3	620	9	0.36	<2	3	122
I026678		<10	<1	0.19	20	0.65	120	42	0.02	4	590	10	0.33	<2	3	125
I026679		<10	<1	0.23	30	0.80	124	263	0.02	4	750	10	0.50	<2	3	165
I026680		<10	<1	0.10	<10	0.55	398	391	0.08	33	530	6	0.62	2	4	39
I026681		<10	<1	0.22	20	0.60	93	153	0.02	4	590	10	0.33	<2	3	163
I026682		<10	<1	0.17	20	0.72	104	135	0.02	4	590	10	0.38	<2	4	145
I026683		<10	<1	0.22	20	0.47	115	27	0.04	4	540	6	0.33	<2	4	65
I026684		<10	<1	0.15	20	0.51	103	13	0.04	4	520	8	0.40	<2	4	63
I026685		<10	<1	0.15	20	0.50	98	51	0.02	2	500	12	0.28	<2	4	135
I026686		<10	<1	0.19	20	0.71	156	114	0.02	2	560	13	1.16	<2	4	135
I026687		<10	<1	0.15	30	0.51	112	39	0.04	3	560	8	0.37	<2	4	73
I026688		<10	<1	0.21	20	0.57	91	28	0.06	4	520	8	0.56	<2	3	73
I026689		<10	<1	0.14	20	0.48	92	68	0.04	3	560	9	0.59	2	3	87
I026690		<10	<1	<0.01	<10	1.52	96	<1	<0.01	<1	60	<2	<0.01	<2	<1	75
I026691		<10	<1	0.13	20	0.35	86	56	0.04	2	470	8	0.43	2	2	67
I026692		<10	<1	0.14	20	0.50	88	11	0.03	2	500	8	0.47	2	3	71
I026693		<10	<1	0.17	20	0.54	102	234	0.04	3	580	7	0.51	<2	3	70
I026694		<10	<1	0.14	20	0.44	97	224	0.03	4	540	9	0.77	<2	3	58
I026695		<10	<1	0.18	20	0.49	103	129	0.03	3	560	7	0.71	<2	4	64
I026696		<10	<1	0.16	10	0.45	105	124	0.01	4	780	9	1.22	<2	3	76
I026697		<10	<1	0.17	10	0.51	212	92	0.01	7	740	194	2.27	2	2	96
I026698		<10	<1	0.15	20	0.44	109	49	0.03	3	560	9	0.67	<2	3	55
I026699		<10	<1	0.14	20	0.52	108	86	0.04	3	540	7	0.75	<2	3	64
I026700		<10	<1	0.09	<10	0.53	394	366	0.07	31	500	6	0.60	2	4	36

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I026661		20	<0.01	<10	10	8	<10	12	
I026662		20	<0.01	<10	10	10	<10	13	
I026663		20	<0.01	<10	10	16	<10	17	
I026664		20	<0.01	<10	10	15	<10	14	
I026665		<20	<0.01	<10	10	7	<10	9	
I026666		<20	<0.01	<10	<10	11	<10	10	
I026667		20	<0.01	<10	10	7	<10	11	
I026668		20	<0.01	<10	10	10	<10	31	
I026669		20	<0.01	<10	10	10	<10	18	
I026670		<20	<0.01	<10	<10	<1	10	<2	
I026671		30	0.04	<10	10	49	<10	17	
I026672		30	0.02	<10	10	37	10	17	
I026673		20	0.01	<10	10	25	20	21	
I026674		20	0.01	<10	10	22	<10	14	
I026675		20	0.02	<10	10	25	<10	13	
I026676		20	<0.01	<10	10	16	<10	19	
I026677		20	<0.01	<10	10	10	<10	18	
I026678		20	<0.01	<10	10	15	<10	20	
I026679		20	<0.01	<10	10	17	<10	22	
I026680		<20	0.11	<10	<10	49	30	57	
I026681		20	<0.01	<10	10	12	<10	16	
I026682		20	<0.01	<10	10	13	<10	15	
I026683		20	0.03	<10	10	28	<10	13	
I026684		20	0.01	<10	10	26	<10	13	
I026685		20	<0.01	<10	10	12	<10	14	
I026686		20	<0.01	<10	10	17	<10	17	
I026687		20	0.01	<10	10	22	10	17	
I026688		20	0.01	<10	<10	32	<10	18	
I026689		30	<0.01	<10	10	17	<10	20	
I026690		<20	<0.01	<10	<10	<1	<10	4	
I026691		20	<0.01	<10	10	13	10	17	
I026692		20	0.01	<10	10	26	<10	13	
I026693		20	0.01	<10	10	28	<10	24	
I026694		20	<0.01	<10	10	17	20	20	
I026695		20	0.01	<10	10	19	40	25	
I026696		<20	<0.01	<10	<10	11	<10	26	
I026697		<20	<0.01	<10	10	7	40	60	
I026698		20	<0.01	<10	<10	14	<10	29	
I026699		20	<0.01	<10	10	15	<10	23	
I026700		<20	0.10	<10	<10	47	30	56	

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026701		4.52	0.197	1.6	0.30	66	<10	110	0.5	4	1.06	<0.5	21	5	1055	3.62
I026702		4.56	0.044	0.7	0.39	56	<10	50	0.8	2	1.68	<0.5	6	6	420	2.01
I026703		4.39	0.084	1.3	0.70	19	<10	60	<0.5	3	0.84	<0.5	8	8	845	2.44
I026704		4.32	0.102	1.3	0.56	8	<10	60	<0.5	6	0.70	<0.5	9	8	787	2.50
I026705		4.48	0.220	1.1	0.29	35	<10	80	0.6	<2	0.70	<0.5	12	6	660	2.95
I026706		2.69	0.200	1.8	0.36	55	<10	40	0.5	2	0.86	<0.5	10	6	933	2.66
I026707		4.17	0.270	1.9	0.37	40	<10	70	<0.5	4	0.78	0.5	12	7	1145	2.66
I026708		0.36	<0.005	<0.2	0.03	2	<10	10	<0.5	2	>25.0	<0.5	<1	1	4	0.08
I026709		1.77	0.516	5.8	0.20	522	<10	40	<0.5	57	0.63	2.5	22	4	1815	4.73
I026710		0.36	<0.005	<0.2	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	3	0.08
I026711		3.29	0.668	19.8	0.21	1155	<10	40	<0.5	43	0.58	25.5	13	4	4590	3.25
I026712		3.05	1.900	29.1	0.25	956	<10	80	<0.5	126	0.64	8.8	26	4	2180	4.53
I026713		3.35	1.825	8.6	0.32	603	<10	40	0.6	29	0.94	5.7	31	3	753	3.86
I026714		2.91	0.877	11.4	0.21	2420	<10	40	<0.5	49	0.78	4.2	46	4	2590	5.43
I026715		3.07	2.73	7.3	0.22	6510	<10	40	<0.5	11	0.42	3.4	22	4	2100	4.32
I026716		3.15	1.900	23.9	0.19	1765	<10	60	<0.5	56	0.84	39.0	45	4	5220	6.50
I026717		3.46	1.265	45.9	0.22	3590	<10	30	<0.5	115	0.82	49.3	112	4	3930	9.31
I026718		3.20	0.771	4.6	0.22	4780	<10	40	<0.5	10	0.51	3.4	65	4	1625	6.11
I026719		0.06	1.400	4.6	1.36	20	10	140	<0.5	3	0.81	0.5	12	40	>10000	3.19
I026720		2.73	1.280	19.1	0.21	3720	<10	30	<0.5	54	0.61	16.2	56	5	7820	6.95
I026721		3.31	0.714	6.2	0.22	1195	<10	30	<0.5	16	1.03	2.5	105	3	2880	8.92
I026722		3.18	0.902	22.1	0.20	3710	<10	40	<0.5	23	1.26	8.0	76	3	7000	7.82
I026723		3.02	0.370	4.8	0.28	2440	<10	30	<0.5	51	0.78	1.7	50	3	2750	5.53
I026724		2.96	0.165	2.0	0.27	81	<10	50	<0.5	20	0.79	0.6	15	5	843	2.76
I026725		3.22	0.213	4.7	0.28	828	<10	110	0.5	10	0.99	1.0	20	4	449	3.56
I026726		2.87	0.104	1.1	0.26	55	<10	50	<0.5	<2	0.85	<0.5	9	6	567	2.16
I026727		2.99	0.143	1.3	0.40	157	<10	40	0.6	<2	0.82	<0.5	20	5	503	3.35
I026728		3.19	1.105	30.2	0.19	2230	<10	20	<0.5	93	0.88	10.0	106	4	>10000	8.89
I026729		0.41	<0.005	<0.2	0.03	5	<10	10	<0.5	<2	>25.0	<0.5	<1	1	36	0.13
I026730		3.42	1.250	14.3	0.20	5600	<10	40	<0.5	13	0.84	5.6	32	4	5320	4.18
I026731		0.40	<0.005	<0.2	0.03	6	<10	20	<0.5	<2	>25.0	<0.5	<1	1	9	0.08
I026732		3.84	3.06	6.2	0.28	2290	<10	60	0.5	8	1.29	1.7	18	4	2360	3.33
I026733		0.34	0.008	<0.2	0.02	9	<10	10	<0.5	<2	>25.0	<0.5	<1	1	5	0.09
I026734		4.22	1.070	8.3	0.32	2860	<10	30	0.6	17	1.57	2.5	25	4	2620	3.87
I026735		4.50	0.478	7.0	0.32	729	<10	50	0.5	19	1.25	0.9	14	4	1265	3.72
I026736		4.58	0.203	7.8	0.24	457	<10	50	<0.5	12	1.59	2.0	16	4	2980	3.10
I026737		4.50	0.068	5.5	0.34	63	<10	50	<0.5	8	0.80	3.4	30	5	2120	4.03
I026738		4.42	0.279	2.8	0.19	63	<10	40	<0.5	10	0.80	1.2	12	5	1315	2.46
I026739		4.63	0.084	1.3	0.25	185	<10	40	<0.5	5	1.01	<0.5	9	4	566	2.22
I026740		0.06	0.687	2.9	1.15	15	10	110	<0.5	3	0.76	<0.5	9	46	7730	2.40

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026701		<10	<1	0.15	20	0.60	119	55	0.03	5	550	10	1.64	3	3	79
I026702		<10	<1	0.19	20	0.68	97	24	0.03	3	510	7	0.48	2	4	144
I026703		<10	<1	0.18	20	0.58	90	66	0.05	3	590	6	0.73	2	4	51
I026704		<10	<1	0.16	30	0.58	92	79	0.04	3	560	7	0.85	3	3	54
I026705		<10	<1	0.14	20	0.51	100	109	0.04	4	660	8	1.07	2	4	66
I026706		<10	<1	0.16	20	0.52	95	107	0.04	3	580	6	0.91	2	4	70
I026707		<10	<1	0.17	30	0.53	154	90	0.03	4	550	18	1.00	2	3	68
I026708		<10	<1	<0.01	<10	0.38	78	<1	0.01	<1	80	<2	<0.01	<2	<1	80
I026709		<10	<1	0.16	20	0.51	483	74	0.01	5	700	228	3.73	7	3	78
I026710		<10	<1	<0.01	<10	0.92	110	<1	<0.01	<1	60	<2	<0.01	<2	<1	83
I026711		<10	<1	0.16	20	0.59	641	91	0.01	6	650	939	1.55	18	3	63
I026712		<10	<1	0.17	20	0.60	560	113	0.01	6	590	2370	3.12	12	3	78
I026713		<10	<1	0.16	10	0.55	381	102	0.01	3	560	697	2.72	9	4	107
I026714		<10	<1	0.16	20	0.79	724	96	0.01	20	610	409	3.32	21	4	82
I026715		<10	<1	0.17	10	0.49	455	104	0.01	9	600	240	2.81	32	2	55
I026716		<10	<1	0.14	10	0.91	915	120	0.01	15	590	1400	4.20	24	4	105
I026717		<10	<1	0.15	10	0.89	856	107	0.01	34	490	4090	7.55	37	3	108
I026718		<10	<1	0.14	20	0.57	482	87	0.01	17	600	96	4.18	22	3	57
I026719		<10	<1	0.13	10	0.62	484	476	0.10	33	530	10	0.94	2	5	43
I026720		<10	<1	0.14	20	0.82	794	113	0.01	17	540	640	4.27	21	4	74
I026721		<10	<1	0.15	10	0.93	747	99	0.01	33	490	186	6.50	20	4	113
I026722		<10	<1	0.13	10	1.19	1055	74	0.01	27	480	340	4.46	29	4	123
I026723		<10	<1	0.18	20	0.79	684	114	0.01	14	610	112	2.51	19	4	85
I026724		<10	<1	0.14	20	0.51	262	155	0.02	4	540	38	0.92	6	3	79
I026725		<10	<1	0.17	20	0.71	457	65	0.01	6	680	125	1.18	8	4	115
I026726		<10	<1	0.15	20	0.47	238	109	0.03	3	650	11	0.56	3	4	81
I026727		<10	<1	0.16	30	0.57	330	192	0.02	6	660	32	0.99	4	4	75
I026728		<10	<1	0.12	30	0.72	497	82	0.01	29	460	286	5.71	80	3	82
I026729		<10	<1	0.01	<10	0.42	77	<1	0.01	<1	60	2	0.02	<2	<1	73
I026730		<10	<1	0.13	20	0.72	571	127	0.02	6	460	143	1.74	48	3	77
I026731		<10	<1	0.01	<10	0.44	80	<1	<0.01	<1	70	<2	<0.01	<2	<1	89
I026732		<10	<1	0.16	20	0.70	357	99	0.02	7	570	87	1.43	26	4	116
I026733		<10	<1	<0.01	<10	0.35	80	<1	0.01	<1	60	<2	<0.01	<2	<1	81
I026734		<10	1	0.19	40	0.79	431	247	0.01	7	1140	196	1.77	48	7	187
I026735		<10	<1	0.18	20	0.93	709	203	0.02	4	710	279	1.11	88	5	142
I026736		<10	<1	0.16	30	0.91	500	206	0.02	7	750	106	1.21	60	4	172
I026737		<10	<1	0.20	40	0.71	416	116	0.03	12	640	56	1.49	5	4	75
I026738		<10	<1	0.13	20	0.67	297	106	0.02	3	500	27	0.54	2	3	79
I026739		<10	<1	0.16	20	0.61	255	106	0.02	4	590	15	0.51	5	4	97
I026740		<10	1	0.09	<10	0.53	393	378	0.07	31	500	6	0.60	<2	4	37

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I026701		20	<0.01	<10	10	23	70	30	
I026702		20	<0.01	<10	10	19	10	16	
I026703		20	0.01	<10	10	36	10	21	
I026704		20	0.01	<10	<10	31	<10	19	
I026705		20	<0.01	<10	10	19	<10	21	
I026706		20	<0.01	<10	10	23	<10	21	
I026707		20	<0.01	<10	10	19	<10	42	
I026708		<20	<0.01	<10	<10	<1	<10	<2	
I026709		<20	<0.01	<10	10	10	20	178	
I026710		<20	<0.01	<10	<10	<1	<10	<2	
I026711		<20	<0.01	<10	10	10	420	1645	
I026712		<20	<0.01	<10	10	9	250	571	
I026713		<20	<0.01	<10	10	11	90	381	
I026714		<20	<0.01	<10	10	12	120	309	
I026715		<20	<0.01	<10	10	7	130	262	
I026716		<20	<0.01	<10	10	14	550	2310	
I026717		<20	<0.01	<10	10	11	220	3440	
I026718		20	<0.01	<10	10	9	300	237	
I026719		<20	0.12	<10	<10	54	30	77	1.320
I026720		<20	<0.01	<10	10	15	270	1100	
I026721		<20	<0.01	<10	10	12	90	195	
I026722		<20	<0.01	<10	10	15	50	544	
I026723		<20	<0.01	<10	10	11	60	134	
I026724		20	<0.01	<10	10	13	20	57	
I026725		20	<0.01	<10	10	14	40	87	
I026726		20	<0.01	<10	<10	12	10	40	
I026727		20	<0.01	<10	10	18	20	45	
I026728		<20	<0.01	<10	10	27	410	605	1.565
I026729		<20	<0.01	<10	<10	<1	<10	3	
I026730		<20	<0.01	<10	10	11	120	367	
I026731		<20	<0.01	<10	<10	<1	<10	<2	
I026732		20	<0.01	<10	10	12	40	128	
I026733		<20	<0.01	<10	<10	<1	<10	8	
I026734		30	<0.01	<10	10	23	460	192	
I026735		<20	<0.01	<10	10	19	210	83	
I026736		20	<0.01	<10	10	13	640	140	
I026737		20	<0.01	<10	10	19	280	221	
I026738		20	<0.01	<10	10	11	30	79	
I026739		20	<0.01	<10	10	12	10	46	
I026740		<20	0.11	<10	<10	48	30	56	

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I026741		4.63	0.337	3.0	0.31	46	<10	60	0.8	13	1.90	0.8	12	4	1720	2.31

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I026741		<10	<1	0.19	20	0.83	229	186	0.02	5	720	14	0.58	8	4	124

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I026741		20	<0.01	<10	<10	19	<10	66	

Comments: **Corrected copy for Au- AA23 on samples I026711 to I026728**

***** See Appendix Page for comments regarding this certificate *****

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17156183

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au- AA23	Cu- OG46	ME- ICP41	ME- OG46

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164166

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 170 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E443771		6.74	0.028	0.2	1.18	4	<10	250	<0.5	29	0.93	<0.5	9	13	180	3.52
E443772		6.65	0.154	0.7	0.91	21	<10	150	0.5	3	0.91	<0.5	12	10	504	3.89
E443773		0.51	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.10
E443774		7.02	0.715	1.3	0.53	26	<10	80	0.8	5	2.92	<0.5	11	5	754	3.67
E443775		6.82	0.084	0.5	0.69	13	<10	80	0.5	10	1.01	<0.5	10	7	343	3.50
E443776		6.78	0.038	0.3	1.25	5	<10	190	<0.5	131	0.93	<0.5	9	13	203	3.51
E443777		6.43	0.018	0.2	1.34	3	<10	190	<0.5	<2	0.98	<0.5	8	13	161	3.49
E443778		6.81	0.322	2.0	1.38	3	<10	170	<0.5	2	0.95	<0.5	12	13	996	3.68
E443779		6.42	0.108	0.9	1.36	4	<10	140	<0.5	<2	0.77	<0.5	11	13	529	3.58
E443780		0.06	0.727	3.0	1.19	13	10	110	<0.5	2	0.78	<0.5	10	50	7810	2.52
E443781		6.85	0.221	4.0	1.25	16	<10	120	<0.5	2	1.22	1.5	9	11	1620	3.30
E443782		6.53	0.087	1.6	1.48	6	<10	170	<0.5	2	0.87	<0.5	13	13	801	3.86
E443783		6.56	0.209	2.8	1.27	5	<10	100	<0.5	2	1.13	<0.5	12	11	1280	3.67
E443784		5.06	0.061	1.0	0.97	8	<10	90	<0.5	<2	0.88	<0.5	11	11	563	3.38
E443785		4.42	0.242	2.8	0.46	74	<10	70	0.6	3	1.94	1.8	12	5	1140	3.14
E443786		3.44	0.987	7.4	0.39	21	<10	50	0.5	4	2.67	1.7	8	4	3650	2.50
E443787		2.80	1.035	7.9	0.31	18	<10	110	<0.5	19	1.65	1.1	10	4	3590	2.13
E443788		3.12	2.03	10.1	0.35	11	<10	60	0.5	9	1.62	1.8	10	6	5440	2.69
E443789		3.16	1.805	14.5	0.31	8	<10	50	<0.5	33	1.81	3.1	11	5	7150	2.85
E443790		0.42	0.019	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	1	1	39	0.16
E443791		3.51	1.110	9.5	0.35	13	<10	60	<0.5	7	1.73	3.4	10	5	5430	2.76
E443792		2.95	0.452	9.7	0.43	10	<10	50	<0.5	6	1.32	4.8	8	6	4300	2.66
E443793		3.34	1.450	11.0	0.79	12	<10	50	<0.5	5	1.20	3.1	12	9	5700	3.19
E443794		2.92	1.765	16.9	0.78	12	<10	50	<0.5	5	1.03	3.7	11	9	9150	3.30
E443795		3.49	1.560	7.8	0.88	9	<10	50	<0.5	8	1.09	1.5	11	9	4210	2.91
E443796		3.61	0.997	7.7	0.91	16	<10	60	<0.5	8	1.10	1.9	12	9	3500	2.66
E443797		3.61	2.17	8.0	0.88	11	<10	40	<0.5	2	1.14	2.0	8	9	3720	2.32
E443798		3.12	2.92	5.7	1.05	14	<10	70	0.5	11	1.09	1.4	12	9	2950	2.79
E443799		2.74	5.07	11.4	0.95	20	<10	40	<0.5	9	1.42	3.4	7	9	4750	2.60
E443800		0.06	0.736	4.8	1.43	20	10	150	<0.5	<2	0.85	<0.5	12	43	>10000	3.47
E443801		3.17	0.850	10.9	0.83	15	<10	220	<0.5	4	1.64	3.2	7	8	4500	2.52
E443802		3.12	2.69	7.6	0.97	9	<10	40	<0.5	2	1.19	3.0	6	9	3600	2.28
E443803		3.32	3.94	11.7	0.88	10	<10	50	<0.5	12	1.12	3.2	8	10	5000	2.77
E443804		3.00	0.493	13.1	0.95	26	<10	80	<0.5	17	1.27	5.1	8	8	4060	3.27
E443805		3.33	1.630	10.2	0.94	11	<10	110	<0.5	3	1.08	3.0	9	9	4790	2.69
E443806		2.63	4.41	4.6	0.68	8	<10	60	<0.5	2	0.90	1.5	4	9	1900	1.88
E443807		3.31	0.602	10.6	0.87	13	<10	50	<0.5	65	1.04	4.4	7	8	3290	2.83
E443808		3.31	1.675	10.9	0.72	8	<10	50	<0.5	3	1.21	4.0	7	7	4970	2.48
E443809		3.38	1.270	11.8	0.65	8	<10	50	<0.5	6	1.24	13.2	6	7	4750	2.64
E443810		0.30	0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	17	0.11

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443771		10	<1	0.54	20	0.93	222	<1	0.09	7	870	2	0.86	<2	7	75
E443772		<10	<1	0.35	20	0.74	177	7	0.06	7	910	3	1.37	<2	6	103
E443773		<10	<1	0.01	<10	0.63	87	<1	<0.01	<1	60	<2	0.01	<2	<1	89
E443774		<10	<1	0.15	20	1.05	207	162	0.01	7	800	7	1.18	2	6	297
E443775		<10	<1	0.21	30	0.68	129	3	0.04	5	860	3	1.22	2	5	79
E443776		10	<1	0.43	20	0.94	162	1	0.07	6	840	2	1.00	2	6	64
E443777		10	<1	0.45	30	0.94	162	1	0.08	6	860	3	0.90	<2	6	60
E443778		10	<1	0.35	20	1.00	165	3	0.06	7	840	6	1.25	2	6	58
E443779		10	<1	0.28	30	0.95	113	4	0.06	6	840	4	1.27	<2	6	72
E443780		<10	<1	0.10	<10	0.56	394	385	0.07	33	510	6	0.62	<2	4	38
E443781		10	<1	0.19	20	0.95	217	267	0.03	6	820	48	1.20	3	5	74
E443782		10	<1	0.38	30	1.06	161	61	0.06	7	870	7	1.20	<2	6	57
E443783		10	<1	0.26	30	0.94	138	15	0.04	6	850	5	1.30	2	5	78
E443784		10	<1	0.21	30	0.74	99	13	0.05	6	890	4	1.35	2	5	62
E443785		<10	<1	0.19	20	0.76	166	171	0.02	6	790	76	1.72	5	5	162
E443786		<10	<1	0.21	10	0.97	230	35	0.02	7	810	15	0.94	2	5	195
E443787		<10	<1	0.18	10	0.63	133	34	0.01	5	640	14	0.98	3	3	136
E443788		<10	<1	0.21	20	0.61	167	80	0.02	8	840	11	1.55	3	5	118
E443789		<10	<1	0.19	10	0.73	201	180	0.02	11	810	22	1.33	3	5	139
E443790		<10	<1	0.01	<10	0.46	94	1	0.01	1	80	<2	0.05	<2	<1	86
E443791		<10	<1	0.20	10	0.79	211	64	0.02	8	770	24	1.37	2	5	169
E443792		<10	<1	0.19	20	0.73	226	224	0.03	7	810	72	1.04	<2	5	114
E443793		<10	<1	0.21	20	0.97	242	114	0.03	10	870	15	1.27	<2	6	85
E443794		10	<1	0.17	20	0.90	202	131	0.03	13	830	13	1.59	<2	5	60
E443795		10	<1	0.18	20	0.95	170	67	0.03	8	840	9	1.17	<2	5	67
E443796		<10	<1	0.19	20	0.96	244	135	0.02	7	810	27	1.06	<2	5	86
E443797		10	<1	0.19	20	0.87	213	107	0.02	7	770	10	0.84	<2	5	66
E443798		10	<1	0.26	20	0.92	195	98	0.03	8	860	14	1.06	<2	5	82
E443799		10	<1	0.18	20	1.05	326	75	0.02	8	800	34	0.92	<2	5	82
E443800		<10	<1	0.14	10	0.66	495	491	0.10	34	550	8	0.95	2	5	45
E443801		10	<1	0.18	20	1.00	315	128	0.02	8	770	25	1.03	<2	4	83
E443802		10	<1	0.19	20	1.04	297	141	0.02	7	830	51	0.66	<2	5	67
E443803		10	<1	0.20	20	0.98	266	157	0.02	9	860	31	1.06	2	5	73
E443804		10	<1	0.18	20	1.15	332	139	0.02	9	800	271	1.29	<2	5	99
E443805		10	<1	0.21	20	1.01	250	74	0.03	11	820	33	0.97	<2	5	65
E443806		<10	<1	0.17	10	0.79	213	175	0.03	6	650	22	0.49	<2	4	61
E443807		10	<1	0.18	20	0.99	301	155	0.03	8	790	192	1.09	<2	5	71
E443808		<10	<1	0.17	10	0.88	260	187	0.02	9	790	77	1.00	<2	5	75
E443809		<10	<1	0.18	10	0.90	302	143	0.02	8	750	160	1.09	<2	4	94
E443810		<10	1	<0.01	<10	0.73	84	1	0.01	<1	60	<2	<0.01	<2	<1	82

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
E443771		20	0.11	<10	<10	68	<10	17	
E443772		20	0.04	<10	<10	47	<10	20	
E443773		<20	<0.01	<10	<10	<1	<10	<2	
E443774		<20	<0.01	<10	<10	27	<10	31	
E443775		20	0.01	<10	<10	41	<10	16	
E443776		<20	0.08	<10	<10	68	<10	15	
E443777		20	0.10	<10	<10	72	<10	15	
E443778		20	0.07	<10	<10	72	<10	31	
E443779		20	0.05	<10	<10	72	<10	18	
E443780		<20	0.11	<10	<10	50	30	59	
E443781		<20	0.01	<10	<10	56	<10	91	
E443782		20	0.07	<10	<10	74	<10	31	
E443783		<20	0.03	<10	<10	63	<10	38	
E443784		20	0.02	<10	<10	60	<10	16	
E443785		20	<0.01	<10	<10	19	10	121	
E443786		<20	<0.01	<10	<10	19	<10	102	
E443787		<20	<0.01	<10	10	11	<10	73	
E443788		20	<0.01	<10	<10	22	<10	115	
E443789		<20	<0.01	<10	<10	24	<10	184	
E443790		<20	0.01	<10	<10	1	<10	2	
E443791		<20	<0.01	<10	<10	24	<10	180	
E443792		<20	<0.01	<10	<10	29	<10	263	
E443793		<20	0.01	<10	<10	44	<10	176	
E443794		<20	<0.01	<10	<10	44	<10	226	
E443795		<20	<0.01	<10	<10	45	<10	99	
E443796		<20	<0.01	<10	<10	42	<10	113	
E443797		<20	<0.01	<10	<10	43	<10	114	
E443798		<20	0.02	<10	<10	50	<10	86	
E443799		<20	<0.01	<10	<10	41	<10	183	
E443800		<20	0.12	<10	<10	58	30	79	1.315
E443801		<20	<0.01	<10	<10	36	<10	171	
E443802		<20	<0.01	<10	<10	41	<10	170	
E443803		<20	<0.01	<10	<10	41	<10	169	
E443804		<20	<0.01	<10	<10	38	<10	309	
E443805		<20	0.01	<10	<10	42	<10	155	
E443806		<20	<0.01	<10	<10	29	<10	79	
E443807		<20	<0.01	<10	<10	39	<10	228	
E443808		<20	<0.01	<10	<10	32	<10	216	
E443809		<20	<0.01	<10	<10	30	<10	746	
E443810		<20	<0.01	<10	<10	<1	<10	4	

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E443811		3.28	1.470	11.1	0.50	8	<10	50	<0.5	15	1.01	6.1	5	7	3970	2.26
E443812		3.17	0.541	12.9	0.36	10	<10	60	<0.5	27	0.89	5.5	4	5	2890	2.01
E443813		3.42	0.394	8.0	0.32	14	<10	60	<0.5	4	1.16	6.4	5	5	3100	2.17
E443814		3.32	1.300	5.9	0.34	18	<10	50	<0.5	3	0.97	2.3	6	6	2300	2.18
E443815		3.44	1.645	8.7	0.37	10	<10	50	<0.5	40	1.17	4.5	7	6	3350	2.27
E443816		3.17	0.895	12.0	0.38	10	<10	50	<0.5	117	1.34	4.2	7	5	2030	2.29
E443817		3.22	0.817	7.4	0.31	19	<10	80	<0.5	50	1.33	3.5	8	5	2500	2.27
E443818		3.26	0.825	3.7	0.30	22	<10	90	<0.5	35	1.42	1.3	5	5	1780	1.86
E443819		2.99	0.924	5.5	0.46	11	<10	90	<0.5	22	1.37	1.8	5	7	2480	2.07
E443820		0.06	1.305	4.5	1.42	19	10	140	<0.5	2	0.85	0.5	12	41	>10000	3.30
E443821		3.39	1.110	4.3	0.61	21	<10	70	<0.5	8	1.08	6.5	10	8	1780	2.52
E443822		6.62	1.870	7.3	0.69	12	<10	50	<0.5	127	1.07	2.4	9	8	2680	2.36
E443823		6.32	0.965	6.2	1.04	7	<10	70	<0.5	72	1.17	2.0	10	9	2620	2.71
E443824		6.36	0.397	4.7	0.90	8	<10	60	<0.5	13	1.23	1.4	11	10	2450	2.75
E443825		6.18	0.841	1.9	0.47	18	<10	120	0.5	3	1.27	0.5	11	7	1050	2.99
E443826		6.50	0.215	2.2	0.56	40	<10	170	0.6	3	1.67	1.1	12	5	1140	3.13
E443827		6.59	0.503	3.6	0.60	1085	<10	220	0.7	2	1.87	1.0	10	5	1800	3.20
E443828		5.19	0.127	0.5	0.42	308	<10	100	0.8	4	5.16	1.1	7	3	260	3.52
E443829		6.90	0.201	2.5	0.71	116	<10	160	0.5	3	1.56	3.0	11	7	997	3.78
E443830		0.39	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	1	1	21	0.42
E443831		6.75	0.171	1.1	1.41	1180	<10	130	<0.5	4	1.02	1.8	10	9	544	4.40
E443832		6.67	0.027	0.3	1.22	4	<10	130	<0.5	<2	0.93	<0.5	10	9	296	4.11
E443833		6.97	0.132	0.9	0.81	783	<10	90	<0.5	2	1.71	<0.5	13	6	642	4.21
E443834		6.76	0.155	0.2	1.77	5	<10	160	0.5	9	1.13	<0.5	8	11	188	3.41
E443835		6.93	0.062	<0.2	1.90	127	<10	170	<0.5	<2	1.18	<0.5	8	13	166	3.77
E443836		6.33	0.024	0.2	1.18	2	<10	130	<0.5	3	0.98	<0.5	8	11	220	3.02
E443837		6.35	0.024	0.2	1.65	2	<10	130	<0.5	117	1.12	<0.5	8	12	274	3.48
E443838		6.56	0.027	<0.2	1.47	<2	<10	140	<0.5	3	1.00	<0.5	8	12	189	3.41
E443839		6.63	0.101	<0.2	1.35	2	<10	220	<0.5	4	1.12	<0.5	8	11	188	3.13
E443840		0.06	0.335	2.4	1.70	26	10	60	<0.5	<2	0.82	2.0	9	27	2410	4.26
E443841		6.89	0.012	0.4	1.01	3	<10	170	<0.5	<2	1.26	<0.5	8	11	249	3.17
E443842		6.07	0.213	0.8	1.33	<2	<10	200	<0.5	4	1.27	<0.5	9	13	400	3.32
E443843		6.66	0.049	<0.2	1.26	<2	<10	190	<0.5	2	1.12	<0.5	8	12	105	3.15
E443844		6.25	0.142	<0.2	0.56	1575	<10	150	0.6	2	1.62	<0.5	8	6	154	3.38
E443845		6.09	0.144	0.5	0.43	1195	<10	180	0.7	7	1.59	<0.5	9	4	259	3.39
E443846		6.78	0.051	0.3	0.71	26	<10	240	0.6	9	1.58	<0.5	12	7	329	3.67
E443847		6.33	0.067	<0.2	0.88	9	<10	120	<0.5	5	1.35	<0.5	9	9	118	3.22
E443848		6.49	1.225	1.3	0.78	985	<10	130	0.6	21	1.42	<0.5	13	7	500	3.69
E443849		6.59	0.070	<0.2	1.52	3	<10	180	<0.5	2	1.44	<0.5	7	11	101	3.01
E443850		0.36	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.10

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443811		<10	<1	0.18	10	0.73	277	154	0.02	7	780	216	0.76	<2	4	74
E443812		<10	<1	0.18	10	0.63	258	147	0.02	6	760	359	0.57	<2	4	64
E443813		<10	<1	0.21	10	0.70	298	284	0.03	6	780	87	0.66	<2	4	102
E443814		<10	<1	0.20	10	0.64	243	204	0.03	7	770	53	0.72	<2	4	79
E443815		<10	<1	0.21	20	0.70	245	126	0.03	7	770	114	0.79	<2	4	89
E443816		<10	<1	0.21	10	0.76	268	144	0.02	6	780	465	0.78	5	4	111
E443817		<10	<1	0.21	10	0.74	263	269	0.03	6	780	144	0.83	2	4	115
E443818		<10	<1	0.20	10	0.62	230	559	0.03	5	730	27	0.71	3	4	93
E443819		<10	<1	0.19	10	0.71	221	1040	0.03	6	760	27	0.72	<2	5	82
E443820		<10	1	0.13	10	0.63	476	475	0.11	33	520	9	0.93	3	5	45
E443821		<10	<1	0.24	20	0.77	220	117	0.03	6	800	94	0.87	<2	5	68
E443822		<10	<1	0.22	20	0.82	204	383	0.03	7	740	68	0.88	2	5	64
E443823		10	<1	0.25	20	0.94	180	447	0.04	6	780	44	1.03	<2	5	60
E443824		<10	<1	0.19	20	0.88	166	274	0.04	6	780	17	1.03	<2	5	74
E443825		<10	<1	0.18	20	0.67	128	331	0.04	6	790	10	1.18	<2	5	103
E443826		<10	<1	0.19	20	0.74	146	156	0.03	6	840	10	1.27	<2	5	155
E443827		<10	1	0.19	20	0.76	163	753	0.03	6	840	12	1.28	2	5	144
E443828		<10	<1	0.18	10	1.82	372	5	0.02	4	650	21	2.50	21	4	272
E443829		<10	<1	0.27	20	0.94	152	4	0.05	6	900	60	1.54	<2	6	116
E443830		<10	1	0.01	<10	0.42	79	1	0.01	<1	60	<2	0.32	<2	<1	77
E443831		10	<1	0.48	30	1.19	136	32	0.12	7	1040	21	1.37	<2	7	103
E443832		10	<1	0.32	30	1.10	128	1	0.08	7	980	4	1.28	<2	7	86
E443833		<10	<1	0.31	20	0.97	148	16	0.06	7	970	4	2.13	<2	7	127
E443834		10	<1	0.61	30	1.06	136	2	0.14	6	900	2	0.88	<2	7	95
E443835		10	<1	0.64	30	1.12	159	1	0.15	7	930	3	0.90	<2	7	86
E443836		10	<1	0.30	20	0.80	101	1	0.09	5	710	2	0.88	<2	5	81
E443837		10	<1	0.37	20	1.02	123	23	0.12	6	830	3	1.02	<2	6	83
E443838		10	<1	0.44	20	1.05	154	1	0.10	7	860	3	0.96	<2	6	74
E443839		10	<1	0.48	20	0.87	152	11	0.14	6	750	<2	0.82	<2	6	104
E443840		<10	<1	0.28	<10	0.54	702	237	0.05	19	670	69	2.11	<2	2	53
E443841		10	<1	0.51	20	0.89	203	33	0.08	6	830	3	0.95	<2	6	98
E443842		10	<1	0.42	20	0.98	217	6	0.09	6	840	4	0.77	<2	7	101
E443843		10	<1	0.57	30	0.96	186	1	0.11	7	870	3	0.66	<2	7	92
E443844		<10	<1	0.25	30	0.75	174	<1	0.06	6	840	11	1.02	3	7	143
E443845		<10	<1	0.19	20	0.64	158	3	0.04	6	770	12	1.47	4	6	139
E443846		<10	<1	0.27	20	0.78	162	5	0.05	7	880	4	1.35	2	7	132
E443847		<10	<1	0.31	30	0.81	156	2	0.07	7	890	2	0.80	<2	7	114
E443848		<10	<1	0.23	20	0.69	158	3	0.05	7	890	19	1.53	2	6	143
E443849		10	<1	0.60	30	0.91	158	1	0.10	6	820	3	0.51	2	6	132
E443850		<10	<1	0.01	<10	0.51	89	<1	<0.01	<1	70	2	<0.01	<2	<1	88

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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SUITE 1100
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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
E443811		<20	<0.01	<10	<10	26	<10	337	
E443812		<20	<0.01	<10	<10	20	<10	308	
E443813		<20	<0.01	<10	<10	16	<10	355	
E443814		<20	<0.01	<10	<10	17	<10	126	
E443815		<20	<0.01	<10	<10	18	<10	234	
E443816		<20	<0.01	<10	<10	17	<10	222	
E443817		<20	<0.01	<10	<10	15	<10	194	
E443818		<20	<0.01	<10	<10	13	<10	72	
E443819		<20	<0.01	<10	<10	24	<10	94	
E443820		<20	0.13	<10	<10	56	30	72	1.350
E443821		<20	0.02	<10	<10	33	<10	397	
E443822		<20	0.01	<10	<10	34	<10	118	
E443823		<20	0.02	<10	<10	49	<10	91	
E443824		<20	0.01	<10	<10	45	<10	73	
E443825		<20	<0.01	<10	<10	30	<10	32	
E443826		20	<0.01	<10	<10	23	<10	66	
E443827		<20	<0.01	<10	<10	22	<10	52	
E443828		<20	<0.01	10	<10	15	<10	57	
E443829		<20	0.01	<10	<10	38	<10	180	
E443830		<20	<0.01	<10	<10	<1	<10	<2	
E443831		20	0.05	<10	<10	63	<10	111	
E443832		20	0.03	<10	<10	60	<10	24	
E443833		<20	0.01	<10	<10	44	<10	22	
E443834		20	0.06	<10	<10	69	<10	15	
E443835		<20	0.09	<10	<10	74	<10	26	
E443836		<20	0.03	<10	<10	48	<10	11	
E443837		<20	0.04	<10	<10	62	<10	15	
E443838		<20	0.05	<10	<10	64	<10	14	
E443839		<20	0.06	<10	<10	65	<10	12	
E443840		<20	0.04	<10	<10	30	<10	418	
E443841		<20	0.09	<10	<10	57	<10	19	
E443842		20	0.06	<10	<10	64	<10	23	
E443843		<20	0.10	<10	<10	65	<10	13	
E443844		20	0.01	<10	<10	33	<10	30	
E443845		<20	<0.01	<10	10	24	<10	20	
E443846		<20	0.01	<10	<10	35	<10	19	
E443847		<20	0.04	<10	<10	50	<10	13	
E443848		20	0.01	<10	<10	34	<10	25	
E443849		20	0.08	<10	<10	58	<10	12	
E443850		<20	<0.01	<10	<10	<1	<10	<2	

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E443851		6.42	1.035	<0.2	1.28	5	<10	110	0.5	14	1.34	<0.5	7	12	145	3.16
E443852		6.47	0.043	<0.2	1.64	10	<10	190	0.5	9	1.27	<0.5	9	13	209	3.22
E443853		6.03	0.036	0.2	1.81	7	<10	170	0.6	11	1.47	<0.5	9	12	213	3.42
E443854		6.52	0.056	0.2	0.59	61	<10	130	1.0	10	2.15	<0.5	8	6	248	3.10
E443855		6.77	0.042	<0.2	0.60	85	<10	140	1.0	2	2.29	<0.5	11	6	241	2.80
E443856		6.85	0.077	0.2	0.42	83	<10	30	0.8	11	2.69	<0.5	7	5	234	2.48
E443857		6.24	0.024	0.2	0.53	18	<10	100	0.9	2	2.19	<0.5	11	5	257	2.89
E443858		6.82	0.086	<0.2	0.54	17	<10	90	0.8	2	1.52	<0.5	9	6	202	3.16
E443859		6.23	0.194	0.2	0.48	62	<10	180	0.8	3	2.41	<0.5	8	4	231	3.02
E443860		0.06	0.334	2.6	1.74	27	10	60	<0.5	<2	0.83	2.1	10	29	2430	4.36
E443861		6.14	0.043	<0.2	1.31	7	<10	170	0.5	3	1.28	<0.5	7	11	123	3.18
E443862		6.69	0.063	<0.2	0.94	14	<10	180	0.6	<2	1.44	<0.5	8	10	129	3.18
E443863		6.65	0.166	0.2	0.96	69	<10	190	<0.5	<2	1.24	1.2	9	10	173	3.26
E443864		6.35	0.395	<0.2	0.70	23	<10	180	0.6	6	1.53	<0.5	8	8	236	3.19
E443865		5.40	0.008	<0.2	0.86	6	<10	140	0.5	<2	1.42	<0.5	8	9	87	3.10
E443866		4.79	0.020	<0.2	0.55	28	<10	140	0.8	<2	1.77	<0.5	7	7	130	2.78
E443867		6.27	0.013	<0.2	0.48	14	<10	110	0.9	3	3.18	<0.5	6	6	98	3.07
E443868		5.88	0.026	0.2	0.48	71	<10	190	0.9	<2	2.13	0.6	10	5	188	3.12
E443869		5.69	0.055	0.7	0.42	15	<10	100	0.7	9	1.59	<0.5	9	6	542	3.00
E443870		0.47	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.09
E443871		6.35	0.014	0.2	0.49	9	<10	90	0.7	3	1.74	<0.5	9	6	246	2.80
E443872		6.64	0.024	0.6	0.47	42	<10	140	0.7	3	2.33	<0.5	11	5	328	2.57
E443873		6.14	0.022	0.5	0.39	16	<10	70	<0.5	5	1.81	<0.5	7	5	337	1.87
E443874		6.31	0.023	0.2	0.39	14	<10	80	<0.5	2	1.77	<0.5	3	5	141	1.64
E443875		6.57	0.017	0.3	0.49	44	<10	140	0.6	3	2.58	0.5	5	5	153	1.78
E443876		6.49	0.149	1.4	0.46	174	<10	140	0.6	12	2.62	0.7	4	4	292	1.59
E443877		6.37	0.023	0.3	0.39	98	<10	90	0.5	4	2.48	0.9	2	4	83	1.72
E443878		6.06	0.018	0.2	0.36	200	<10	40	0.6	3	2.95	0.6	2	4	39	2.30
E443879		6.54	0.044	0.9	0.42	349	<10	40	0.7	3	3.35	1.4	5	4	401	2.91
E443880		0.06	0.710	2.9	1.20	13	10	120	<0.5	2	0.81	<0.5	10	49	7730	2.54
E443881		6.34	0.081	1.2	0.41	633	<10	80	0.6	9	2.91	0.7	8	4	567	2.44
E443882		6.33	0.717	0.8	0.38	25	<10	80	0.5	65	1.59	0.5	5	6	373	1.81
E443883		6.35	0.200	0.4	0.43	217	<10	50	0.5	3	2.42	0.5	5	5	286	2.04
E443884		6.32	1.720	0.6	0.39	1010	<10	60	<0.5	4	1.98	<0.5	5	5	270	1.85
E443885		6.26	0.332	0.6	0.39	54	<10	300	0.5	7	2.14	<0.5	2	4	169	1.77
E443886		7.06	0.055	0.3	0.40	20	<10	360	0.5	3	1.56	<0.5	8	6	204	2.04
E443887		6.19	0.011	<0.2	0.41	35	<10	90	0.6	3	1.70	<0.5	9	5	159	2.79
E443888		6.41	0.077	0.2	0.45	47	<10	110	0.8	2	2.06	1.6	12	5	199	3.42
E443889		4.84	0.019	<0.2	0.54	18	<10	150	1.0	<2	2.04	<0.5	10	5	105	3.02
E443890		0.42	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.13

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443851		10	<1	0.26	30	0.88	158	1	0.07	7	880	2	0.66	<2	6	115
E443852		10	<1	0.49	30	0.93	155	1	0.12	7	850	2	0.86	2	6	110
E443853		10	1	0.61	30	0.94	159	<1	0.14	7	880	5	0.72	<2	7	135
E443854		<10	<1	0.23	20	0.81	212	2	0.04	6	880	5	0.81	2	6	172
E443855		<10	<1	0.26	20	0.77	180	1	0.03	7	870	5	1.08	6	6	195
E443856		<10	<1	0.19	10	0.93	213	27	0.02	4	570	5	1.68	5	6	168
E443857		<10	<1	0.21	10	0.81	159	10	0.03	6	860	5	1.24	6	7	205
E443858		<10	<1	0.20	20	0.67	184	3	0.04	6	840	5	0.94	3	6	147
E443859		<10	<1	0.20	20	0.86	225	133	0.03	6	850	7	1.27	3	6	230
E443860		10	<1	0.30	10	0.56	739	248	0.05	21	700	75	2.18	<2	2	57
E443861		10	<1	0.54	30	0.90	186	2	0.09	6	890	3	0.61	2	7	129
E443862		10	<1	0.33	30	0.86	208	1	0.06	6	890	4	0.59	4	7	137
E443863		<10	<1	0.45	30	0.84	202	1	0.07	6	840	11	0.92	<2	6	103
E443864		<10	<1	0.27	30	0.73	187	<1	0.05	6	870	5	0.83	2	7	142
E443865		<10	<1	0.32	30	0.78	217	<1	0.09	6	870	2	0.55	3	7	133
E443866		<10	<1	0.20	30	0.66	196	1	0.05	6	780	4	0.65	4	6	128
E443867		<10	<1	0.16	20	1.08	265	<1	0.04	6	860	3	0.45	<2	7	177
E443868		<10	<1	0.22	20	0.81	259	<1	0.04	6	860	13	0.99	4	7	178
E443869		<10	<1	0.21	20	0.69	183	2	0.04	6	830	6	1.10	3	6	129
E443870		<10	<1	0.01	<10	0.37	82	<1	<0.01	<1	60	<2	<0.01	3	<1	86
E443871		<10	<1	0.24	20	0.67	177	42	0.04	6	910	5	1.01	2	6	149
E443872		<10	<1	0.24	10	0.78	217	56	0.03	5	850	8	1.36	7	6	163
E443873		<10	<1	0.23	10	0.74	179	221	0.03	5	820	6	0.55	2	4	143
E443874		<10	<1	0.24	20	0.79	229	184	0.03	4	830	4	0.21	<2	4	143
E443875		<10	<1	0.23	10	0.99	289	157	0.02	4	800	10	0.50	3	4	151
E443876		<10	<1	0.22	10	0.98	324	98	0.01	4	760	28	0.48	4	4	152
E443877		<10	<1	0.19	10	0.94	275	134	0.01	6	690	12	0.74	7	4	128
E443878		<10	<1	0.18	10	1.11	352	66	0.02	3	600	12	1.45	9	4	146
E443879		<10	<1	0.21	10	1.27	456	12	0.02	4	600	16	1.88	14	3	154
E443880		<10	<1	0.10	10	0.57	406	385	0.07	33	500	6	0.63	<2	4	40
E443881		<10	<1	0.21	10	1.11	271	21	0.02	4	630	12	1.38	11	3	172
E443882		<10	<1	0.18	10	0.78	206	230	0.02	4	810	12	0.34	5	5	127
E443883		<10	<1	0.20	10	1.03	236	171	0.01	5	740	5	0.64	7	5	147
E443884		<10	<1	0.19	10	0.83	227	299	0.01	5	780	6	0.53	3	5	134
E443885		<10	1	0.19	10	0.89	247	150	0.02	4	780	8	0.59	2	5	152
E443886		<10	<1	0.23	10	0.68	184	68	0.03	5	800	4	0.65	2	5	111
E443887		<10	<1	0.18	20	0.68	157	3	0.03	5	650	5	1.12	6	5	126
E443888		<10	<1	0.19	20	0.83	229	10	0.03	6	910	10	1.25	7	7	159
E443889		<10	<1	0.20	20	0.91	274	1	0.03	7	950	9	0.59	3	9	201
E443890		<10	<1	0.01	<10	0.51	97	<1	<0.01	<1	70	<2	0.04	<2	<1	92

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
E443851		20	0.02	<10	<10	54	<10	13	
E443852		20	0.06	<10	<10	60	<10	16	
E443853		20	0.07	<10	<10	59	<10	16	
E443854		<20	<0.01	<10	<10	32	<10	17	
E443855		20	<0.01	<10	<10	27	<10	9	
E443856		<20	<0.01	<10	<10	22	<10	11	
E443857		<20	<0.01	<10	<10	23	<10	12	
E443858		20	<0.01	<10	<10	29	<10	16	
E443859		<20	<0.01	<10	<10	23	<10	17	
E443860		<20	0.05	<10	<10	32	<10	437	
E443861		<20	0.06	<10	<10	57	10	16	
E443862		20	0.03	<10	<10	48	<10	17	
E443863		20	0.06	<10	<10	53	10	83	
E443864		20	0.02	<10	<10	45	<10	26	
E443865		20	0.04	<10	<10	50	<10	14	
E443866		20	<0.01	<10	10	30	<10	14	
E443867		<20	<0.01	<10	<10	26	<10	14	
E443868		20	<0.01	<10	<10	27	<10	40	
E443869		<20	<0.01	<10	<10	27	<10	25	
E443870		<20	<0.01	<10	<10	<1	<10	<2	
E443871		<20	<0.01	<10	<10	26	<10	15	
E443872		<20	<0.01	<10	10	21	<10	19	
E443873		<20	<0.01	<10	<10	11	<10	25	
E443874		<20	<0.01	<10	10	11	<10	19	
E443875		<20	<0.01	<10	<10	12	<10	34	
E443876		<20	<0.01	<10	<10	11	<10	49	
E443877		<20	<0.01	<10	<10	10	<10	54	
E443878		<20	<0.01	10	<10	9	<10	37	
E443879		<20	<0.01	10	<10	8	<10	86	
E443880		<20	0.11	<10	<10	51	30	59	
E443881		<20	<0.01	<10	<10	6	<10	39	
E443882		<20	<0.01	<10	<10	18	<10	35	
E443883		<20	<0.01	<10	<10	14	<10	29	
E443884		<20	<0.01	<10	10	13	<10	27	
E443885		<20	<0.01	<10	<10	12	<10	25	
E443886		<20	<0.01	<10	<10	18	<10	20	
E443887		20	<0.01	<10	10	23	<10	15	
E443888		<20	<0.01	<10	<10	31	<10	93	
E443889		20	<0.01	<10	<10	31	<10	23	
E443890		<20	<0.01	<10	<10	<1	<10	20	

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E443891		4.77	0.083	0.7	0.42	94	<10	180	0.9	17	2.57	<0.5	9	5	186	3.03
E443892		6.86	0.446	0.2	1.24	<2	<10	200	<0.5	4	1.03	<0.5	13	12	253	3.96
E443893		6.78	0.042	<0.2	1.06	36	<10	210	<0.5	2	1.45	<0.5	10	11	145	3.32
E443894		6.85	0.012	<0.2	0.78	6	<10	160	<0.5	<2	1.14	<0.5	9	11	138	3.03
E443895		6.04	0.058	<0.2	0.43	21	<10	220	0.8	2	2.73	<0.5	10	6	184	3.17
E443896		6.89	0.022	0.2	0.41	82	<10	90	0.7	3	2.11	<0.5	8	5	195	3.76
E443897		7.08	0.018	0.2	0.38	17	<10	50	0.7	6	2.02	<0.5	12	5	252	3.44
E443898		6.76	0.085	<0.2	0.55	23	<10	70	0.6	<2	2.20	<0.5	11	8	227	3.68
E443899		6.24	0.269	<0.2	1.25	4	<10	140	<0.5	10	1.42	<0.5	9	13	153	3.43
E443900		0.06	0.340	2.6	1.80	30	10	70	<0.5	<2	0.87	2.1	11	30	2540	4.55
E443901		6.09	0.023	<0.2	1.27	14	<10	150	0.9	<2	0.89	<0.5	8	9	128	3.51
E443902		6.54	0.032	0.2	0.44	87	<10	50	1.0	5	1.81	<0.5	12	3	210	4.36
E443903		6.86	0.019	<0.2	0.46	33	<10	50	1.0	3	3.12	<0.5	10	4	191	4.01
E443904		7.01	0.012	<0.2	0.51	15	<10	70	0.6	2	1.81	<0.5	10	6	174	3.16
E443905		6.40	0.026	<0.2	0.80	9	<10	60	<0.5	<2	1.24	<0.5	11	10	226	3.45
E443906		6.84	0.018	<0.2	0.78	60	<10	120	0.6	<2	1.70	<0.5	7	8	212	3.12
E443907		6.46	0.052	<0.2	1.36	3	<10	150	<0.5	11	1.10	<0.5	10	14	172	3.54
E443908		6.84	0.101	<0.2	1.28	3	<10	140	<0.5	3	1.01	<0.5	10	13	149	3.42
E443909		7.02	0.067	<0.2	0.86	38	<10	130	0.7	3	2.74	<0.5	10	7	153	3.78
E443910		0.27	<0.005	<0.2	0.02	<2	<10	30	<0.5	<2	>25.0	<0.5	<1	1	2	0.12
E443911		6.50	0.031	<0.2	0.56	13	<10	190	0.7	3	1.78	<0.5	9	9	135	3.41
E443912		6.81	0.054	0.8	0.47	270	<10	100	0.8	48	5.08	<0.5	10	5	289	4.70
E443913		7.23	0.056	0.2	0.54	20	<10	90	0.8	4	2.91	<0.5	10	6	226	3.39
E443914		6.09	0.302	0.2	0.37	20	<10	50	0.8	8	2.12	<0.5	11	5	186	3.01
E443915		6.43	0.256	0.2	0.40	25	<10	50	0.8	3	2.91	<0.5	9	5	110	3.13
E443916		6.51	0.324	1.4	0.32	22	<10	110	0.6	1070	1.51	0.5	9	4	820	2.67
E443917		6.70	0.280	0.5	0.65	12	<10	90	0.5	37	1.56	<0.5	10	8	357	3.30
E443918		7.05	0.012	0.2	0.74	11	<10	120	0.6	4	1.40	<0.5	10	8	143	3.27
E443919		6.34	0.015	<0.2	0.48	14	<10	70	0.8	2	2.16	<0.5	9	6	103	2.95
E443920		0.06	0.346	2.6	1.64	28	10	60	<0.5	2	0.80	2.0	9	29	2390	4.32
E443921		6.63	0.007	<0.2	0.76	26	<10	130	0.5	<2	1.29	<0.5	8	10	81	2.82
E443922		6.28	0.041	0.2	0.67	67	<10	100	0.6	2	2.23	<0.5	9	8	147	3.12
E443923		6.85	0.081	0.2	1.41	2	<10	160	<0.5	7	1.12	<0.5	11	14	182	3.61
E443924		6.84	0.017	<0.2	1.53	3	<10	160	<0.5	<2	1.20	<0.5	11	14	177	3.99
E443925		5.81	0.047	0.3	0.54	157	<10	40	0.7	3	1.97	<0.5	12	6	230	3.60
E443926		4.12	<0.005	<0.2	1.02	109	<10	250	<0.5	2	1.06	<0.5	8	12	78	2.78
E443927		7.36	0.006	0.2	1.02	66	<10	260	0.5	<2	1.00	<0.5	13	11	138	3.47
E443928		6.77	0.018	<0.2	0.92	24	<10	250	0.5	<2	1.47	<0.5	10	10	138	3.46
E443929		6.74	0.011	<0.2	1.17	5	<10	270	<0.5	<2	1.25	<0.5	9	13	100	3.12
E443930		0.25	<0.005	<0.2	0.03	2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.10

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443891		<10	<1	0.21	10	0.96	240	24	0.03	5	860	39	1.47	4	7	230
E443892		10	<1	0.55	30	1.11	208	1	0.08	8	940	3	1.03	4	8	95
E443893		10	<1	0.44	20	0.92	246	8	0.09	6	930	5	0.79	<2	6	96
E443894		<10	<1	0.34	30	0.79	189	3	0.07	7	840	3	0.86	<2	7	83
E443895		<10	<1	0.18	20	1.00	241	1	0.04	7	840	8	0.80	3	6	207
E443896		<10	<1	0.18	20	0.85	260	2	0.05	6	810	4	1.52	9	6	141
E443897		<10	<1	0.17	20	0.79	210	5	0.04	7	920	5	1.13	<2	7	148
E443898		<10	<1	0.19	30	1.00	213	1	0.05	7	920	4	1.04	2	7	139
E443899		10	<1	0.56	30	1.02	254	1	0.09	7	940	3	0.58	2	8	89
E443900		10	<1	0.31	10	0.59	770	260	0.05	22	730	77	2.28	4	2	59
E443901		10	<1	0.38	30	0.75	157	3	0.07	7	1030	4	0.64	<2	7	109
E443902		<10	<1	0.21	10	0.60	161	1	0.04	7	810	6	3.64	8	4	187
E443903		<10	<1	0.21	20	1.06	227	4	0.04	6	760	4	1.95	4	5	236
E443904		<10	<1	0.18	20	0.77	180	5	0.05	5	790	5	0.90	3	6	114
E443905		10	<1	0.25	30	0.82	166	3	0.05	7	830	3	1.11	<2	6	83
E443906		<10	<1	0.39	20	0.83	206	16	0.06	6	910	5	0.88	2	7	117
E443907		10	<1	0.58	20	1.06	188	3	0.09	7	880	2	0.70	<2	7	88
E443908		10	<1	0.63	20	1.05	189	8	0.07	7	910	3	0.66	<2	7	68
E443909		<10	<1	0.49	20	1.38	281	<1	0.05	6	920	4	0.83	8	8	161
E443910		<10	<1	0.01	<10	0.83	101	<1	<0.01	<1	60	<2	0.02	<2	<1	95
E443911		<10	<1	0.23	30	0.86	250	10	0.05	7	930	6	0.66	4	7	127
E443912		<10	1	0.19	20	2.15	560	24	0.03	6	830	28	2.06	17	7	201
E443913		<10	<1	0.21	20	1.20	252	4	0.05	7	940	6	0.86	4	7	187
E443914		<10	<1	0.12	20	0.79	244	1	0.02	6	900	7	0.72	2	7	125
E443915		<10	<1	0.14	20	1.15	334	<1	0.02	6	940	8	0.40	4	7	137
E443916		<10	<1	0.18	20	0.56	215	7	0.03	6	750	27	0.92	5	5	115
E443917		<10	<1	0.24	20	0.81	219	13	0.05	6	900	5	0.79	4	7	97
E443918		<10	<1	0.28	20	0.77	249	1	0.04	7	920	5	0.65	<2	6	105
E443919		<10	<1	0.18	20	0.82	335	15	0.04	6	930	5	0.42	<2	6	128
E443920		<10	<1	0.27	<10	0.54	707	225	0.05	20	680	70	2.09	3	2	53
E443921		<10	<1	0.38	20	0.65	262	6	0.06	6	910	3	0.39	<2	6	96
E443922		<10	<1	0.28	20	0.95	280	1	0.04	6	860	3	0.62	2	6	111
E443923		10	<1	0.72	20	1.07	239	6	0.09	7	1010	2	0.75	<2	7	55
E443924		10	<1	0.77	20	1.21	229	1	0.09	7	1080	<2	0.81	<2	8	64
E443925		<10	<1	0.18	20	0.74	210	13	0.04	6	920	4	1.17	2	6	110
E443926		<10	<1	0.53	20	0.75	240	28	0.09	5	800	3	0.42	<2	5	63
E443927		<10	<1	0.52	20	0.79	268	1	0.07	7	940	3	0.66	<2	6	78
E443928		<10	<1	0.42	30	0.85	369	2	0.07	7	940	4	0.48	<2	7	106
E443929		<10	<1	0.57	20	0.91	277	6	0.08	6	920	3	0.43	<2	6	71
E443930		<10	<1	0.01	<10	0.44	84	<1	<0.01	<1	70	<2	<0.01	<2	<1	87

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
E443891		<20	<0.01	<10	<10	23	<10	26	
E443892		<20	0.09	<10	<10	72	<10	20	
E443893		20	0.09	<10	<10	62	<10	17	
E443894		20	0.06	<10	10	52	<10	15	
E443895		<20	<0.01	<10	<10	29	<10	22	
E443896		<20	<0.01	10	<10	33	<10	13	
E443897		<20	<0.01	<10	<10	28	<10	19	
E443898		<20	0.01	<10	<10	44	<10	18	
E443899		20	0.10	<10	<10	74	<10	18	
E443900		<20	0.05	<10	<10	33	<10	458	
E443901		20	0.05	<10	<10	57	<10	16	
E443902		20	<0.01	10	<10	16	<10	13	
E443903		<20	<0.01	<10	<10	22	<10	15	
E443904		20	0.01	<10	10	34	<10	14	
E443905		20	0.02	<10	<10	51	<10	18	
E443906		<20	0.05	<10	<10	48	<10	18	
E443907		20	0.10	<10	<10	77	40	15	
E443908		20	0.12	<10	10	78	10	16	
E443909		<20	0.05	<10	<10	53	<10	21	
E443910		<20	<0.01	<10	<10	1	<10	<2	
E443911		20	0.02	<10	<10	45	<10	20	
E443912		<20	<0.01	10	<10	33	<10	21	
E443913		<20	0.01	<10	<10	34	<10	20	
E443914		<20	<0.01	<10	<10	30	<10	22	
E443915		20	<0.01	<10	<10	30	<10	29	
E443916		20	<0.01	<10	<10	15	<10	39	
E443917		<20	0.02	<10	<10	48	<10	23	
E443918		20	0.04	<10	<10	50	<10	20	
E443919		20	0.01	<10	<10	38	<10	25	
E443920		<20	0.04	<10	<10	30	<10	418	
E443921		20	0.08	<10	<10	54	<10	19	
E443922		<20	0.04	<10	<10	46	<10	20	
E443923		<20	0.17	<10	<10	87	<10	18	
E443924		<20	0.17	<10	<10	97	<10	19	
E443925		<20	0.01	<10	<10	39	<10	18	
E443926		20	0.13	<10	10	60	<10	16	
E443927		20	0.12	<10	<10	69	<10	20	
E443928		<20	0.09	<10	<10	65	<10	25	
E443929		<20	0.14	<10	<10	73	<10	19	
E443930		<20	<0.01	<10	<10	1	<10	2	

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
E443931		6.69	0.005	<0.2	1.06	3	<10	220	<0.5	<2	1.36	<0.5	8	11	52	2.82
E443932		6.87	0.005	<0.2	1.32	9	<10	200	<0.5	<2	1.44	<0.5	9	13	59	3.10
E443933		7.17	0.012	<0.2	1.26	6	<10	260	<0.5	<2	0.98	<0.5	8	13	104	3.01
E443934		6.92	0.005	<0.2	1.34	6	<10	230	<0.5	<2	1.46	<0.5	9	12	74	3.35
E443935		6.99	0.126	0.3	0.98	35	<10	200	<0.5	6	1.56	<0.5	10	11	209	3.35
E443936		6.64	0.015	0.2	1.23	4	<10	210	<0.5	3	1.23	<0.5	8	13	133	2.96
E443937		6.59	0.008	<0.2	1.21	8	<10	250	<0.5	<2	1.16	<0.5	8	13	74	2.98
E443938		6.91	0.006	<0.2	1.37	<2	<10	220	<0.5	2	1.31	<0.5	9	15	83	3.18
E443939		6.58	0.060	<0.2	1.23	3	<10	130	<0.5	<2	1.14	<0.5	7	13	110	3.12
E443940		0.06	0.304	2.5	1.65	28	10	60	<0.5	<2	0.81	2.0	10	29	2440	4.42

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
E443931		<10	<1	0.48	20	0.82	295	1	0.07	5	910	4	0.36	<2	5	70
E443932		<10	<1	0.56	20	0.93	322	10	0.09	7	990	2	0.35	<2	6	81
E443933		10	<1	0.69	20	0.87	214	1	0.09	5	860	2	0.56	<2	5	44
E443934		10	<1	0.44	20	0.97	319	1	0.08	6	910	4	0.49	2	7	95
E443935		<10	<1	0.51	20	1.01	247	1	0.06	7	960	5	0.79	2	6	81
E443936		10	<1	0.54	20	0.89	260	3	0.08	6	850	3	0.51	2	6	58
E443937		10	<1	0.54	20	0.86	281	1	0.08	6	910	3	0.49	2	5	64
E443938		10	<1	0.67	20	0.97	275	38	0.11	7	980	2	0.45	<2	6	69
E443939		10	<1	0.69	20	0.98	210	3	0.08	6	880	3	0.63	<2	6	50
E443940		<10	<1	0.27	<10	0.55	726	228	0.05	20	700	71	2.15	<2	2	53

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
E443931		<20	0.13	<10	<10	65	<10	19	
E443932		<20	0.14	<10	<10	78	10	20	
E443933		<20	0.16	<10	<10	73	<10	17	
E443934		<20	0.11	<10	<10	77	20	21	
E443935		<20	0.11	<10	<10	66	10	22	
E443936		20	0.13	<10	10	70	20	19	
E443937		<20	0.14	<10	<10	73	10	19	
E443938		<20	0.17	<10	<10	80	<10	19	
E443939		<20	0.16	<10	10	77	100	16	
E443940		<20	0.04	<10	<10	31	<10	426	

Comments: **Corrected copy for Au- AA23 on samples E443774 to E443819**

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To: TRIUMPH GOLD CORP.
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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164166

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au- AA23	Cu- OG46	ME- ICP41	ME- OG46

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164169

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 155 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I026743		4.51	0.259		2.0	0.39	26	<10	350	0.6	8	0.88	<0.5	8	5	1045
I026744		4.34	>10.0	13.50	0.8	0.22	272	<10	110	<0.5	37	1.09	0.6	6	4	124
I026745		4.34	0.214		1.7	0.47	28	<10	110	0.5	3	1.13	0.5	6	7	902
I026746		4.45	0.075		0.6	0.23	27	<10	70	<0.5	5	0.77	0.5	3	6	218
I026747		4.26	0.061		1.5	0.20	236	<10	60	<0.5	20	0.94	4.8	4	5	425
I026748		4.39	0.060		1.5	0.26	182	<10	70	<0.5	50	1.07	2.2	3	3	148
I026749		4.14	0.072		0.9	0.25	17	<10	70	<0.5	3	1.11	0.6	4	6	288
I026750		0.27	<0.005		<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2
I026751		4.26	0.164		1.2	0.30	41	<10	70	<0.5	5	0.84	0.9	12	6	553
I026752		3.04	0.491		16.6	0.22	1405	<10	100	<0.5	13	0.75	2.6	11	5	3910
I026753		3.10	1.910		45.2	0.23	5690	<10	70	<0.5	113	1.01	8.7	29	4	>10000
I026754		2.94	1.345		20.3	0.27	4750	<10	120	<0.5	8	1.38	9.2	16	4	5260
I026755		4.53	0.045		0.5	0.34	15	<10	100	0.6	13	1.09	<0.5	3	5	178
I026756		4.56	0.020		0.5	0.27	147	<10	80	<0.5	14	0.88	0.7	8	6	184
I026757		4.05	0.483		4.1	0.36	19	<10	80	<0.5	4	0.94	1.0	9	5	2080
I026758		4.22	0.172		1.4	0.28	19	<10	80	<0.5	3	0.97	<0.5	12	5	810
I026759		4.59	0.086		0.5	0.29	22	<10	210	0.5	14	1.42	<0.5	11	4	231
I026760		0.06	0.359		2.7	1.63	27	<10	60	<0.5	2	0.81	2.2	11	29	2440
I026761		4.50	0.057		0.8	0.31	47	<10	120	0.7	2	2.68	<0.5	7	5	300
I026762		4.70	0.052		0.5	0.33	79	<10	110	0.7	<2	1.54	<0.5	11	4	312
I026763		4.41	3.14		1.8	0.39	37	<10	100	0.6	33	1.07	<0.5	8	5	1135
I026764		4.44	0.107		0.7	0.38	15	<10	110	<0.5	2	0.75	<0.5	8	7	436
I026765		4.16	0.087		0.6	0.34	111	<10	100	0.6	<2	1.75	<0.5	11	4	287
I026766		4.38	0.140		1.1	0.32	97	<10	100	0.6	2	1.24	<0.5	12	5	671
I026767		4.49	0.136		1.8	0.58	25	<10	100	<0.5	<2	0.93	<0.5	6	7	1060
I026768		4.54	0.026		0.2	0.73	26	<10	90	<0.5	<2	0.92	<0.5	6	9	112
I026769		4.30	0.022		0.4	0.65	87	<10	80	<0.5	3	0.82	<0.5	5	8	278
I026770		0.36	<0.005		<0.2	0.02	<2	10	20	<0.5	<2	>25.0	<0.5	<1	1	3
I026771		4.26	0.056		0.5	0.57	54	<10	130	0.8	<2	1.82	<0.5	5	4	333
I026772		4.44	0.027		0.2	1.33	35	<10	80	0.7	<2	1.07	<0.5	4	9	154
I026773		4.72	0.020		0.2	1.82	20	<10	110	0.8	2	1.05	<0.5	3	11	189
I026774		4.51	0.034		0.3	1.46	23	<10	100	0.7	2	1.32	<0.5	5	10	244
I026775		4.51	0.065		0.6	0.88	17	<10	70	<0.5	<2	1.12	<0.5	9	8	432
I026776		4.69	0.059		0.4	0.71	37	<10	70	0.6	3	1.12	<0.5	8	7	281
I026777		4.49	0.059		0.7	0.56	67	<10	50	0.5	5	1.48	<0.5	7	6	430
I026778		4.70	0.111		1.0	0.61	125	<10	70	0.6	2	1.12	<0.5	11	6	650
I026779		4.06	0.018		0.3	0.96	18	<10	60	0.6	2	0.73	<0.5	6	7	210
I026780		0.06	0.328		2.5	1.63	27	10	60	<0.5	<2	0.83	2.1	10	29	2520
I026781		4.49	0.036		0.3	0.86	12	<10	70	<0.5	5	0.66	<0.5	7	10	253
I026782		4.45	0.017		<0.2	0.76	15	<10	70	<0.5	2	0.85	<0.5	5	9	171

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1
I026743		2.01	<10	<1	0.20	30	0.48	138	130	0.02	5	670	9	0.48	5	4
I026744		3.01	<10	1	0.17	10	0.74	428	163	0.02	2	670	18	1.56	8	4
I026745		1.84	<10	<1	0.26	30	0.61	191	110	0.05	4	640	12	0.34	6	4
I026746		1.71	<10	<1	0.17	20	0.52	280	185	0.03	3	600	20	0.15	<2	3
I026747		2.03	<10	<1	0.14	20	0.64	496	252	0.02	2	550	74	0.19	7	3
I026748		1.96	<10	<1	0.15	10	0.67	436	332	0.01	2	640	116	0.15	8	3
I026749		2.22	<10	<1	0.15	20	0.80	458	246	0.02	3	640	60	0.12	7	4
I026750		0.09	<10	<1	<0.01	<10	0.42	101	1	0.01	<1	70	<2	<0.01	<2	<1
I026751		2.29	<10	<1	0.20	20	0.61	285	134	0.03	5	580	25	0.42	3	3
I026752		2.41	<10	<1	0.16	10	0.42	268	319	0.02	5	540	68	1.40	53	3
I026753		4.49	<10	1	0.20	<10	0.54	362	233	0.01	11	490	352	3.42	159	3
I026754		3.02	<10	1	0.21	10	0.66	313	146	0.01	7	580	242	1.96	105	3
I026755		1.73	<10	<1	0.20	20	0.55	204	184	0.02	3	610	12	0.08	2	4
I026756		2.14	<10	<1	0.19	20	0.55	301	46	0.01	3	560	32	0.29	3	3
I026757		2.05	<10	<1	0.19	30	0.51	152	210	0.03	5	580	14	0.56	2	3
I026758		2.44	<10	<1	0.19	20	0.55	133	65	0.03	4	550	8	0.76	2	3
I026759		1.98	<10	<1	0.18	20	0.58	141	31	0.02	4	540	11	0.52	2	3
I026760		4.41	<10	<1	0.28	<10	0.55	741	240	0.05	21	700	72	2.15	<2	2
I026761		2.36	<10	<1	0.19	10	1.15	264	43	0.01	4	450	17	1.57	5	3
I026762		2.68	<10	<1	0.16	20	0.70	103	12	0.02	4	560	8	1.20	2	4
I026763		2.26	<10	<1	0.16	20	0.53	87	106	0.03	5	580	7	0.79	<2	4
I026764		2.20	<10	<1	0.20	20	0.47	82	28	0.06	5	540	6	0.76	<2	4
I026765		2.39	<10	<1	0.14	20	0.75	104	39	0.02	4	570	11	0.90	<2	4
I026766		2.19	<10	<1	0.16	20	0.56	83	54	0.03	4	540	6	0.86	<2	4
I026767		1.95	<10	<1	0.31	20	0.55	77	63	0.07	4	560	5	0.60	<2	4
I026768		1.76	<10	<1	0.33	20	0.61	76	3	0.07	3	560	5	0.45	<2	4
I026769		2.10	<10	<1	0.27	20	0.53	73	5	0.05	4	590	4	0.73	<2	4
I026770		0.07	<10	1	0.01	<10	0.38	75	<1	0.01	<1	70	<2	0.01	<2	<1
I026771		2.00	<10	<1	0.15	20	0.69	94	12	0.02	3	610	5	0.58	<2	4
I026772		1.83	<10	<1	0.38	20	0.69	74	44	0.14	3	590	3	0.23	<2	4
I026773		1.81	10	<1	0.59	20	0.95	78	27	0.17	3	580	3	0.15	<2	5
I026774		1.78	10	<1	0.39	20	0.78	81	31	0.16	3	570	3	0.27	<2	4
I026775		2.13	<10	<1	0.23	30	0.61	79	21	0.09	4	580	4	0.75	<2	4
I026776		2.04	<10	<1	0.21	20	0.60	86	20	0.07	3	590	3	0.57	<2	4
I026777		2.34	<10	<1	0.11	30	0.67	99	53	0.04	3	630	4	0.66	<2	4
I026778		2.59	<10	<1	0.12	30	0.54	79	48	0.04	3	580	7	0.98	<2	3
I026779		2.55	<10	<1	0.14	20	0.59	71	14	0.05	3	580	5	0.88	<2	3
I026780		4.43	<10	<1	0.29	<10	0.56	733	231	0.06	20	710	72	2.20	<2	2
I026781		2.31	10	<1	0.23	20	0.60	75	6	0.07	3	500	4	0.79	<2	3
I026782		2.30	10	<1	0.20	30	0.56	77	1	0.06	3	560	4	0.68	<2	3

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method Analyte Units LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I026743		94	20	0.01	<10	<10	19	<10	31	
I026744		112	20	<0.01	<10	10	10	10	54	
I026745		115	20	0.01	<10	<10	19	10	41	
I026746		73	20	<0.01	<10	10	13	10	42	
I026747		95	20	<0.01	<10	10	9	70	319	
I026748		102	20	<0.01	<10	10	9	10	160	
I026749		113	20	<0.01	<10	10	13	10	58	
I026750		86	<20	<0.01	<10	<10	<1	<10	2	
I026751		81	20	<0.01	<10	10	18	20	71	
I026752		74	20	<0.01	<10	10	9	160	172	
I026753		114	<20	<0.01	<10	10	7	550	584	1.590
I026754		131	20	<0.01	<10	10	11	840	596	
I026755		102	20	<0.01	<10	10	16	10	31	
I026756		83	20	<0.01	<10	10	12	30	55	
I026757		72	20	0.01	<10	<10	18	10	72	
I026758		92	20	<0.01	<10	10	14	<10	32	
I026759		146	20	<0.01	<10	10	10	<10	23	
I026760		54	<20	0.04	<10	<10	31	<10	426	
I026761		230	20	<0.01	<10	10	13	40	30	
I026762		141	20	<0.01	<10	10	16	30	16	
I026763		91	20	<0.01	<10	10	19	<10	24	
I026764		61	20	0.01	<10	10	21	<10	15	
I026765		129	20	<0.01	<10	10	13	<10	18	
I026766		115	20	<0.01	<10	10	14	<10	20	
I026767		68	20	0.02	<10	10	28	<10	24	
I026768		65	20	0.03	<10	10	36	<10	14	
I026769		62	20	0.02	<10	<10	33	<10	14	
I026770		88	<20	<0.01	<10	<10	<1	<10	<2	
I026771		129	20	<0.01	<10	10	12	<10	16	
I026772		84	20	0.03	<10	10	35	<10	15	
I026773		98	20	0.05	<10	10	45	<10	15	
I026774		96	20	0.03	<10	<10	37	<10	15	
I026775		79	20	0.02	<10	10	34	<10	15	
I026776		79	20	0.01	<10	10	30	<10	14	
I026777		82	20	<0.01	<10	10	30	<10	16	
I026778		100	20	<0.01	<10	10	26	<10	20	
I026779		78	20	0.01	<10	10	33	<10	12	
I026780		53	<20	0.04	<10	<10	31	<10	433	
I026781		48	20	0.02	<10	10	35	<10	13	
I026782		46	20	0.02	<10	10	37	<10	11	

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I026783		4.35	0.010		<0.2	0.82	13	<10	70	<0.5	6	0.96	<0.5	6	10	182
I026784		4.74	0.040		0.4	0.43	85	<10	50	<0.5	2	1.22	<0.5	7	7	311
I026785		4.26	0.008		0.2	0.73	10	<10	80	<0.5	<2	0.85	<0.5	5	10	168
I026786		4.66	0.038		0.4	0.77	12	<10	60	<0.5	2	0.93	<0.5	6	9	294
I026787		4.47	0.224		1.4	0.61	14	<10	50	<0.5	3	0.90	<0.5	6	8	878
I026788		4.40	0.130		2.7	0.48	23	<10	60	<0.5	2	1.09	<0.5	9	7	878
I026789		4.42	0.062		0.7	0.41	149	<10	50	0.6	3	1.19	<0.5	7	4	400
I026790		0.34	<0.005		<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	4
I026791		4.16	0.064		0.7	0.35	179	<10	50	0.6	4	1.60	<0.5	10	4	462
I026792		4.50	0.109		0.9	0.55	67	<10	120	0.9	3	2.45	<0.5	8	2	678
I026793		4.76	0.025		0.4	0.38	83	<10	250	0.9	2	3.63	<0.5	7	2	149
I026794		4.58	0.089		0.8	0.36	192	<10	110	0.9	3	4.35	<0.5	8	3	408
I026795		4.88	0.051		0.7	0.51	63	<10	70	0.9	4	2.03	<0.5	10	4	444
I026796		4.31	0.100		1.0	0.35	288	<10	80	0.9	5	4.34	<0.5	11	4	437
I026797		5.00	0.033		0.5	0.51	40	<10	40	0.8	3	1.46	<0.5	7	5	304
I026798		4.06	0.055		0.8	0.85	31	<10	50	0.5	3	1.23	<0.5	6	7	471
I026799		4.25	0.068		0.7	0.62	25	<10	40	<0.5	5	0.67	<0.5	7	9	441
I026800		0.06	0.343		2.5	1.56	27	10	60	<0.5	2	0.75	2.1	10	28	2370
I026801		4.05	0.048		0.3	0.56	48	<10	90	<0.5	3	0.78	<0.5	9	8	223
I026802		4.00	0.097		0.2	0.57	18	<10	90	<0.5	7	0.58	<0.5	6	11	138
I026803		3.92	0.048		0.2	0.45	65	<10	50	<0.5	2	0.90	<0.5	5	7	169
I026804		4.21	1.160		0.3	0.46	65	<10	40	0.5	44	0.80	<0.5	4	8	215
I026805		4.07	0.047		0.2	0.56	49	<10	60	<0.5	3	0.94	<0.5	5	9	147
I026806		3.97	0.039		0.2	0.67	8	<10	60	<0.5	3	0.74	<0.5	5	9	134
I026807		4.13	0.220		0.7	0.79	13	<10	100	<0.5	5	0.75	<0.5	10	11	431
I026808		4.01	0.076		0.4	0.61	60	<10	50	<0.5	3	0.92	<0.5	8	8	276
I026809		4.36	0.115		0.4	0.55	71	<10	50	0.5	3	1.25	<0.5	6	8	251
I026810		0.28	<0.005		<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	2
I026811		3.72	0.100		0.4	0.52	182	<10	50	0.7	4	0.80	<0.5	8	5	245
I026812		2.24	0.177		0.5	0.37	231	<10	70	0.9	13	2.35	<0.5	7	3	267
I026813		4.78	0.285		1.1	0.37	200	<10	50	0.7	7	1.59	<0.5	6	5	631
I026814		3.82	0.286		0.7	0.80	51	<10	70	<0.5	<2	0.89	<0.5	8	9	432
I026815		4.13	0.060		0.8	0.79	45	<10	60	<0.5	3	0.96	<0.5	6	10	243
I026816		4.02	0.116		0.4	0.90	6	<10	60	<0.5	4	0.78	<0.5	10	10	267
I026817		4.65	0.078		0.3	0.93	8	<10	90	<0.5	2	0.72	<0.5	6	13	171
I026818		4.24	0.102		0.5	0.94	10	<10	50	<0.5	3	1.05	<0.5	9	9	292
I026819		3.99	0.123		0.6	0.86	10	<10	50	<0.5	3	0.92	<0.5	5	13	359
I026820		0.06	0.808		3.0	1.17	13	10	120	<0.5	2	0.75	<0.5	10	48	7970
I026821		4.61	0.083		0.3	0.95	6	<10	60	<0.5	3	0.81	<0.5	7	10	214
I026822		3.87	0.048		0.3	0.97	18	<10	50	<0.5	3	1.00	<0.5	8	11	179

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I026783		2.66	10	1	0.20	20	0.64	90	2	0.05	5	590	6	0.75	2	4
I026784		2.44	<10	<1	0.14	20	0.45	81	25	0.03	4	560	5	0.75	2	4
I026785		2.54	<10	<1	0.23	20	0.58	83	6	0.05	4	590	6	0.79	2	4
I026786		2.38	<10	<1	0.18	20	0.62	82	60	0.04	4	600	5	0.76	<2	4
I026787		1.91	<10	1	0.13	20	0.45	71	58	0.03	4	560	7	0.69	<2	3
I026788		2.33	<10	<1	0.14	20	0.37	74	56	0.04	4	600	6	0.91	2	3
I026789		2.10	<10	1	0.12	20	0.41	74	33	0.02	4	570	6	0.76	<2	4
I026790		0.07	<10	1	<0.01	<10	0.49	83	<1	<0.01	<1	60	<2	0.01	3	<1
I026791		2.11	<10	1	0.16	20	0.53	78	42	0.02	4	660	7	0.86	4	3
I026792		1.77	<10	<1	0.22	10	0.78	101	69	0.02	3	680	9	0.84	3	2
I026793		2.22	<10	1	0.18	10	1.35	151	43	0.02	4	590	9	0.82	2	2
I026794		3.06	<10	<1	0.17	10	1.73	253	104	0.02	3	480	11	1.80	3	4
I026795		2.99	<10	<1	0.18	30	0.69	104	7	0.02	5	710	7	1.80	<2	5
I026796		3.49	<10	1	0.19	30	1.74	200	51	0.02	4	580	10	2.57	5	5
I026797		2.06	<10	<1	0.16	20	0.47	75	36	0.02	3	500	8	0.84	<2	3
I026798		1.89	<10	<1	0.22	20	0.50	72	35	0.06	3	400	5	0.51	2	3
I026799		2.00	<10	1	0.13	20	0.47	67	18	0.04	4	440	8	0.74	<2	2
I026800		4.24	<10	<1	0.26	<10	0.52	701	220	0.05	20	690	70	2.05	<2	2
I026801		2.18	<10	<1	0.20	20	0.49	77	18	0.04	3	420	8	0.86	<2	3
I026802		2.03	<10	<1	0.25	20	0.44	73	12	0.05	3	390	8	0.65	<2	3
I026803		1.95	<10	<1	0.13	10	0.40	75	14	0.03	3	390	7	0.53	<2	2
I026804		1.94	<10	<1	0.11	20	0.38	76	3	0.04	4	430	6	0.51	<2	2
I026805		1.80	<10	<1	0.12	20	0.43	78	1	0.03	3	480	6	0.43	<2	3
I026806		1.50	<10	<1	0.12	20	0.45	72	2	0.04	2	450	5	0.30	<2	2
I026807		2.54	<10	<1	0.18	30	0.57	83	13	0.04	5	590	6	0.89	<2	4
I026808		2.19	<10	1	0.13	20	0.43	79	11	0.03	3	520	5	0.65	<2	3
I026809		2.14	<10	<1	0.14	20	0.41	89	38	0.03	4	500	6	0.65	<2	3
I026810		0.08	<10	1	<0.01	<10	0.45	100	<1	<0.01	<1	70	<2	0.01	3	<1
I026811		1.81	<10	<1	0.15	20	0.35	63	6	0.02	3	550	7	0.56	2	2
I026812		2.43	<10	1	0.16	20	0.63	127	78	0.02	4	490	8	0.88	3	2
I026813		2.06	<10	<1	0.15	20	0.45	100	87	0.02	4	510	6	0.64	<2	2
I026814		2.36	<10	<1	0.17	20	0.48	92	59	0.04	4	530	5	0.66	<2	3
I026815		2.39	<10	<1	0.18	20	0.53	94	7	0.05	4	520	6	0.65	2	3
I026816		2.60	10	1	0.19	20	0.60	98	3	0.05	4	540	6	0.84	<2	3
I026817		2.17	10	<1	0.23	20	0.59	93	4	0.07	4	540	4	0.56	<2	4
I026818		2.16	<10	1	0.17	20	0.60	94	33	0.05	4	530	5	0.55	<2	3
I026819		1.92	<10	1	0.15	20	0.53	89	44	0.06	3	560	5	0.44	<2	3
I026820		2.58	<10	1	0.09	<10	0.55	406	398	0.07	32	510	6	0.61	2	4
I026821		2.37	10	<1	0.18	20	0.60	94	8	0.07	3	540	5	0.66	<2	3
I026822		2.45	10	<1	0.11	20	0.61	98	1	0.06	4	570	4	0.65	<2	3

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I026783		46	20	0.03	<10	<10	42	<10	12	
I026784		70	20	0.01	<10	<10	26	<10	14	
I026785		45	20	0.03	<10	<10	39	<10	13	
I026786		52	20	0.02	<10	<10	40	<10	15	
I026787		49	20	0.01	<10	<10	33	10	20	
I026788		57	20	<0.01	<10	<10	27	<10	20	
I026789		78	30	<0.01	<10	<10	16	<10	16	
I026790		93	<20	<0.01	<10	<10	<1	<10	<2	
I026791		100	20	<0.01	<10	10	12	<10	16	
I026792		229	<20	<0.01	<10	<10	7	<10	17	
I026793		203	<20	<0.01	<10	<10	7	<10	25	
I026794		268	<20	<0.01	<10	<10	12	<10	15	
I026795		151	30	<0.01	<10	10	14	<10	16	
I026796		333	30	<0.01	<10	10	18	10	16	
I026797		106	20	<0.01	<10	10	12	10	16	
I026798		67	20	0.01	<10	10	31	<10	18	
I026799		41	30	0.01	<10	10	32	<10	17	
I026800		51	<20	0.04	<10	<10	29	<10	414	
I026801		47	20	0.03	<10	10	28	<10	13	
I026802		37	20	0.03	<10	10	28	<10	12	
I026803		57	20	0.01	<10	10	23	<10	12	
I026804		53	20	<0.01	<10	<10	25	<10	13	
I026805		51	20	0.01	<10	10	28	<10	13	
I026806		43	20	0.01	<10	10	31	10	12	
I026807		43	20	0.02	<10	10	40	<10	16	
I026808		51	20	0.01	<10	10	29	10	14	
I026809		74	20	<0.01	<10	10	24	<10	14	
I026810		99	<20	<0.01	<10	<10	<1	<10	<2	
I026811		94	20	<0.01	<10	10	17	<10	15	
I026812		163	20	<0.01	<10	<10	10	<10	13	
I026813		109	20	<0.01	<10	10	12	<10	19	
I026814		51	20	0.02	<10	10	36	<10	16	
I026815		51	20	0.02	<10	10	35	<10	15	
I026816		40	20	0.03	<10	10	41	<10	16	
I026817		43	20	0.06	<10	10	40	<10	14	
I026818		44	20	0.01	<10	10	37	10	16	
I026819		48	20	0.02	<10	<10	40	<10	16	
I026820		38	<20	0.11	<10	<10	50	30	56	
I026821		50	20	0.02	<10	10	42	<10	14	
I026822		55	20	0.01	<10	<10	42	<10	14	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I026823		4.23	0.167		0.2	0.97	9	<10	50	<0.5	4	0.91	<0.5	6	10	152
I026824		4.01	0.023		<0.2	0.90	8	<10	60	<0.5	2	0.80	<0.5	4	10	153
I026825		4.27	0.033		0.4	0.98	52	<10	50	<0.5	20	1.17	<0.5	4	10	259
I026826		4.55	0.030		0.2	1.12	46	<10	70	0.5	10	0.79	<0.5	4	10	171
I026827		4.19	0.070		0.3	1.07	17	<10	60	<0.5	7	0.97	<0.5	6	10	240
I026828		4.11	0.056		0.6	1.02	152	<10	50	0.6	5	1.07	<0.5	7	10	339
I026829		4.21	0.081		0.5	0.86	253	<10	50	0.6	9	1.00	<0.5	8	8	329
I026830		0.24	0.006		<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2
I026831		4.70	0.066		0.6	0.87	23	<10	50	0.5	6	1.94	<0.5	6	8	398
I026832		3.79	0.075		0.7	0.98	12	<10	60	<0.5	3	0.93	<0.5	6	10	299
I026833		4.33	0.090		0.6	1.46	10	<10	80	0.5	3	1.49	<0.5	6	10	334
I026834		4.27	0.024		0.3	1.14	7	<10	60	<0.5	2	1.02	<0.5	7	10	211
I026835		4.14	0.050		<0.2	1.12	7	<10	70	0.6	<2	1.11	<0.5	5	8	116
I026836		4.08	0.022		<0.2	0.72	10	<10	80	0.8	<2	1.72	<0.5	4	7	78
I026837		4.14	0.034		0.2	0.47	16	<10	60	0.8	3	2.37	<0.5	4	4	183
I026838		4.48	0.119		0.7	0.34	40	<10	50	0.7	4	1.43	<0.5	7	4	428
I026839		3.98	0.046		0.4	0.34	52	<10	50	0.7	<2	2.14	<0.5	6	4	236
I026840		0.06	0.317		2.7	1.68	28	10	60	<0.5	2	0.79	2.1	10	29	2510
I026841		4.49	0.062		0.4	0.50	27	<10	50	0.5	2	1.38	<0.5	6	6	244
I026842		3.56	0.016		0.3	0.38	5	<10	50	0.5	<2	1.13	<0.5	4	6	250
I026843		3.92	0.054		0.3	0.40	6	<10	50	0.5	3	1.10	<0.5	7	7	207
I026844		4.19	0.037		0.2	0.32	18	<10	40	0.5	3	0.96	<0.5	9	6	185
I026845		4.43	0.035		0.2	0.32	148	<10	40	0.5	7	1.07	<0.5	5	6	169
I026846		5.30	0.143		1.0	0.51	202	<10	40	0.8	13	1.80	<0.5	7	4	469
I026847		5.03	<0.005		<0.2	1.05	17	<10	320	<0.5	<2	0.47	<0.5	6	11	56
I026848		8.94	<0.005		<0.2	1.05	6	<10	170	<0.5	<2	0.59	<0.5	8	11	82
I026849		8.64	0.012		<0.2	1.15	10	<10	80	<0.5	2	0.88	<0.5	9	12	140
I026850		0.32	<0.005		<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3
I026851		4.51	0.013		0.2	1.13	13	<10	90	<0.5	<2	0.52	<0.5	14	11	255
I026852		4.88	0.012		<0.2	1.15	11	<10	80	<0.5	<2	0.70	<0.5	11	11	215
I026853		9.63	0.052		<0.2	1.25	15	<10	110	<0.5	4	0.61	<0.5	11	11	235
I026854		5.85	0.021		<0.2	1.05	12	<10	120	<0.5	<2	0.62	<0.5	7	11	119
I026855		8.61	0.015		<0.2	0.90	88	<10	80	<0.5	<2	1.11	<0.5	7	9	102
I026856		7.87	0.050		0.2	1.30	35	<10	70	<0.5	2	0.55	<0.5	5	11	137
I026857		5.91	0.037		0.8	1.29	157	<10	110	0.7	4	0.38	<0.5	8	7	187
I026858		8.24	0.016		0.7	0.96	136	<10	240	<0.5	13	0.50	0.5	7	9	131
I026859		6.15	0.037		<0.2	1.02	12	<10	200	<0.5	<2	0.61	<0.5	7	11	69
I026860		0.06	0.333		2.5	1.56	26	10	60	<0.5	<2	0.76	2.2	9	27	2400
I026861		8.79	0.013		0.2	1.00	7	<10	170	<0.5	2	0.74	<0.5	6	15	112
I026862		8.52	0.053		<0.2	0.91	43	<10	180	<0.5	2	0.71	<0.5	7	10	102

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I026823		2.43	10	1	0.18	20	0.59	100	2	0.07	4	550	4	0.54	<2	3
I026824		2.40	10	<1	0.22	20	0.61	101	8	0.05	3	560	6	0.52	<2	3
I026825		2.37	<10	1	0.15	30	0.61	106	28	0.04	3	600	7	0.48	<2	3
I026826		2.39	10	<1	0.24	20	0.60	88	4	0.05	4	540	3	0.52	<2	3
I026827		2.03	10	1	0.17	20	0.70	95	15	0.07	4	540	5	0.39	<2	3
I026828		2.48	<10	1	0.16	30	0.59	97	33	0.04	5	570	4	0.55	<2	3
I026829		2.35	<10	<1	0.15	20	0.50	80	19	0.03	4	540	6	0.60	3	3
I026830		0.09	<10	1	<0.01	<10	0.32	107	<1	<0.01	<1	80	<2	<0.01	<2	<1
I026831		2.31	<10	1	0.15	20	0.50	111	30	0.04	3	510	3	0.61	<2	3
I026832		1.95	<10	<1	0.19	30	0.56	88	24	0.07	3	510	3	0.40	<2	3
I026833		2.35	10	<1	0.27	20	0.70	116	35	0.12	4	530	5	0.47	<2	3
I026834		2.34	10	1	0.30	30	0.69	95	2	0.09	4	560	4	0.53	<2	4
I026835		1.93	<10	1	0.31	20	0.59	82	1	0.11	4	540	3	0.30	<2	4
I026836		1.80	<10	1	0.26	20	0.58	87	1	0.04	3	430	3	0.17	<2	3
I026837		2.10	<10	<1	0.16	20	0.47	102	5	0.03	5	530	4	0.35	<2	3
I026838		2.04	<10	<1	0.15	20	0.44	68	128	0.03	2	580	7	0.61	<2	3
I026839		2.27	<10	<1	0.14	20	0.75	96	16	0.03	3	530	6	0.58	<2	3
I026840		4.49	<10	<1	0.28	<10	0.55	748	243	0.05	20	690	74	2.16	<2	2
I026841		2.00	<10	1	0.14	20	0.44	91	21	0.04	3	530	5	0.45	<2	3
I026842		1.83	<10	<1	0.13	20	0.39	82	4	0.03	3	490	5	0.40	2	2
I026843		2.26	<10	1	0.11	20	0.41	87	1	0.04	4	600	6	0.62	<2	3
I026844		2.02	<10	<1	0.11	20	0.33	79	1	0.03	3	530	5	0.65	<2	3
I026845		1.97	<10	1	0.11	20	0.34	83	64	0.03	3	510	5	0.54	<2	3
I026846		2.12	<10	1	0.15	20	0.54	91	76	0.03	3	520	7	0.60	<2	3
I026847		2.30	<10	1	0.51	20	0.59	194	3	0.09	5	750	3	0.04	2	3
I026848		2.22	<10	1	0.48	20	0.58	183	5	0.08	5	730	2	0.16	<2	3
I026849		2.69	10	1	0.35	20	0.71	197	1	0.08	4	740	4	0.33	<2	5
I026850		0.13	<10	2	0.01	<10	0.78	101	<1	0.01	<1	100	<2	<0.01	<2	<1
I026851		2.85	10	1	0.41	20	0.85	147	2	0.06	6	710	3	0.58	<2	5
I026852		2.71	10	<1	0.47	20	0.87	142	1	0.07	6	740	3	0.48	<2	5
I026853		2.79	10	1	0.52	20	0.78	152	1	0.10	6	720	2	0.60	2	5
I026854		2.49	10	1	0.42	20	0.74	165	1	0.06	5	700	3	0.20	2	4
I026855		2.67	<10	<1	0.33	20	0.62	232	1	0.04	5	680	6	0.20	<2	4
I026856		2.69	10	<1	0.55	20	0.80	146	1	0.06	5	720	3	0.18	2	5
I026857		3.37	10	<1	0.36	20	0.82	141	1	0.02	6	710	18	0.14	<2	5
I026858		2.99	<10	1	0.44	20	0.56	192	1	0.06	5	720	23	0.10	2	4
I026859		2.36	<10	<1	0.46	20	0.68	179	<1	0.07	5	720	3	0.13	<2	4
I026860		4.27	<10	<1	0.27	<10	0.53	711	226	0.04	20	690	72	2.07	<2	2
I026861		2.41	<10	1	0.46	20	0.68	174	2	0.07	5	680	4	0.31	<2	4
I026862		2.30	<10	<1	0.48	20	0.61	186	1	0.06	5	730	2	0.28	<2	4

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I026823		53	20	0.02	<10	10	43	<10	13	
I026824		47	20	0.03	<10	10	40	<10	13	
I026825		47	20	0.01	<10	10	36	<10	17	
I026826		62	20	0.02	<10	10	43	<10	14	
I026827		53	20	0.01	<10	10	42	<10	17	
I026828		71	20	0.01	<10	10	36	<10	19	
I026829		64	20	<0.01	<10	10	27	<10	17	
I026830		114	<20	<0.01	<10	<10	<1	<10	<2	
I026831		79	20	0.01	<10	10	29	<10	18	
I026832		57	20	0.01	<10	10	37	<10	17	
I026833		75	20	0.02	<10	10	38	10	18	
I026834		58	20	0.03	<10	10	42	<10	16	
I026835		70	20	0.03	<10	10	38	<10	13	
I026836		108	20	0.02	<10	<10	32	<10	14	
I026837		120	20	<0.01	<10	10	18	<10	15	
I026838		94	20	<0.01	<10	10	15	<10	22	
I026839		102	20	<0.01	<10	10	13	<10	16	
I026840		55	<20	0.04	<10	<10	31	<10	422	
I026841		69	20	<0.01	<10	10	22	<10	16	
I026842		59	20	<0.01	<10	10	20	<10	13	
I026843		69	20	<0.01	<10	10	25	<10	14	
I026844		67	20	<0.01	<10	10	19	10	13	
I026845		72	20	<0.01	<10	10	16	10	12	
I026846		112	20	<0.01	<10	10	12	10	16	
I026847		41	<20	0.18	<10	<10	56	<10	18	
I026848		32	<20	0.17	<10	<10	54	<10	16	
I026849		40	<20	0.11	<10	<10	57	<10	17	
I026850		86	<20	<0.01	<10	<10	1	<10	<2	
I026851		27	20	0.14	<10	10	57	10	16	
I026852		28	<20	0.15	<10	10	58	<10	15	
I026853		32	<20	0.16	<10	10	71	<10	16	
I026854		26	<20	0.12	<10	<10	56	10	17	
I026855		36	20	0.06	<10	<10	45	<10	20	
I026856		32	<20	0.09	<10	<10	53	<10	17	
I026857		35	<20	0.05	<10	<10	48	<10	47	
I026858		25	20	0.13	<10	<10	54	10	38	
I026859		27	<20	0.15	<10	<10	56	<10	16	
I026860		52	<20	0.04	<10	<10	30	<10	422	
I026861		28	20	0.13	<10	<10	54	<10	18	
I026862		29	<20	0.12	<10	<10	55	10	16	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
I026863		9.13	0.025		0.2	1.06	8	<10	180	<0.5	<2	0.62	<0.5	7	11	209
I026864		8.66	0.029		0.6	1.01	88	<10	200	<0.5	4	0.88	<0.5	7	10	262
I026865		8.98	0.013		<0.2	1.04	12	<10	210	<0.5	<2	0.90	<0.5	8	12	115
I026866		8.52	0.038		0.2	0.99	114	<10	80	<0.5	2	0.80	<0.5	9	9	193
I026867		9.31	0.012		<0.2	1.03	64	<10	120	<0.5	<2	0.79	<0.5	9	10	173
I026868		8.45	0.007		<0.2	1.02	25	<10	120	<0.5	2	0.89	<0.5	8	11	104
I026869		5.37	0.013		<0.2	1.02	49	<10	90	<0.5	2	0.70	<0.5	10	11	245
I026870		0.32	<0.005		<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4
I026871		5.22	0.030		0.2	1.04	35	<10	170	<0.5	<2	0.77	<0.5	9	9	181
I026872		5.23	0.029		0.2	0.79	76	<10	40	0.5	2	0.96	<0.5	8	7	254
I026873		4.11	0.033		0.5	0.38	380	<10	40	0.5	2	1.78	<0.5	12	5	341
I026874		6.44	0.022		0.7	0.39	289	<10	40	0.5	<2	1.50	<0.5	8	5	259
I026875		4.46	0.059		0.5	0.67	174	<10	40	0.6	<2	1.51	<0.5	9	4	269
I026876		5.02	0.013		0.5	0.63	537	<10	30	0.6	<2	1.72	<0.5	13	4	298
I026877		4.37	0.018		0.5	0.51	549	<10	30	0.5	<2	2.34	<0.5	7	5	271
I026878		5.43	0.061		0.7	0.55	182	<10	30	0.5	<2	1.78	<0.5	7	4	306
I026879		3.09	0.037		0.6	0.47	274	<10	50	0.6	<2	0.90	<0.5	8	5	393
I026880		0.06	0.363		2.7	1.65	27	10	60	<0.5	2	0.80	2.1	9	29	2520
I026881		3.49	0.116		0.3	0.72	174	<10	30	0.7	7	1.59	<0.5	11	4	337
I026882		4.85	0.083		0.2	0.70	153	<10	40	0.8	2	1.42	<0.5	7	5	163
I026883		4.63	0.051		0.6	0.68	262	<10	80	0.7	<2	1.28	<0.5	9	5	270
I026884		5.29	0.027		0.4	0.89	30	<10	90	0.6	2	1.39	<0.5	8	7	201
I026885		4.23	0.059		0.6	0.79	144	<10	60	0.7	2	1.47	<0.5	9	5	299
I026886		4.58	0.021		0.5	0.80	23	<10	60	0.8	<2	1.85	<0.5	9	5	285
I026887		5.35	0.039		0.5	0.68	42	<10	50	0.9	<2	1.45	<0.5	9	5	228
I026888		4.09	0.032		0.3	0.43	24	<10	40	1.0	<2	2.37	<0.5	9	4	222
I026889		1.62	<0.005		<0.2	0.70	279	<10	120	1.7	<2	4.75	<0.5	28	88	94
I026890		0.38	<0.005		<0.2	0.03	3	<10	10	<0.5	<2	>25.0	<0.5	1	1	7
I026891		4.71	0.143		0.6	0.88	48	<10	30	1.1	7	2.52	<0.5	9	4	566
I026892		4.05	0.024		0.3	1.84	67	<10	260	1.1	2	1.96	<0.5	9	7	213
I026893		4.45	0.060		0.3	2.29	32	<10	70	1.6	2	1.51	<0.5	10	7	246
I026894		3.64	0.012		0.3	1.29	141	<10	70	1.0	<2	2.26	<0.5	8	4	106
I026895		5.55	0.009		0.2	0.87	10	<10	80	0.9	2	2.16	<0.5	7	5	64
I026896		4.06	0.012		0.2	0.98	9	<10	170	0.9	<2	1.72	<0.5	7	7	45
I026897		1.91	<0.005		<0.2	1.73	10	<10	130	1.4	<2	1.64	<0.5	7	7	45

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1
I026863		2.46	<10	<1	0.51	20	0.71	173	<1	0.08	4	760	2	0.39	<2	4
I026864		2.55	<10	<1	0.46	20	0.63	198	<1	0.07	5	740	7	0.34	<2	5
I026865		2.61	10	<1	0.54	20	0.71	221	1	0.08	6	800	3	0.37	<2	5
I026866		2.74	10	<1	0.41	20	0.79	187	<1	0.04	5	720	3	0.52	2	5
I026867		2.67	10	1	0.48	20	0.76	177	<1	0.06	5	720	3	0.55	<2	5
I026868		2.66	10	1	0.52	20	0.70	226	<1	0.07	6	750	3	0.35	<2	5
I026869		2.91	10	1	0.58	20	0.81	144	<1	0.06	5	710	4	0.77	<2	5
I026870		0.11	<10	<1	0.01	<10	0.66	88	<1	<0.01	<1	70	<2	0.01	<2	<1
I026871		2.80	10	1	0.48	20	0.74	195	<1	0.06	5	780	3	0.55	<2	4
I026872		2.80	<10	1	0.19	20	0.62	164	<1	0.02	5	730	4	0.72	3	5
I026873		3.20	<10	1	0.08	30	0.67	237	1	<0.01	6	740	4	0.97	4	5
I026874		2.22	<10	1	0.13	30	0.52	177	4	<0.01	4	840	7	0.73	6	3
I026875		2.55	<10	<1	0.13	30	0.55	137	3	<0.01	3	930	5	0.84	4	3
I026876		2.59	<10	1	0.12	40	0.64	156	2	<0.01	4	980	6	0.89	7	3
I026877		2.16	<10	<1	0.10	30	0.83	137	3	<0.01	3	870	6	0.73	14	3
I026878		2.24	<10	1	0.11	30	0.59	133	2	<0.01	3	880	7	0.79	6	2
I026879		1.82	<10	1	0.10	30	0.30	114	2	<0.01	4	820	7	0.68	11	2
I026880		4.46	<10	<1	0.28	<10	0.55	729	236	0.05	21	710	74	2.14	<2	2
I026881		3.59	<10	<1	0.07	30	0.66	239	1	<0.01	5	730	7	0.81	3	6
I026882		2.68	<10	1	0.14	20	0.60	171	1	0.01	5	720	5	0.48	3	5
I026883		2.73	<10	<1	0.15	20	0.60	170	1	0.01	5	710	6	0.79	4	5
I026884		2.92	<10	<1	0.17	20	0.70	184	<1	0.03	6	680	5	0.79	<2	5
I026885		3.07	<10	1	0.17	30	0.72	181	1	0.01	5	730	7	0.77	4	5
I026886		3.23	<10	<1	0.20	30	0.83	214	1	<0.01	5	700	7	0.79	<2	5
I026887		3.03	<10	1	0.12	30	0.68	226	1	0.01	6	740	7	0.77	<2	6
I026888		2.66	<10	1	0.13	20	0.99	228	254	<0.01	5	650	9	0.63	3	5
I026889		3.91	<10	1	0.14	20	1.83	678	10	<0.01	231	1620	12	0.37	3	13
I026890		0.16	<10	<1	0.01	<10	1.27	173	1	<0.01	<1	70	2	0.03	2	<1
I026891		2.81	<10	<1	0.13	20	0.68	258	1	<0.01	6	680	5	0.74	3	4
I026892		2.80	<10	<1	0.21	30	0.69	167	20	<0.01	5	710	5	0.55	<2	5
I026893		3.30	10	<1	0.22	30	0.88	142	1	0.01	7	730	6	0.71	2	5
I026894		2.77	<10	<1	0.10	20	0.67	210	1	<0.01	5	710	19	0.39	2	5
I026895		2.33	<10	1	0.16	20	0.71	347	<1	0.01	5	700	6	0.21	<2	4
I026896		2.52	<10	<1	0.29	30	0.71	351	1	0.02	5	750	4	0.20	<2	5
I026897		3.03	10	<1	0.22	30	0.77	303	<1	0.02	5	770	6	0.19	<2	6

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I026863		30	<20	0.16	<10	<10	58	<10	16	
I026864		36	<20	0.12	<10	<10	56	<10	20	
I026865		36	20	0.14	<10	<10	60	30	19	
I026866		29	20	0.09	<10	10	56	10	19	
I026867		31	20	0.10	<10	<10	56	10	20	
I026868		41	20	0.12	<10	<10	55	20	20	
I026869		31	20	0.11	<10	<10	59	10	17	
I026870		87	<20	<0.01	<10	<10	1	<10	<2	
I026871		32	<20	0.15	<10	<10	64	<10	19	
I026872		42	20	0.03	<10	<10	38	<10	20	
I026873		56	20	<0.01	<10	<10	30	<10	20	
I026874		81	<20	<0.01	<10	<10	12	<10	20	
I026875		83	<20	<0.01	<10	<10	15	<10	18	
I026876		93	<20	<0.01	<10	<10	14	<10	17	
I026877		70	<20	<0.01	<10	<10	16	<10	17	
I026878		52	<20	<0.01	<10	<10	15	<10	19	
I026879		29	<20	<0.01	<10	<10	14	<10	18	
I026880		54	<20	0.04	<10	<10	31	<10	432	
I026881		66	20	<0.01	<10	10	29	<10	19	
I026882		80	20	0.01	<10	10	34	<10	16	
I026883		62	20	0.01	<10	10	29	<10	20	
I026884		83	20	0.02	<10	<10	38	<10	19	
I026885		68	20	0.01	<10	10	32	<10	21	
I026886		81	20	<0.01	<10	10	27	<10	20	
I026887		72	20	<0.01	<10	<10	33	<10	27	
I026888		129	20	<0.01	<10	<10	22	<10	18	
I026889		211	<20	0.02	<10	<10	68	<10	52	
I026890		84	<20	<0.01	<10	<10	1	<10	<2	
I026891		85	20	<0.01	<10	<10	22	<10	17	
I026892		88	20	<0.01	<10	<10	34	<10	15	
I026893		98	20	0.01	<10	<10	44	<10	17	
I026894		106	20	<0.01	<10	<10	29	<10	30	
I026895		96	20	0.01	<10	<10	32	<10	24	
I026896		97	20	0.04	<10	<10	42	<10	24	
I026897		111	20	0.02	<10	10	45	<10	24	

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164169

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Au- GRA21	Cu- OG46	ME- ICP41
ME- OG46			

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164170

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 175 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH17164170

Sample Description / Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
C491351	0.45	0.019	5.3	0.15	37	<10	1010	<0.5	2	0.03	<0.5	<1	11	19	0.92
C491352	1.69	0.181	5.7	0.43	127	<10	440	<0.5	5	0.04	<0.5	<1	9	72	2.03
C491353	1.23	<0.005	<0.2	0.49	3	<10	40	<0.5	<2	0.34	<0.5	1	12	1	0.77
C491354	1.17	0.131	1.4	1.05	1140	<10	230	0.5	<2	0.27	0.6	3	13	60	2.41
C491355	1.85	0.036	2.3	1.77	518	<10	260	0.6	<2	0.23	40.0	18	19	227	3.20
C491356	0.94	0.245	11.7	0.27	171	<10	600	<0.5	3	0.04	<0.5	<1	10	29	0.99
C491357	1.48	0.065	4.7	1.55	39	<10	80	<0.5	<2	0.24	3.6	12	11	1200	3.25
C491358	1.02	0.007	1.2	0.25	112	<10	110	0.6	<2	0.03	<0.5	4	4	6	1.21
C491359	1.52	<0.005	0.2	0.17	10	<10	60	0.5	<2	0.03	0.6	2	6	2	0.67
C491360	1.69	<0.005	<0.2	0.06	3	<10	10	<0.5	<2	<0.01	<0.5	<1	24	1	0.32
C491361	1.16	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	0.01	<0.5	<1	25	1	0.22
C491362	1.61	<0.005	<0.2	0.31	4	<10	120	<0.5	<2	0.05	<0.5	2	9	2	1.28
C491363	1.22	0.156	0.8	0.52	160	<10	70	<0.5	<2	0.11	0.5	4	8	96	1.08
C491364	1.98	0.016	0.2	3.36	5	<10	150	0.6	2	1.38	0.7	6	12	43	3.55
C491365	1.65	<0.005	<0.2	0.11	<2	<10	10	<0.5	<2	0.01	<0.5	<1	19	1	0.42
C491366	2.00	0.077	<0.2	0.37	2	<10	100	<0.5	<2	0.02	<0.5	1	17	2	0.66
C491367	2.44	0.009	<0.2	0.38	3	<10	70	<0.5	<2	0.04	<0.5	1	16	3	0.57
C491368	2.90	0.089	0.2	0.52	8	<10	1010	0.5	<2	0.02	<0.5	1	10	6	1.08
C491369	2.78	0.299	<0.2	0.47	8	<10	140	0.5	<2	0.02	<0.5	1	10	4	0.87
C491370	4.27	0.013	<0.2	0.21	3	<10	1210	<0.5	<2	0.01	<0.5	1	20	4	0.48
C491371	1.70	0.064	0.2	0.67	297	<10	220	0.6	<2	0.09	<0.5	3	12	6	1.20
G286319	1.64	<0.005	<0.2	0.41	7	<10	2140	<0.5	<2	8.2	<0.5	7	10	2	2.46
G286320	1.42	0.314	>100	0.19	1900	<10	110	<0.5	901	0.05	21.0	3	8	665	3.47
G286321	1.79	0.108	11.8	0.27	431	<10	100	<0.5	9	0.05	1.2	5	7	29	1.25
G286322	1.66	0.010	2.6	0.25	724	<10	150	<0.5	2	0.01	1.1	<1	5	5	0.36
G286323	1.84	0.006	1.4	0.22	615	<10	680	<0.5	<2	0.13	3.9	5	23	35	1.75
G286324	1.29	2.68	>100	0.33	8950	<10	60	<0.5	205	0.21	5.8	<1	19	3610	7.57
G286325	1.77	5.89	>100	0.26	5100	<10	270	<0.5	185	0.26	4.4	<1	34	1525	4.33
G286326	1.61	0.173	72.1	0.13	1860	<10	340	<0.5	568	0.16	4.4	2	26	715	1.16
G286327	1.27	0.006	1.0	0.58	18	<10	180	<0.5	8	0.30	<0.5	4	11	11	1.28
G286328	1.61	<0.005	0.6	0.66	24	<10	190	<0.5	3	12.0	0.6	3	14	21	1.27
G286329	1.74	<0.005	0.3	0.20	561	<10	10	<0.5	<2	0.23	7.4	2	21	11	0.44
G286330	2.17	0.040	1.5	0.30	339	<10	120	<0.5	29	0.19	<0.5	7	10	294	2.53
G286331	1.55	0.394	0.2	0.24	1005	<10	710	<0.5	<2	1.35	<0.5	6	12	22	2.45
I026915	2.46	0.153	1.6	1.95	126	<10	40	1.2	<2	1.00	<0.5	9	12	664	3.85
I026916	2.89	0.076	1.4	1.25	57	<10	50	0.8	<2	1.63	<0.5	8	10	624	3.17
I026917	5.03	0.037	1.2	0.56	60	<10	30	0.6	3	13.7	<0.5	5	4	445	2.12
I026918	3.21	0.010	0.3	0.63	42	<10	20	0.7	<2	2.70	<0.5	3	8	101	2.31
I026919	4.99	0.040	0.8	0.80	38	<10	30	0.7	31	1.25	<0.5	6	8	123	2.31
I026920	0.06	1.350	4.9	1.43	19	10	150	<0.5	<2	0.84	<0.5	12	43	>10000	3.44

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
C491351		<10	<1	0.19	10	0.01	40	20	0.01	2	80	72	0.23	20	<1	22
C491352		<10	<1	0.30	10	0.03	29	56	0.08	1	340	330	0.58	20	1	55
C491353		<10	<1	0.09	<10	0.08	104	1	0.05	2	260	5	<0.01	3	1	122
C491354		10	<1	0.16	20	0.61	1345	4	0.03	3	920	50	0.02	13	4	26
C491355		10	<1	0.13	20	0.84	910	4	0.06	16	870	239	0.75	6	5	62
C491356		<10	<1	0.27	10	0.02	39	78	0.01	1	190	116	0.38	14	1	25
C491357		10	<1	0.10	10	0.86	711	32	0.06	7	700	15	1.53	2	3	21
C491358		<10	<1	0.17	10	0.02	3940	1	0.02	4	200	67	0.04	5	1	12
C491359		<10	<1	0.10	10	0.01	3070	1	0.03	<1	90	16	<0.01	2	1	8
C491360		<10	<1	0.03	<10	<0.01	341	2	0.02	1	10	5	<0.01	3	<1	<1
C491361		<10	<1	0.01	<10	<0.01	81	2	0.01	1	<10	<2	<0.01	<2	<1	<1
C491362		<10	<1	0.07	10	0.01	274	11	0.01	1	340	11	<0.01	4	1	7
C491363		<10	<1	0.26	<10	0.09	134	4	0.01	1	440	19	<0.01	3	<1	4
C491364		10	<1	0.37	<10	1.06	387	3	0.35	4	640	16	0.33	<2	9	109
C491365		<10	<1	0.07	<10	<0.01	54	12	0.03	1	30	8	0.01	<2	1	3
C491366		<10	<1	0.13	10	0.11	63	2	0.02	2	80	10	<0.01	<2	<1	5
C491367		<10	<1	0.18	20	0.08	67	2	0.02	2	130	13	<0.01	<2	<1	5
C491368		<10	<1	0.15	20	0.17	93	3	0.01	2	30	12	0.02	<2	1	18
C491369		<10	<1	0.15	20	0.14	67	2	0.01	2	20	8	<0.01	<2	<1	6
C491370		<10	<1	0.10	10	0.04	95	2	0.01	2	10	6	0.03	<2	<1	21
C491371		<10	<1	0.21	20	0.24	296	2	0.03	3	340	14	0.07	26	2	8
G286319		<10	<1	0.11	20	0.45	1755	1	0.02	6	260	6	0.07	<2	6	108
G286320		<10	<1	0.17	10	0.01	74	2	0.04	1	110	2040	0.31	721	1	32
G286321		<10	<1	0.21	10	0.02	67	3	0.01	<1	80	120	0.13	5	<1	33
G286322		<10	<1	0.18	10	<0.01	20	1	0.01	1	60	205	0.03	13	<1	5
G286323		<10	<1	0.14	10	0.01	1790	5	0.01	15	620	118	0.01	17	2	11
G286324		<10	3	0.09	<10	0.01	108	669	0.01	14	6130	>10000	1.93	1345	1	22
G286325		<10	1	0.09	<10	0.01	232	191	0.01	10	3910	>10000	0.50	519	1	26
G286326		<10	<1	0.06	<10	0.01	39	106	0.01	5	1380	1775	0.31	497	<1	64
G286327		<10	<1	0.18	20	0.26	254	34	0.05	2	300	100	0.61	6	2	23
G286328		<10	<1	0.06	10	0.17	191	2	0.06	23	420	49	0.47	3	1	300
G286329		<10	28	0.03	<10	0.01	96	2	0.01	6	50	3	3.03	>10000	<1	31
G286330		<10	<1	0.20	20	0.09	147	2	0.02	2	290	50	1.60	144	1	13
G286331		<10	<1	0.13	10	0.39	1840	6	0.01	10	150	15	0.21	192	2	34
I026915		10	<1	0.27	20	1.02	107	7	0.02	6	800	10	0.81	10	5	72
I026916		<10	<1	0.12	40	0.73	102	13	0.01	5	760	11	0.77	11	4	74
I026917		<10	<1	0.08	20	0.50	1085	13	0.01	2	530	10	0.62	5	3	269
I026918		<10	<1	0.10	30	0.94	153	8	0.01	4	730	9	0.28	8	4	83
I026919		<10	<1	0.09	30	0.49	104	8	0.01	6	790	27	0.35	3	5	54
I026920		10	<1	0.13	10	0.65	505	484	0.11	35	560	10	0.97	3	5	47

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Cu-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Cu	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	20	0.01	10	10	1	10	2	1	0.001	0.001
C491351		<20	<0.01	<10	<10	2	<10	17			
C491352		<20	<0.01	<10	<10	3	<10	19			
C491353		<20	0.04	<10	<10	18	<10	7			
C491354		<20	<0.01	<10	<10	43	<10	105			
C491355		<20	<0.01	<10	10	42	<10	866			
C491356		<20	<0.01	<10	<10	3	<10	12			
C491357		<20	0.03	<10	<10	43	<10	173			
C491358		<20	<0.01	<10	<10	2	<10	119			
C491359		30	<0.01	<10	10	2	<10	63			
C491360		<20	<0.01	<10	<10	<1	<10	20			
C491361		<20	<0.01	<10	<10	<1	<10	<2			
C491362		<20	<0.01	<10	<10	14	<10	34			
C491363		<20	<0.01	<10	<10	3	<10	69			
C491364		<20	0.13	<10	<10	82	<10	70			
C491365		<20	<0.01	<10	<10	1	<10	6			
C491366		<20	<0.01	<10	<10	8	<10	13			
C491367		<20	<0.01	<10	<10	5	<10	11			
C491368		<20	<0.01	<10	<10	8	<10	19			
C491369		<20	<0.01	<10	<10	6	<10	16			
C491370		<20	<0.01	<10	<10	4	<10	8			
C491371		20	0.02	<10	10	19	<10	33			
G286319		<20	<0.01	<10	<10	26	<10	69			
G286320		<20	<0.01	<10	<10	7	<10	485	511		
G286321		<20	<0.01	<10	<10	7	<10	44			
G286322		<20	<0.01	<10	<10	<1	<10	18			
G286323		<20	<0.01	<10	<10	10	<10	369			
G286324		<20	<0.01	<10	30	44	<10	899	1435		17.75
G286325		<20	<0.01	<10	10	66	<10	807	233		3.14
G286326		<20	<0.01	<10	10	23	<10	113			
G286327		20	0.04	<10	10	10	<10	17			
G286328		<20	0.03	<10	<10	21	<10	57			
G286329		<20	<0.01	10	<10	4	<10	89			
G286330		20	<0.01	<10	<10	4	<10	18			
G286331		<20	<0.01	<10	<10	9	<10	38			
I026915		20	0.04	<10	10	51	<10	25			
I026916		20	0.01	<10	<10	33	<10	28			
I026917		<20	<0.01	<10	10	16	<10	17			
I026918		20	<0.01	<10	<10	30	<10	21			
I026919		20	<0.01	<10	<10	31	<10	29			
I026920		<20	0.12	<10	<10	58	30	77		1.265	

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026921		3.56	0.104	1.2	0.66	43	<10	30	0.6	<2	1.38	<0.5	5	7	464	1.95
I026922		3.59	0.203	1.3	1.10	32	<10	20	0.9	<2	2.61	<0.5	8	7	537	3.54
I026923		4.69	0.039	0.6	0.89	19	<10	120	1.0	<2	3.08	<0.5	4	6	173	2.42
I026924		2.71	0.008	0.3	0.41	11	<10	50	0.8	<2	2.53	<0.5	8	6	188	2.10
I026925		5.44	0.020	0.6	1.39	42	<10	70	1.0	2	1.47	0.7	8	9	194	3.68
I026926		5.41	0.006	0.2	0.99	11	<10	90	<0.5	<2	0.93	<0.5	6	12	82	2.66
I026927		5.62	0.007	0.3	1.35	57	<10	80	0.6	<2	1.02	<0.5	10	14	180	2.85
I026928		5.86	0.010	0.3	1.04	89	<10	90	<0.5	<2	1.04	<0.5	12	13	233	3.03
I026929		5.48	0.012	0.4	0.92	162	<10	90	<0.5	<2	1.33	<0.5	9	11	202	3.12
I026930		0.27	<0.005	<0.2	0.08	3	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.15
I026931		5.35	0.105	0.5	0.52	74	<10	40	0.6	<2	2.96	<0.5	6	8	281	2.54
I026932		5.66	0.021	0.2	0.84	28	<10	60	0.6	<2	1.66	<0.5	6	10	110	2.40
I026933		3.08	0.064	3.3	1.11	32	<10	30	<0.5	<2	1.59	0.8	7	11	1205	3.64
I026934		5.17	0.024	0.4	1.02	10	<10	110	<0.5	<2	1.36	<0.5	6	12	148	2.74
I026935		5.34	0.179	0.3	1.08	72	<10	90	0.6	16	1.94	<0.5	10	11	102	3.57
I026936		5.46	<0.005	0.2	1.29	17	<10	60	0.6	<2	1.94	<0.5	6	11	69	2.82
I026937		5.04	0.007	<0.2	1.47	17	<10	110	0.6	<2	1.40	<0.5	6	12	64	2.74
I026938		4.92	0.017	0.5	1.30	22	<10	90	0.5	4	1.36	<0.5	9	14	263	2.75
I026939		5.02	0.014	0.3	1.33	154	<10	30	0.9	<2	1.25	<0.5	11	10	226	2.70
I026940		0.06	0.338	2.7	1.72	29	10	60	<0.5	2	0.83	2.2	10	30	2520	4.48
I026941		4.69	0.017	0.5	1.60	181	<10	250	0.9	2	1.14	<0.5	10	14	241	3.08
I026942		5.25	0.070	1.0	1.02	255	<10	50	0.8	9	2.27	<0.5	10	9	547	2.96
I026943		5.17	0.122	3.6	1.14	31	<10	70	0.8	6	1.59	<0.5	10	8	1815	3.08
I026944		5.53	0.233	3.7	1.58	80	<10	80	0.9	11	1.15	<0.5	15	9	2110	3.86
I026945		5.26	0.095	1.9	1.01	31	<10	70	0.9	2	1.65	<0.5	11	6	1045	3.06
I026946		6.02	0.055	1.4	0.94	71	<10	60	0.8	8	1.27	<0.5	9	9	716	3.02
I026947		4.63	0.267	1.3	0.47	22	<10	280	1.0	18	2.09	<0.5	8	6	695	2.61
I026948		5.20	0.282	1.5	0.62	32	<10	220	0.9	2	1.65	<0.5	11	5	726	3.22
I026949		5.08	0.037	0.6	0.45	19	<10	300	1.0	13	2.45	<0.5	10	6	273	2.52
I026950		0.35	<0.005	<0.2	0.04	<2	<10	30	<0.5	<2	>25.0	<0.5	<1	1	5	0.11
I026951		5.31	0.022	0.5	0.45	16	<10	210	1.0	<2	3.45	<0.5	6	6	198	2.56
I026952		5.12	0.021	0.7	0.45	12	<10	90	0.9	<2	2.63	<0.5	5	6	285	2.59
I026953		5.14	0.148	4.1	0.42	31	<10	80	0.9	<2	2.31	1.0	5	5	1705	2.98
I026954		2.69	0.099	1.2	0.45	38	<10	50	0.9	2	2.39	<0.5	6	6	406	2.83
I026955		3.69	0.055	1.9	0.45	28	<10	80	1.0	<2	2.31	0.5	4	5	717	3.15
I026956		3.40	0.091	3.9	0.41	63	<10	20	0.7	3	0.83	0.8	20	7	1645	3.18
I026957		7.63	0.097	3.8	0.31	406	<10	<10	0.5	<2	0.78	1.1	7	9	904	12.35
I026958		5.19	0.337	9.3	0.40	138	<10	70	0.7	<2	0.57	2.1	16	9	3010	5.53
I026959		4.95	0.261	8.2	0.33	321	<10	10	0.5	2	0.37	<0.5	7	7	1630	9.05
I026960		0.06	0.710	3.3	1.21	15	10	120	<0.5	<2	0.79	<0.5	10	51	8210	2.57

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026921		<10	<1	0.11	30	0.46	93	34	0.01	6	790	7	0.42	6	5	61
I026922		<10	<1	0.11	50	0.76	162	491	0.01	5	670	9	0.70	2	4	111
I026923		<10	<1	0.13	30	0.65	284	63	0.01	3	620	7	0.33	4	4	262
I026924		<10	<1	0.16	20	0.78	289	2	0.01	5	730	5	0.54	<2	4	136
I026925		<10	<1	0.18	20	0.72	189	59	0.02	5	760	21	0.52	3	5	101
I026926		10	<1	0.39	20	0.71	158	18	0.06	5	730	6	0.28	<2	4	54
I026927		10	<1	0.39	20	0.86	149	43	0.05	5	730	4	0.51	3	5	72
I026928		10	<1	0.33	30	0.86	152	18	0.05	5	750	6	0.74	<2	5	69
I026929		10	<1	0.30	30	0.91	158	18	0.05	5	750	4	0.57	3	5	77
I026930		<10	1	0.03	<10	0.48	89	1	0.01	<1	60	15	0.01	6	<1	87
I026931		<10	<1	0.09	30	0.88	225	11	0.02	4	660	5	0.23	<2	5	197
I026932		<10	<1	0.19	30	0.62	187	287	0.03	5	710	5	0.22	<2	5	97
I026933		10	<1	0.10	30	0.71	197	145	0.03	6	700	6	0.74	<2	5	90
I026934		10	<1	0.27	20	0.74	207	10	0.04	5	720	4	0.20	<2	5	63
I026935		<10	<1	0.22	30	0.86	194	15	0.02	6	760	7	1.47	<2	5	196
I026936		10	<1	0.20	30	0.83	193	14	0.03	5	730	4	0.28	<2	5	113
I026937		10	<1	0.23	20	0.89	164	5	0.04	5	820	4	0.26	<2	5	126
I026938		10	<1	0.15	20	0.84	156	12	0.03	4	690	3	0.58	<2	4	88
I026939		<10	<1	0.12	30	0.68	117	5	0.02	6	760	5	0.71	4	4	109
I026940		<10	<1	0.29	<10	0.57	759	238	0.06	21	740	75	2.19	2	2	57
I026941		10	<1	0.20	20	0.87	135	6	0.03	6	760	6	0.55	3	5	137
I026942		<10	<1	0.13	30	0.78	159	38	0.02	5	720	5	0.72	3	4	279
I026943		<10	<1	0.13	40	0.71	131	58	0.02	5	790	6	0.51	3	4	97
I026944		<10	<1	0.13	30	0.74	116	308	0.03	6	760	6	1.19	<2	4	114
I026945		<10	<1	0.15	30	0.74	138	67	0.02	5	720	3	0.60	<2	4	159
I026946		<10	<1	0.16	30	0.66	143	30	0.03	5	810	3	0.52	2	6	104
I026947		<10	<1	0.14	30	0.75	181	71	0.01	5	740	7	0.54	2	6	158
I026948		<10	<1	0.14	30	0.73	146	44	0.01	5	700	5	0.83	5	5	161
I026949		<10	1	0.16	20	0.91	156	11	0.02	6	710	8	0.52	2	5	156
I026950		<10	<1	0.01	<10	0.42	84	1	0.01	<1	70	<2	0.01	<2	<1	90
I026951		<10	<1	0.20	20	1.24	228	9	0.02	4	730	8	0.51	2	5	170
I026952		<10	<1	0.19	20	0.95	161	9	0.02	4	750	9	0.40	<2	4	187
I026953		<10	<1	0.15	30	0.91	173	15	0.01	5	760	10	0.49	5	5	147
I026954		<10	<1	0.18	30	0.89	152	27	0.02	4	690	8	0.91	<2	4	161
I026955		<10	<1	0.19	20	0.96	180	67	0.02	6	750	8	0.44	<2	5	171
I026956		<10	<1	0.20	10	0.26	78	56	0.02	4	650	31	2.91	6	1	91
I026957		<10	4	0.16	10	0.26	95	279	0.02	6	460	27	>10.0	34	1	82
I026958		<10	<1	0.20	10	0.43	276	733	0.02	19	720	17	3.38	12	4	94
I026959		<10	2	0.17	10	0.14	53	133	0.02	8	550	17	>10.0	19	1	73
I026960		<10	<1	0.10	<10	0.57	411	402	0.08	35	530	7	0.64	<2	4	40

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Cu-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Cu	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	20	0.01	10	10	1	10	2	1	0.001	0.001
I026921		20	<0.01	<10	<10	29	<10	25			
I026922		20	<0.01	<10	10	28	30	26			
I026923		20	<0.01	<10	<10	22	<10	22			
I026924		<20	<0.01	<10	10	16	<10	16			
I026925		20	0.01	<10	10	32	<10	55			
I026926		20	0.12	<10	10	54	10	17			
I026927		20	0.09	<10	10	57	10	16			
I026928		20	0.08	<10	<10	50	<10	16			
I026929		20	0.07	<10	10	50	10	18			
I026930		<20	<0.01	<10	<10	<1	<10	6			
I026931		20	<0.01	<10	<10	28	<10	19			
I026932		20	0.02	<10	10	35	10	16			
I026933		20	0.01	<10	20	51	1870	56			
I026934		20	0.06	<10	<10	53	20	21			
I026935		20	0.03	<10	10	38	10	27			
I026936		20	0.03	<10	<10	43	<10	17			
I026937		20	0.05	<10	<10	54	<10	17			
I026938		20	0.02	<10	<10	50	<10	18			
I026939		20	<0.01	<10	<10	34	<10	18			
I026940		<20	0.04	<10	<10	32	<10	446			
I026941		20	0.03	<10	10	54	<10	18			
I026942		20	<0.01	<10	10	27	10	23			
I026943		20	<0.01	<10	10	31	50	33			
I026944		20	0.01	<10	10	42	280	31			
I026945		20	<0.01	<10	10	23	20	24			
I026946		20	0.01	<10	10	37	<10	22			
I026947		20	<0.01	<10	10	22	10	26			
I026948		20	<0.01	<10	10	19	30	22			
I026949		<20	<0.01	<10	<10	20	<10	24			
I026950		<20	<0.01	<10	<10	<1	<10	2			
I026951		20	<0.01	<10	10	22	10	27			
I026952		20	<0.01	<10	10	14	10	38			
I026953		20	<0.01	<10	10	17	<10	67			
I026954		20	<0.01	<10	10	14	<10	30			
I026955		20	<0.01	<10	10	15	<10	36			
I026956		<20	<0.01	20	<10	7	10	49			
I026957		<20	<0.01	90	10	6	10	74			
I026958		<20	<0.01	10	20	28	570	122			
I026959		<20	<0.01	60	10	6	50	40			
I026960		<20	0.11	<10	<10	52	30	60			

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I026961		4.07	0.027	0.6	0.43	44	<10	200	<0.5	<2	1.56	<0.5	5	8	278	2.35
I026962		2.90	0.013	0.2	0.37	41	<10	710	<0.5	<2	1.82	<0.5	2	10	95	2.09
I026963		6.81	0.009	0.2	0.42	20	<10	450	0.5	<2	1.92	<0.5	1	7	57	2.04
I026964		6.56	0.048	<0.2	0.38	67	<10	40	0.5	<2	1.47	<0.5	4	8	64	3.62
I026965		4.84	0.010	<0.2	0.40	19	<10	390	0.5	<2	2.27	<0.5	2	10	54	2.40
I026966		5.38	0.010	0.2	0.39	21	<10	220	0.6	<2	2.21	<0.5	1	7	143	2.28
I026967		5.91	0.022	0.2	0.41	12	<10	380	0.5	<2	1.82	<0.5	2	9	239	1.70
I026968		5.70	0.011	0.4	0.36	19	<10	480	0.6	<2	1.73	<0.5	1	8	510	1.79
I026969		5.78	0.016	0.9	0.39	34	<10	720	0.6	<2	1.72	<0.5	1	7	947	1.70
I026970		0.22	<0.005	0.4	0.04	3	<10	50	<0.5	<2	>25.0	<0.5	<1	1	8	0.14
I026971		5.72	0.009	0.3	0.37	10	<10	1980	0.6	<2	2.22	<0.5	1	7	300	1.74
I026972		5.44	0.026	<0.2	0.37	11	<10	610	0.7	<2	2.02	<0.5	<1	7	138	1.86
I026973		5.65	<0.005	<0.2	0.39	6	<10	130	0.6	<2	1.39	<0.5	<1	6	11	1.57
I026974		4.92	0.005	<0.2	0.42	12	<10	170	0.7	<2	1.35	<0.5	<1	7	14	1.72
I026975		5.51	0.005	0.4	0.39	12	<10	350	0.7	<2	1.76	<0.5	1	7	351	2.00
I026976		5.94	0.010	0.7	0.42	11	<10	660	0.7	<2	1.81	<0.5	<1	7	696	2.05
I026977		2.67	0.065	0.2	0.39	10	<10	230	0.7	<2	1.92	<0.5	1	7	195	2.04
I026978		5.69	<0.005	<0.2	0.40	4	<10	350	0.7	<2	2.07	<0.5	1	6	4	1.92
I026979		5.64	0.006	<0.2	0.37	5	<10	250	0.7	<2	1.71	<0.5	<1	6	2	2.08
I026980		0.06	0.323	2.7	1.71	27	10	60	<0.5	2	0.82	2.0	11	30	2540	4.51
I026981		1.66	<0.005	<0.2	0.36	3	<10	320	0.7	<2	2.06	<0.5	<1	5	2	1.77
I026982		6.04	<0.005	<0.2	0.35	4	<10	420	0.7	<2	2.04	<0.5	<1	7	2	2.26
I026983		5.39	0.005	<0.2	0.33	7	<10	300	0.6	<2	2.08	<0.5	1	6	2	2.16
I026984		5.68	<0.005	<0.2	0.34	3	<10	360	0.7	<2	1.70	<0.5	<1	6	1	2.10
I026985		4.87	<0.005	<0.2	0.35	8	<10	140	0.7	<2	1.76	<0.5	<1	6	1	2.20
I026986		5.19	<0.005	<0.2	0.33	3	<10	180	0.7	<2	1.48	<0.5	<1	7	1	1.91
I026987		5.48	<0.005	<0.2	0.33	<2	<10	260	0.8	<2	1.30	<0.5	1	6	1	1.60
I026988		5.07	<0.005	<0.2	0.34	9	<10	300	0.8	<2	1.52	<0.5	1	8	1	2.27
I026989		5.59	<0.005	<0.2	0.30	4	<10	460	0.7	<2	1.93	<0.5	<1	8	2	1.86
I026990		0.33	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.10
I026991		5.65	<0.005	<0.2	0.31	6	<10	330	0.6	<2	1.37	<0.5	1	7	3	2.01
I026992		5.15	0.091	0.2	0.31	15	<10	280	0.6	<2	0.88	<0.5	1	8	202	2.30
I026993		6.28	0.027	<0.2	0.30	16	<10	220	0.6	<2	0.90	<0.5	1	8	5	2.43
I026994		5.23	<0.005	<0.2	0.32	17	<10	250	0.7	<2	1.17	<0.5	2	7	4	2.36
I026995		6.25	0.005	<0.2	0.33	21	<10	400	0.7	<2	1.56	<0.5	1	6	10	1.88
I026996		5.71	<0.005	<0.2	0.34	5	<10	630	0.8	<2	1.63	<0.5	<1	7	2	2.02
I026997		5.21	0.008	<0.2	0.32	5	<10	270	0.8	<2	1.65	<0.5	1	7	75	2.08
I026998		5.77	0.048	0.8	0.36	13	<10	440	0.8	<2	1.58	<0.5	<1	8	566	2.22
I026999		5.46	0.023	0.9	0.33	9	<10	370	0.7	<2	1.44	<0.5	1	7	705	1.94
I027000		0.06	0.322	2.7	1.68	28	10	60	<0.5	<2	0.82	2.2	11	30	2550	4.47

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To: TRIUMPH GOLD CORP.
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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I026961		<10	<1	0.11	10	0.55	178	8	0.01	5	490	4	0.83	4	3	175
I026962		<10	<1	0.12	10	0.62	198	4	0.01	4	560	3	0.28	<2	3	112
I026963		<10	<1	0.14	10	0.63	185	6	0.01	5	610	3	0.44	2	3	119
I026964		<10	<1	0.18	10	0.48	156	7	0.01	13	640	5	2.55	<2	3	111
I026965		<10	<1	0.18	10	0.72	210	4	0.01	4	700	3	0.50	<2	3	145
I026966		<10	<1	0.17	10	0.75	192	6	0.01	5	760	3	0.74	<2	3	115
I026967		<10	<1	0.19	10	0.59	179	6	0.01	3	660	2	0.26	<2	3	105
I026968		<10	<1	0.18	10	0.54	182	4	0.01	3	670	2	0.24	2	3	132
I026969		<10	<1	0.21	10	0.52	178	5	0.02	5	670	2	0.24	5	3	202
I026970		<10	<1	0.01	<10	0.47	102	<1	0.01	<1	80	23	0.02	14	<1	98
I026971		<10	<1	0.20	10	0.69	192	5	0.02	3	640	2	0.12	<2	3	270
I026972		<10	<1	0.20	20	0.62	201	4	0.02	4	680	4	0.07	2	3	258
I026973		<10	<1	0.22	20	0.43	168	6	0.02	2	670	3	0.07	<2	3	167
I026974		<10	<1	0.22	10	0.41	165	5	0.02	3	700	3	0.43	<2	3	232
I026975		<10	<1	0.21	10	0.54	194	9	0.02	38	650	4	0.25	<2	3	191
I026976		<10	<1	0.24	10	0.54	195	7	0.02	3	680	4	0.27	<2	3	175
I026977		<10	<1	0.23	10	0.56	182	8	0.02	5	650	<2	0.22	<2	3	179
I026978		<10	<1	0.23	20	0.60	188	6	0.03	3	690	2	0.12	<2	3	215
I026979		<10	<1	0.23	20	0.50	182	9	0.02	2	660	3	0.20	<2	2	181
I026980		<10	<1	0.29	<10	0.57	762	236	0.06	21	740	76	2.19	<2	2	56
I026981		<10	<1	0.24	10	0.58	162	5	0.02	1	600	<2	0.11	<2	2	199
I026982		<10	1	0.21	10	0.62	184	8	0.02	2	610	2	0.20	<2	3	200
I026983		<10	<1	0.21	10	0.65	182	3	0.02	2	600	2	0.35	<2	2	183
I026984		<10	<1	0.22	20	0.56	185	6	0.02	2	640	3	0.21	<2	2	135
I026985		<10	<1	0.23	20	0.54	181	7	0.02	3	630	3	0.37	<2	2	167
I026986		<10	<1	0.21	20	0.47	176	3	0.02	2	610	2	0.12	<2	2	161
I026987		<10	<1	0.21	30	0.40	167	22	0.02	1	610	3	0.04	<2	2	188
I026988		<10	<1	0.20	20	0.50	189	34	0.02	3	590	4	0.71	<2	2	193
I026989		<10	<1	0.18	20	0.60	207	23	0.02	2	540	4	0.16	<2	3	224
I026990		<10	<1	0.01	<10	0.51	100	<1	<0.01	1	70	4	<0.01	<2	<1	88
I026991		<10	<1	0.17	20	0.47	198	79	0.02	2	580	2	0.43	<2	3	171
I026992		<10	<1	0.18	20	0.38	220	105	0.02	4	630	2	0.73	2	3	136
I026993		<10	<1	0.19	20	0.38	219	51	0.02	3	600	2	0.91	<2	3	138
I026994		<10	<1	0.19	10	0.43	216	31	0.02	3	580	2	0.79	<2	3	148
I026995		<10	<1	0.21	10	0.49	192	12	0.02	2	540	3	0.30	<2	2	154
I026996		<10	<1	0.21	10	0.52	199	6	0.02	2	510	4	0.27	<2	2	190
I026997		<10	<1	0.19	10	0.56	212	6	0.02	2	530	2	0.20	<2	3	221
I026998		<10	<1	0.22	10	0.53	204	11	0.02	2	620	3	0.37	<2	3	206
I026999		<10	<1	0.21	10	0.49	177	9	0.02	2	500	3	0.22	<2	2	194
I027000		<10	<1	0.28	<10	0.56	752	234	0.05	22	740	75	2.18	<2	2	55

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Cu-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Cu	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	20	0.01	10	10	1	10	2	1	0.001	0.001
I026961		<20	<0.01	<10	<10	14	<10	25			
I026962		<20	<0.01	<10	<10	14	<10	20			
I026963		<20	<0.01	<10	<10	14	<10	19			
I026964		<20	<0.01	<10	<10	13	<10	18			
I026965		<20	<0.01	<10	<10	18	<10	17			
I026966		<20	<0.01	<10	<10	15	<10	21			
I026967		<20	<0.01	<10	<10	13	<10	20			
I026968		<20	<0.01	<10	<10	13	<10	17			
I026969		<20	<0.01	<10	<10	10	<10	14			
I026970		<20	<0.01	<10	<10	<1	<10	3			
I026971		<20	<0.01	<10	<10	11	<10	15			
I026972		<20	<0.01	<10	<10	14	<10	21			
I026973		<20	<0.01	<10	<10	9	<10	15			
I026974		<20	<0.01	<10	<10	10	<10	15			
I026975		<20	<0.01	<10	<10	11	<10	24			
I026976		<20	<0.01	<10	<10	10	<10	19			
I026977		<20	<0.01	<10	<10	11	<10	16			
I026978		<20	<0.01	<10	<10	11	<10	17			
I026979		<20	<0.01	<10	<10	10	<10	17			
I026980		<20	0.04	<10	<10	32	<10	446			
I026981		<20	<0.01	<10	<10	8	<10	11			
I026982		<20	<0.01	<10	<10	13	<10	15			
I026983		<20	<0.01	<10	<10	11	<10	16			
I026984		<20	<0.01	<10	<10	10	<10	15			
I026985		<20	<0.01	<10	<10	9	<10	12			
I026986		<20	<0.01	<10	<10	10	<10	14			
I026987		<20	<0.01	<10	<10	10	<10	15			
I026988		<20	<0.01	<10	<10	13	<10	13			
I026989		<20	<0.01	<10	<10	14	<10	15			
I026990		<20	<0.01	<10	<10	<1	<10	5			
I026991		<20	<0.01	<10	10	17	<10	19			
I026992		<20	<0.01	<10	10	19	<10	23			
I026993		<20	<0.01	<10	10	16	<10	20			
I026994		<20	<0.01	<10	<10	14	<10	18			
I026995		<20	<0.01	<10	<10	9	<10	14			
I026996		<20	<0.01	<10	<10	11	<10	16			
I026997		<20	<0.01	<10	<10	15	<10	19			
I026998		<20	<0.01	<10	<10	15	<10	19			
I026999		<20	<0.01	<10	<10	12	<10	18			
I027000		<20	0.04	<10	<10	32	<10	444			

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 5- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I027001		5.66	0.055	1.0	0.35	12	<10	510	0.7	<2	1.54	<0.5	1	7	978	1.97
I027002		2.63	0.010	0.9	0.34	7	<10	1050	0.7	<2	1.62	<0.5	<1	8	642	1.87
I027003		3.25	0.063	0.9	0.36	11	<10	500	0.7	<2	1.52	<0.5	1	8	658	1.95
I027004		2.78	0.143	0.3	0.32	10	<10	310	0.7	<2	1.54	<0.5	1	7	303	2.34
I027005		3.75	0.013	<0.2	0.35	25	<10	200	0.7	<2	1.64	<0.5	<1	7	8	2.72
I027006		4.67	0.005	0.2	0.37	9	<10	230	0.7	<2	2.17	<0.5	<1	7	101	3.07
I027007		4.18	0.038	0.5	0.36	11	<10	270	0.7	<2	2.14	<0.5	2	7	511	2.66
I027008		4.26	0.005	<0.2	0.37	5	<10	380	0.8	<2	1.91	<0.5	<1	7	4	2.90
I027009		5.45	0.030	0.5	0.37	12	<10	260	0.8	<2	1.79	<0.5	7	8	462	1.90
I027010		0.31	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4	0.11
I027011		5.73	0.031	1.6	0.37	26	<10	270	0.7	<2	2.24	<0.5	7	7	1655	1.71
I027012		5.68	0.087	1.1	0.36	31	<10	360	0.7	<2	1.97	<0.5	5	7	1090	1.76
I027013		5.72	0.060	0.7	0.38	22	<10	430	0.7	<2	1.94	<0.5	8	7	686	2.15
I027014		5.69	0.026	<0.2	0.40	15	<10	350	0.7	<2	2.08	<0.5	5	7	107	2.26
I027015		5.55	0.006	<0.2	0.37	9	<10	430	0.7	<2	2.01	<0.5	2	7	6	2.46
I027016		4.96	0.010	<0.2	0.38	8	<10	500	0.7	<2	2.09	<0.5	4	6	4	2.53
I027017		5.17	0.007	<0.2	0.39	6	<10	400	0.7	<2	2.08	<0.5	1	6	3	2.47
I027018		5.86	<0.005	<0.2	0.39	8	<10	360	0.7	<2	1.97	<0.5	4	7	3	2.54
I027019		6.00	<0.005	<0.2	0.39	7	<10	320	0.7	<2	2.40	<0.5	4	7	3	2.72
I027020		0.06	0.307	3.0	1.70	28	10	60	<0.5	2	0.83	2.2	11	30	2960	4.48
I027021		7.14	<0.005	<0.2	0.35	6	<10	770	0.6	<2	1.69	<0.5	4	7	4	2.39
I027022		5.27	0.026	<0.2	0.39	6	<10	780	0.6	<2	1.67	<0.5	5	6	2	1.61
I027023		3.95	0.016	<0.2	0.38	6	<10	1470	0.6	<2	1.50	<0.5	2	7	5	1.80
I027024		6.01	0.005	<0.2	0.37	5	<10	730	0.6	<2	1.65	<0.5	3	8	1	1.75
I027025		5.82	0.009	<0.2	0.34	5	<10	420	0.5	<2	1.36	<0.5	2	10	8	1.68
I027026		5.63	<0.005	<0.2	0.37	6	<10	450	0.6	<2	1.16	<0.5	1	9	<1	1.52
I027027		5.32	0.005	<0.2	0.29	2	<10	280	<0.5	<2	0.81	<0.5	1	10	<1	1.61
I027028		5.47	0.138	2.6	0.26	21	<10	390	<0.5	<2	2.55	<0.5	<1	10	2480	2.63
I027029		5.66	0.057	7.1	0.24	50	<10	270	<0.5	2	2.05	<0.5	1	8	5360	2.82
I027030		0.30	<0.005	<0.2	0.03	<2	<10	30	<0.5	<2	>25.0	<0.5	<1	1	12	0.12
I027031		5.65	0.042	3.5	0.27	29	<10	310	<0.5	<2	1.77	<0.5	<1	6	3160	2.35
I027032		5.55	0.082	<0.2	0.26	7	<10	490	<0.5	<2	2.67	<0.5	<1	8	227	2.11
I027033		5.81	0.046	<0.2	0.25	10	<10	210	<0.5	2	1.57	<0.5	1	8	76	1.93
I027034		2.72	0.007	<0.2	0.26	8	<10	200	<0.5	<2	1.15	<0.5	4	8	3	1.58
I027035		3.11	0.111	0.6	0.25	25	<10	90	<0.5	<2	1.12	<0.5	17	6	422	2.12
I027036		5.44	0.072	<0.2	1.01	24	<10	100	<0.5	6	0.34	<0.5	2	11	242	2.59
I027037		4.94	0.409	<0.2	1.01	20	<10	100	<0.5	7	0.30	<0.5	2	11	157	2.54
I027038		6.81	0.128	0.7	0.83	203	<10	80	<0.5	8	0.54	<0.5	13	10	567	3.08
I027039		4.82	0.052	0.6	1.00	185	<10	230	<0.5	11	0.28	<0.5	11	10	340	2.74
I027040		0.06	0.300	2.7	1.70	28	10	60	<0.5	<2	0.83	2.2	10	29	2500	4.49

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 5- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I027001		<10	<1	0.22	10	0.53	192	8	0.03	3	570	4	0.23	<2	3	234
I027002		<10	<1	0.21	10	0.56	196	9	0.02	3	590	<2	0.12	<2	3	227
I027003		<10	<1	0.21	10	0.54	190	2	0.03	2	510	2	0.19	<2	3	227
I027004		<10	<1	0.19	10	0.57	207	4	0.02	3	530	2	0.37	<2	3	195
I027005		<10	<1	0.20	10	0.56	194	14	0.02	3	600	3	0.96	<2	3	189
I027006		<10	<1	0.21	10	0.65	264	8	0.03	3	850	2	0.61	<2	3	223
I027007		<10	<1	0.20	10	0.70	262	11	0.02	4	820	2	0.24	<2	3	224
I027008		<10	<1	0.21	10	0.65	219	2	0.03	2	660	2	0.09	<2	3	249
I027009		<10	<1	0.21	10	0.57	200	6	0.03	4	630	3	0.28	<2	3	226
I027010		<10	<1	0.01	<10	0.49	91	<1	0.01	<1	70	<2	0.01	<2	<1	100
I027011		<10	<1	0.21	10	0.57	185	7	0.02	6	660	2	0.41	<2	2	232
I027012		<10	<1	0.20	10	0.52	183	5	0.02	7	680	3	0.42	2	2	216
I027013		<10	<1	0.21	10	0.65	218	6	0.02	6	680	2	0.41	<2	3	244
I027014		<10	<1	0.23	10	0.68	225	10	0.02	4	710	2	0.34	<2	3	240
I027015		<10	<1	0.22	10	0.66	224	12	0.02	5	690	2	0.38	<2	3	223
I027016		<10	<1	0.22	10	0.64	222	7	0.02	6	660	3	0.38	<2	3	234
I027017		<10	<1	0.24	10	0.63	222	9	0.02	4	690	3	0.34	<2	3	222
I027018		<10	<1	0.23	10	0.60	222	7	0.02	5	710	3	0.34	<2	3	220
I027019		<10	<1	0.25	10	0.67	239	3	0.02	4	740	3	0.44	<2	3	251
I027020		10	<1	0.29	<10	0.56	755	240	0.06	22	740	76	2.19	<2	2	56
I027021		<10	<1	0.23	10	0.51	219	1	0.02	4	700	<2	0.24	<2	2	189
I027022		<10	<1	0.26	10	0.47	171	1	0.02	4	670	3	0.25	<2	2	180
I027023		<10	<1	0.24	10	0.46	190	2	0.03	2	650	<2	0.12	<2	2	179
I027024		<10	<1	0.21	10	0.53	184	1	0.03	3	520	2	0.23	<2	2	187
I027025		<10	<1	0.18	10	0.45	171	11	0.03	1	490	2	0.12	<2	3	204
I027026		<10	<1	0.23	10	0.38	165	34	0.03	<1	440	<2	0.09	<2	2	167
I027027		<10	<1	0.19	10	0.32	160	90	0.02	<1	330	3	0.08	<2	2	145
I027028		<10	<1	0.17	10	0.78	265	1	0.02	6	560	<2	0.47	<2	3	229
I027029		<10	<1	0.16	20	0.65	238	21	0.02	10	570	2	0.76	3	2	268
I027030		<10	1	0.01	<10	0.47	95	<1	0.01	<1	70	<2	0.01	<2	<1	93
I027031		<10	<1	0.18	10	0.57	202	83	0.02	3	850	2	0.45	<2	2	245
I027032		<10	<1	0.17	20	0.78	220	1	0.02	<1	640	<2	0.36	<2	2	309
I027033		<10	<1	0.17	10	0.47	199	11	0.02	1	680	2	0.38	<2	3	196
I027034		<10	<1	0.18	10	0.34	150	55	0.02	<1	660	2	0.31	<2	2	182
I027035		<10	<1	0.18	10	0.33	129	53	0.02	10	740	2	1.14	<2	2	139
I027036		10	<1	0.48	20	0.63	112	1	0.08	1	710	4	0.10	<2	4	46
I027037		<10	<1	0.50	20	0.64	105	1	0.07	1	700	3	0.09	<2	5	43
I027038		<10	<1	0.37	20	0.56	154	9	0.05	6	680	4	0.50	<2	5	66
I027039		<10	<1	0.50	20	0.56	147	1	0.05	5	720	10	0.09	<2	5	49
I027040		<10	<1	0.28	<10	0.57	741	241	0.06	19	730	78	2.29	<2	2	55

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Cu-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Cu	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	20	0.01	10	10	1	10	2	1	0.001	0.001
I027001		<20	<0.01	<10	10	13	<10	20			
I027002		<20	<0.01	<10	<10	14	<10	19			
I027003		<20	<0.01	<10	<10	14	<10	20			
I027004		<20	<0.01	<10	<10	17	<10	21			
I027005		<20	<0.01	<10	<10	15	<10	18			
I027006		<20	<0.01	<10	<10	21	<10	24			
I027007		<20	<0.01	<10	<10	19	<10	26			
I027008		<20	<0.01	<10	<10	17	<10	21			
I027009		<20	<0.01	<10	<10	14	<10	18			
I027010		<20	<0.01	<10	<10	<1	<10	3			
I027011		<20	<0.01	<10	<10	13	<10	16			
I027012		<20	<0.01	<10	<10	13	<10	17			
I027013		<20	<0.01	<10	<10	16	<10	21			
I027014		<20	<0.01	<10	<10	17	<10	20			
I027015		<20	<0.01	<10	<10	16	<10	20			
I027016		<20	<0.01	<10	<10	16	<10	21			
I027017		<20	<0.01	<10	<10	15	<10	17			
I027018		<20	<0.01	<10	<10	17	<10	15			
I027019		<20	<0.01	<10	10	19	<10	22			
I027020		<20	0.04	<10	<10	32	<10	449			
I027021		<20	<0.01	<10	<10	17	<10	17			
I027022		<20	<0.01	<10	10	11	<10	15			
I027023		<20	<0.01	<10	<10	12	<10	15			
I027024		<20	<0.01	<10	<10	14	<10	16			
I027025		<20	<0.01	<10	<10	16	<10	19			
I027026		<20	<0.01	<10	<10	11	<10	14			
I027027		<20	<0.01	<10	<10	14	<10	17			
I027028		<20	<0.01	<10	<10	25	<10	26			
I027029		<20	<0.01	<10	<10	21	<10	31			
I027030		<20	<0.01	<10	<10	<1	<10	<2			
I027031		<20	<0.01	<10	<10	19	<10	24			
I027032		<20	<0.01	<10	<10	20	<10	14			
I027033		<20	<0.01	<10	<10	20	<10	15			
I027034		<20	<0.01	<10	<10	15	<10	9			
I027035		<20	<0.01	<10	<10	11	<10	9			
I027036		<20	0.15	<10	<10	57	10	12			
I027037		<20	0.14	<10	<10	58	10	12			
I027038		<20	0.05	<10	<10	46	20	18			
I027039		<20	0.12	<10	<10	55	<10	22			
I027040		<20	0.04	<10	<10	31	<10	441			

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I027041		4.99	0.100	0.2	1.07	4	<10	110	<0.5	5	0.41	<0.5	5	11	133	2.30
I027042		5.44	0.015	<0.2	0.99	14	<10	110	<0.5	2	0.44	<0.5	9	10	113	2.15
I027043		5.29	0.010	<0.2	1.04	4	<10	210	<0.5	3	0.50	<0.5	6	13	105	2.39
I027044		5.76	0.016	<0.2	1.05	5	<10	160	<0.5	3	0.54	<0.5	8	11	146	2.51
I027045		5.59	0.015	<0.2	1.02	17	<10	180	<0.5	3	0.61	<0.5	7	12	81	2.29
I027046		6.45	0.014	<0.2	1.20	5	<10	110	<0.5	2	0.72	<0.5	5	13	50	2.22
I027047		5.57	0.114	<0.2	1.24	12	<10	130	<0.5	4	0.81	<0.5	7	12	89	2.40
I027048		5.45	0.018	<0.2	1.37	30	<10	80	0.5	2	1.14	<0.5	5	14	97	2.50
I027049		5.15	0.021	<0.2	1.35	5	<10	120	<0.5	4	0.94	<0.5	6	14	138	2.77
I027050		0.27	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	<1	0.11
I027051		3.05	0.009	<0.2	1.21	5	<10	210	<0.5	<2	0.84	<0.5	8	13	112	2.85
I027052		4.44	0.016	0.2	1.23	25	<10	80	<0.5	2	1.19	<0.5	8	12	164	3.18
I027053		3.38	0.068	<0.2	0.61	126	<10	50	0.8	<2	1.75	<0.5	8	8	106	3.06
I027054		4.93	0.106	0.2	1.08	126	<10	60	0.6	3	0.95	<0.5	7	9	147	2.83
I027055		5.09	0.164	0.6	0.78	222	<10	110	0.6	4	1.38	<0.5	9	8	273	3.06

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I027041		10	<1	0.51	20	0.62	126	6	0.08	2	720	2	0.09	<2	3	43
I027042		<10	<1	0.44	20	0.56	150	1	0.08	3	720	2	0.08	<2	3	34
I027043		10	<1	0.58	20	0.69	159	3	0.09	2	740	3	0.29	<2	4	31
I027044		<10	<1	0.55	20	0.71	169	1	0.09	3	750	2	0.41	<2	3	27
I027045		<10	<1	0.44	20	0.65	199	1	0.08	3	750	3	0.21	<2	3	32
I027046		10	<1	0.48	20	0.77	166	1	0.11	3	760	2	0.19	<2	3	38
I027047		10	<1	0.48	20	0.81	168	2	0.07	4	760	2	0.21	<2	5	33
I027048		10	<1	0.40	20	0.81	188	4	0.06	2	740	2	0.22	<2	5	41
I027049		10	<1	0.63	30	0.92	190	1	0.09	4	900	3	0.39	<2	5	37
I027050		<10	1	0.01	<10	0.46	87	<1	0.01	<1	70	<2	0.01	<2	<1	96
I027051		10	<1	0.56	20	0.87	234	1	0.09	4	880	3	0.39	<2	4	30
I027052		10	<1	0.45	30	0.84	211	1	0.08	3	800	3	0.60	<2	6	44
I027053		<10	<1	0.13	30	0.60	327	1	0.02	3	750	9	0.40	<2	5	50
I027054		10	<1	0.31	30	0.65	169	1	0.03	3	790	4	0.35	2	6	35
I027055		<10	<1	0.29	20	0.65	276	1	0.03	3	720	15	0.60	2	5	44

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-OG46 Ag ppm 1	Cu-OG46 Cu % 0.001	Pb-OG46 Pb % 0.001
I027041		<20	0.15	<10	<10	54	<10	13			
I027042		20	0.15	<10	<10	51	<10	14			
I027043		20	0.17	<10	<10	58	20	14			
I027044		20	0.17	<10	<10	57	10	15			
I027045		<20	0.15	<10	<10	56	<10	16			
I027046		<20	0.16	<10	<10	52	<10	13			
I027047		<20	0.12	<10	<10	53	<10	15			
I027048		20	0.06	<10	<10	50	<10	15			
I027049		20	0.16	<10	<10	63	<10	18			
I027050		<20	<0.01	<10	<10	1	<10	2			
I027051		<20	0.16	<10	<10	68	<10	20			
I027052		20	0.09	<10	<10	56	<10	18			
I027053		<20	0.01	<10	<10	32	<10	26			
I027054		20	0.04	<10	10	44	<10	18			
I027055		20	0.04	<10	<10	41	<10	39			

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164170

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag- OG46	Au- AA23	Cu- OG46	ME- ICP41
	ME- OG46	Pb- OG46		

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164260

Project: Freegold Mtn - Tinta Property

P.O. No.: 1005139- NOFREG- R1

This report is for 165 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL050 01+50N		0.71	0.0079	0.26	1.76	26.2	0.08	<10	180	0.29	0.52	0.43	0.05	14.50	7.4	20
FGL050 02+00N		0.79	0.0081	0.19	2.30	20.5	<0.02	<10	180	0.40	1.18	0.38	0.08	15.80	8.6	29
FGL050 02+50N		0.48	0.0043	0.14	1.96	10.1	<0.02	<10	150	0.34	0.50	0.36	0.09	12.00	7.7	24
FGL050 03+00N		0.40	0.0056	0.16	1.58	16.1	<0.02	<10	110	0.29	0.51	0.27	0.10	11.20	6.8	18
FGL050 03+50N		0.31	0.0076	0.38	1.09	6.1	<0.02	<10	90	0.44	0.28	0.22	0.09	11.00	3.4	11
FGL050 04+00N		0.59	0.0087	0.14	1.31	14.0	<0.02	<10	110	0.19	0.41	0.33	0.08	13.15	4.1	18
FGL050 04+50N		0.69	0.0091	0.15	1.42	56.7	<0.02	<10	110	0.25	0.65	0.40	0.09	17.35	5.9	19
FGL050 06+00N		0.50	0.0031	0.15	1.40	10.0	<0.02	<10	220	0.36	0.34	0.98	0.24	23.0	8.3	18
FGL050 06+50N		0.45	0.0037	0.20	1.79	10.0	<0.02	<10	260	0.50	0.57	0.76	0.18	28.8	9.3	23
FGL050 07+00N		0.41	0.0063	0.21	1.51	9.6	<0.02	<10	270	0.47	0.52	1.08	0.25	24.7	7.8	19
FGL050 07+50N		0.61	0.0044	0.27	1.36	11.2	<0.02	<10	190	0.46	0.64	0.47	0.16	25.7	7.5	22
FGL050 08+00N		0.65	0.0069	0.13	3.75	14.1	<0.02	<10	1120	0.50	0.67	0.57	0.11	30.6	7.5	20
FGL051 00+00N		0.36	0.0010	0.32	0.92	4.7	<0.02	<10	150	0.25	0.28	0.16	0.06	9.96	3.7	11
FGL051 00+50N		0.59	0.0023	0.20	1.72	17.6	<0.02	<10	220	0.31	1.43	0.30	0.11	15.20	7.4	25
FGL051 01+00N		0.44	0.0012	0.37	1.61	18.5	<0.02	<10	430	0.34	1.71	0.37	0.12	16.65	8.0	26
FGL051 02+50N		0.41	0.0021	0.26	1.13	15.2	<0.02	<10	220	0.16	2.33	0.37	0.12	12.20	4.4	20
FGL051 04+00N		0.25	0.0040	0.25	1.04	7.8	<0.02	<10	220	0.15	0.44	0.44	0.21	14.45	3.6	17
FGL051 04+50N		0.37	0.0009	0.16	0.54	4.0	<0.02	<10	110	0.09	0.33	0.23	0.14	8.68	3.2	9
FGL051 05+00N		0.41	0.0105	0.13	0.99	7.4	<0.02	<10	140	0.21	0.50	0.50	0.17	20.7	7.8	15
FGL051 05+50N		0.41	0.0022	0.29	1.56	9.4	<0.02	<10	370	0.42	0.90	1.03	0.39	26.1	10.5	24
FGL051 06+00N		0.57	0.0039	0.35	1.67	25.6	<0.02	<10	290	0.57	0.85	0.80	0.51	31.2	8.9	25
FGL051 06+50N		0.58	0.0022	0.23	1.60	23.0	<0.02	<10	260	0.51	0.67	0.75	0.23	26.9	8.7	23
FGL051 07+00N		0.48	0.0019	0.12	1.12	11.2	<0.02	<10	190	0.36	0.42	0.43	0.08	19.15	6.0	15
FGL051 07+50N		0.47	0.0048	0.07	1.42	12.1	<0.02	<10	110	0.26	0.32	0.17	0.11	17.85	5.7	24
FGL051 08+00N		0.41	0.0013	0.07	2.33	10.7	<0.02	<10	140	0.65	0.49	0.31	0.08	30.2	8.8	36
FGL052 00+00		0.36	0.0036	0.09	1.12	25.3	<0.02	<10	90	0.33	0.36	0.18	0.08	13.45	4.4	10
FGL052 00+50S		0.34	0.0016	0.07	1.71	11.4	<0.02	<10	180	0.38	0.24	0.17	0.16	17.65	6.6	22
FGL052 01+00S		0.42	0.0012	0.05	1.65	16.7	<0.02	<10	130	0.36	0.42	0.26	0.21	14.55	7.5	21
FGL052 01+50S		0.45	0.0024	0.17	1.95	26.4	<0.02	<10	200	0.71	0.61	0.42	0.34	31.9	9.2	24
FGL052 02+00S		0.45	0.0020	0.10	1.48	10.4	<0.02	<10	90	0.40	0.29	0.22	0.27	16.00	8.7	16
FGL052 02+50S		0.43	0.0093	0.10	1.28	14.5	<0.02	<10	80	0.27	0.43	0.27	0.21	14.60	6.5	19
FGL052 03+00S		0.33	0.0017	0.44	1.35	11.3	<0.02	<10	290	0.35	1.49	0.57	0.39	18.10	8.0	18
FGL052 03+50S		0.45	0.0029	0.38	1.23	10.2	<0.02	<10	220	0.22	1.86	0.45	0.21	19.30	7.0	18
FGL052 04+00S		0.46	0.0066	0.26	1.23	10.1	<0.02	<10	170	0.18	1.22	0.37	0.20	16.80	5.8	19
FGL052 04+50S		0.57	0.0058	0.16	1.09	15.7	<0.02	<10	160	0.17	0.65	0.41	0.22	15.95	6.4	17
FGL052 05+00S		0.41	0.0016	0.21	1.20	12.5	0.02	<10	130	0.18	0.42	0.19	0.13	16.05	3.9	18
FGL052 05+50S		0.41	0.0082	0.08	0.94	9.2	<0.02	<10	190	0.12	0.28	0.36	0.10	12.20	6.1	13
FGL052 06+00S		0.39	0.0069	0.19	0.63	22.3	<0.02	<10	300	0.19	0.53	0.31	0.07	10.65	4.2	9
FGL052 07+00S		0.47	0.0012	0.07	2.57	51.9	<0.02	<10	180	0.54	2.47	0.26	0.26	20.5	13.8	40
FGL052 07+50S		0.37	0.0008	0.06	0.71	3.1	<0.02	<10	100	0.14	0.32	0.13	0.04	9.47	2.0	8

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL050 01+50N		2.21	10.1	2.26	6.44	<0.05	<0.02	0.02	0.019	0.08	7.3	8.0	0.71	253	0.38	0.02
FGL050 02+00N		1.92	11.8	2.76	7.70	<0.05	0.02	0.02	0.020	0.09	7.7	10.1	0.76	328	0.55	0.02
FGL050 02+50N		2.38	14.4	2.21	7.05	<0.05	<0.02	0.03	0.020	0.10	6.0	7.3	0.71	328	0.35	0.02
FGL050 03+00N		1.83	12.3	1.80	6.14	<0.05	<0.02	0.03	0.018	0.07	5.9	6.4	0.47	232	0.86	0.02
FGL050 03+50N		1.68	18.1	1.06	3.53	<0.05	<0.02	0.04	0.014	0.05	6.2	2.8	0.22	102	0.35	0.02
FGL050 04+00N		2.18	7.3	1.61	6.18	<0.05	<0.02	0.03	0.015	0.08	7.2	4.2	0.48	156	0.31	0.02
FGL050 04+50N		3.06	7.7	2.07	6.71	<0.05	<0.02	0.01	0.017	0.13	9.2	5.4	0.56	247	0.50	0.02
FGL050 05+00N		0.89	14.1	2.00	5.06	<0.05	0.04	0.04	0.021	0.05	12.1	6.0	0.51	663	0.38	0.03
FGL050 05+50N		1.21	18.3	2.22	5.94	<0.05	0.04	0.04	0.026	0.05	15.2	7.7	0.60	701	0.43	0.02
FGL050 07+00N		0.85	34.9	2.10	5.32	<0.05	0.05	0.05	0.022	0.07	13.0	6.4	0.56	493	1.46	0.02
FGL050 07+50N		1.32	36.5	2.38	5.33	0.05	0.02	0.03	0.022	0.14	14.0	5.8	0.54	303	2.34	0.02
FGL050 08+00N		9.90	95.4	5.56	16.75	0.17	0.04	0.01	0.029	1.44	14.4	16.4	2.29	314	3.72	0.03
FGL051 00+00N		0.77	13.1	1.39	3.40	<0.05	<0.02	0.02	0.013	0.04	5.4	2.8	0.12	140	0.31	0.03
FGL051 00+50N		1.70	11.7	2.34	6.05	<0.05	<0.02	0.01	0.028	0.07	7.9	12.3	0.48	320	0.58	0.02
FGL051 01+00N		1.79	15.6	2.18	5.68	<0.05	<0.02	0.02	0.030	0.05	8.7	10.4	0.50	468	0.65	0.02
FGL051 02+50N		1.18	8.1	1.57	4.38	<0.05	<0.02	0.05	0.017	0.04	6.8	6.0	0.37	253	0.29	0.02
FGL051 04+00N		1.57	9.8	1.38	4.94	<0.05	<0.02	0.07	0.017	0.04	8.0	5.4	0.36	164	0.19	0.02
FGL051 04+50N		0.99	7.0	1.06	2.81	<0.05	<0.02	0.05	0.011	0.03	5.0	2.9	0.18	142	0.15	0.03
FGL051 05+00N		1.40	8.7	1.98	4.51	<0.05	<0.02	0.05	0.017	0.04	11.3	6.4	0.42	500	0.23	0.02
FGL051 05+50N		1.38	19.8	2.37	5.83	<0.05	0.04	0.06	0.024	0.04	14.2	9.0	0.68	589	0.32	0.02
FGL051 06+00N		2.12	29.1	2.68	5.76	<0.05	0.04	0.04	0.030	0.06	17.6	9.4	0.57	443	0.42	0.02
FGL051 06+50N		1.62	21.3	2.43	5.64	<0.05	<0.02	0.02	0.024	0.05	15.1	8.7	0.51	379	0.46	0.02
FGL051 07+00N		0.92	14.7	1.73	4.06	<0.05	<0.02	0.02	0.016	0.04	11.8	5.5	0.31	248	0.34	0.03
FGL051 07+50N		1.88	23.8	2.57	6.77	<0.05	0.02	0.01	0.018	0.09	9.4	8.3	0.39	165	1.28	0.02
FGL051 08+00N		1.77	20.3	2.70	8.05	<0.05	0.05	0.01	0.026	0.09	16.0	11.9	0.54	197	1.06	0.02
FGL052 00+00		2.08	10.1	1.71	5.36	<0.05	<0.02	0.01	0.024	0.05	6.4	7.7	0.34	227	1.78	0.02
FGL052 00+50S		2.55	11.0	2.39	6.06	<0.05	<0.02	0.02	0.019	0.07	9.5	15.4	0.39	193	1.52	0.02
FGL052 01+00S		1.46	19.8	2.40	5.50	<0.05	<0.02	0.06	0.022	0.06	7.3	9.9	0.35	377	0.66	0.02
FGL052 01+50S		2.03	22.7	2.54	5.50	<0.05	<0.02	0.02	0.027	0.06	16.4	7.4	0.44	446	0.46	0.02
FGL052 02+00S		1.92	16.0	1.93	4.59	<0.05	<0.02	0.02	0.018	0.04	7.9	6.6	0.27	562	0.46	0.01
FGL052 02+50S		1.94	12.0	2.16	4.42	<0.05	0.02	0.02	0.020	0.04	7.7	6.8	0.34	285	0.47	0.01
FGL052 03+00S		2.19	20.5	1.84	4.96	<0.05	<0.02	0.09	0.025	0.05	9.6	7.7	0.41	760	0.39	0.02
FGL052 03+50S		2.05	11.6	1.79	5.05	<0.05	<0.02	0.08	0.025	0.05	10.9	7.6	0.43	476	0.39	0.02
FGL052 04+00S		1.99	11.2	1.76	5.32	<0.05	<0.02	0.07	0.020	0.05	9.4	8.6	0.47	242	0.32	0.02
FGL052 04+50S		2.52	14.7	2.06	4.78	<0.05	<0.02	0.06	0.029	0.04	9.0	8.0	0.44	288	0.34	0.01
FGL052 05+00S		1.12	13.6	1.94	6.50	<0.05	<0.02	0.01	0.020	0.04	8.7	7.8	0.27	149	0.54	0.01
FGL052 05+50S		1.67	8.4	1.43	4.39	<0.05	<0.02	0.05	0.014	0.05	6.9	5.3	0.36	587	0.30	0.02
FGL052 06+00S		1.17	13.5	1.12	2.61	<0.05	<0.02	0.04	0.011	0.03	5.9	3.1	0.17	277	0.26	0.04
FGL052 07+00S		11.15	13.9	4.44	9.23	<0.05	0.02	0.01	0.089	0.12	8.6	16.1	0.76	1280	1.02	0.01
FGL052 07+50S		0.92	11.0	0.79	2.40	<0.05	<0.02	0.02	0.011	0.04	4.5	3.3	0.12	61	0.63	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL050 01+50N		1.25	9.5	790	8.6	11.5	<0.001	0.03	1.75	3.0	0.3	0.4	48.7	<0.01	0.15	0.9
FGL050 02+00N		1.46	12.8	450	9.1	12.5	<0.001	0.02	2.77	3.5	0.3	0.5	49.3	<0.01	0.11	1.3
FGL050 02+50N		0.87	9.7	750	6.0	13.7	<0.001	0.05	0.93	2.2	0.4	0.4	57.4	<0.01	0.14	0.2
FGL050 03+00N		0.69	9.7	510	8.8	12.0	<0.001	0.04	1.22	1.4	0.3	0.4	49.3	<0.01	0.13	<0.2
FGL050 03+50N		0.37	5.9	610	4.8	8.1	<0.001	0.07	0.58	0.6	0.4	0.2	48.6	<0.01	0.08	<0.2
FGL050 04+00N		0.85	7.0	640	5.3	10.2	<0.001	0.05	1.00	2.0	0.4	0.4	61.8	<0.01	0.08	0.4
FGL050 04+50N		0.99	7.3	910	9.9	15.2	<0.001	0.03	2.57	2.7	0.4	0.5	86.5	<0.01	0.14	0.9
FGL050 05+00N		1.72	9.1	930	20.4	5.4	<0.001	0.05	0.74	3.4	0.5	0.3	67.2	<0.01	0.04	1.3
FGL050 05+50N		0.78	11.5	990	16.4	7.6	<0.001	0.05	0.71	4.2	0.5	0.4	56.8	<0.01	0.05	1.4
FGL050 07+00N		1.10	10.3	1010	12.1	10.6	<0.001	0.07	0.71	3.9	0.6	0.5	88.1	<0.01	0.07	2.0
FGL050 07+50N		0.94	11.2	900	11.6	13.8	<0.001	0.04	0.85	4.4	0.5	0.5	63.6	<0.01	0.08	1.7
FGL050 08+00N		2.06	7.5	1790	6.9	109.0	<0.001	0.11	0.51	17.3	0.9	2.5	153.5	<0.01	0.10	3.8
FGL051 00+00N		0.32	5.3	510	4.7	4.3	<0.001	0.03	0.27	1.2	0.2	0.2	15.0	<0.01	0.02	<0.2
FGL051 00+50N		1.36	12.5	360	31.9	10.5	<0.001	0.02	0.86	3.0	0.2	0.5	32.9	<0.01	0.06	1.5
FGL051 01+00N		0.99	13.5	440	14.5	8.4	<0.001	0.03	1.21	3.0	0.3	0.5	45.2	<0.01	0.05	0.9
FGL051 02+50N		0.75	7.5	680	12.9	6.1	<0.001	0.06	0.71	2.1	0.5	0.3	40.1	<0.01	0.03	0.5
FGL051 04+00N		0.62	6.4	810	17.2	8.8	<0.001	0.06	0.68	2.0	0.3	0.3	35.1	<0.01	0.01	0.3
FGL051 04+50N		0.35	3.7	560	15.0	4.5	<0.001	0.04	0.40	1.3	0.2	0.2	18.9	<0.01	0.01	0.2
FGL051 05+00N		0.59	7.1	1220	15.6	6.5	<0.001	0.03	0.69	2.6	0.3	0.3	30.3	<0.01	0.01	1.3
FGL051 05+50N		0.82	11.9	1170	25.1	6.0	<0.001	0.06	0.99	4.4	0.6	0.3	61.7	<0.01	0.05	1.6
FGL051 06+00N		0.79	13.1	1000	52.4	6.6	<0.001	0.03	1.45	5.8	0.5	0.4	53.0	<0.01	0.07	3.3
FGL051 06+50N		0.81	11.0	1120	24.7	6.5	<0.001	0.03	0.86	4.1	0.5	0.4	53.3	<0.01	0.08	1.5
FGL051 07+00N		0.63	8.0	720	10.9	4.4	<0.001	0.03	0.61	2.4	0.4	0.3	32.4	<0.01	0.05	0.8
FGL051 07+50N		1.74	9.8	880	7.1	16.9	<0.001	0.02	0.43	3.1	0.3	0.6	21.4	<0.01	0.03	2.2
FGL051 08+00N		1.77	14.1	370	8.6	11.1	<0.001	0.02	0.57	5.6	0.5	0.8	30.1	0.01	0.03	5.3
FGL052 00+00		0.65	5.4	500	13.7	11.8	<0.001	0.04	0.60	1.9	0.3	0.5	14.9	<0.01	0.05	0.4
FGL052 00+50S		1.40	11.9	550	7.1	16.0	<0.001	0.03	0.42	2.6	0.3	0.5	16.2	<0.01	0.04	1.1
FGL052 01+00S		0.67	10.1	680	17.9	6.8	<0.001	0.02	0.58	2.2	0.3	0.4	27.5	<0.01	0.04	0.4
FGL052 01+50S		0.74	11.9	1120	34.5	6.4	<0.001	0.02	0.86	4.6	0.4	0.4	37.9	<0.01	0.04	1.8
FGL052 02+00S		0.42	8.0	1000	22.6	5.1	<0.001	0.03	0.84	1.5	0.3	0.3	18.4	<0.01	0.03	0.2
FGL052 02+50S		0.67	8.0	1020	26.9	4.9	<0.001	0.03	1.10	2.2	0.2	0.3	19.5	<0.01	0.04	0.8
FGL052 03+00S		0.63	9.6	790	35.1	9.8	<0.001	0.05	1.29	2.5	0.4	0.3	50.9	<0.01	0.03	0.4
FGL052 03+50S		0.66	8.2	910	28.2	9.7	<0.001	0.04	0.75	2.5	0.3	0.4	35.7	<0.01	0.03	0.5
FGL052 04+00S		0.70	8.9	790	16.9	7.8	<0.001	0.04	0.67	2.3	0.3	0.4	28.1	<0.01	0.02	0.4
FGL052 04+50S		0.59	8.0	920	22.5	6.0	<0.001	0.02	1.57	2.5	0.2	0.3	24.1	<0.01	0.03	1.0
FGL052 05+00S		1.31	7.1	270	17.9	6.4	<0.001	0.02	0.77	2.4	0.2	0.6	18.4	<0.01	0.03	1.3
FGL052 05+50S		0.56	5.6	770	12.2	7.3	<0.001	0.03	0.64	2.0	0.2	0.3	26.2	<0.01	0.01	0.5
FGL052 06+00S		0.38	4.8	610	5.2	3.1	<0.001	0.04	1.36	1.5	0.4	0.2	28.3	<0.01	0.01	0.3
FGL052 07+00S		1.01	15.3	370	14.1	17.0	<0.001	0.02	2.61	6.9	0.3	0.6	24.4	<0.01	0.07	2.4
FGL052 07+50S		0.31	6.9	360	6.5	3.5	0.001	0.03	0.29	0.8	<0.2	0.2	11.9	<0.01	0.02	<0.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL050 01+50N		0.091	0.22	0.36	52	0.15	3.65	49	0.5
FGL050 02+00N		0.110	0.18	0.38	67	0.14	3.47	57	0.7
FGL050 02+50N		0.084	0.15	0.44	50	0.11	2.71	54	<0.5
FGL050 03+00N		0.069	0.12	0.35	44	0.13	2.33	45	<0.5
FGL050 03+50N		0.022	0.07	0.62	19	0.06	3.07	24	<0.5
FGL050 04+00N		0.072	0.15	0.35	38	0.11	3.19	37	<0.5
FGL050 04+50N		0.087	0.20	0.40	52	0.14	4.34	44	<0.5
FGL050 06+00N		0.040	0.05	0.67	43	0.09	7.49	77	1.5
FGL050 06+50N		0.041	0.09	0.88	47	0.13	9.68	74	1.2
FGL050 07+00N		0.046	0.09	1.90	45	0.14	9.35	61	1.7
FGL050 07+50N		0.062	0.14	1.92	53	0.26	7.77	64	0.8
FGL050 08+00N		0.446	1.32	5.92	171	0.13	13.25	50	1.6
FGL051 00+00N		0.050	0.05	0.25	42	0.08	3.11	28	<0.5
FGL051 00+50N		0.067	0.12	0.33	57	0.19	2.98	68	0.7
FGL051 01+00N		0.055	0.11	0.39	53	0.14	4.22	65	<0.5
FGL051 02+50N		0.047	0.11	0.38	40	0.10	3.58	52	<0.5
FGL051 04+00N		0.039	0.09	0.33	29	0.33	3.39	89	<0.5
FGL051 04+50N		0.037	0.05	0.22	27	0.05	2.10	45	<0.5
FGL051 05+00N		0.059	0.06	0.41	53	0.17	4.71	79	<0.5
FGL051 05+50N		0.059	0.07	0.88	55	0.11	9.33	106	1.5
FGL051 06+00N		0.045	0.09	0.69	56	0.38	10.85	163	1.4
FGL051 06+50N		0.049	0.07	0.84	54	0.13	8.37	79	<0.5
FGL051 07+00N		0.049	0.06	0.50	43	0.10	8.66	46	<0.5
FGL051 07+50N		0.103	0.13	0.64	66	0.19	3.29	35	1.0
FGL051 08+00N		0.120	0.13	1.16	70	0.18	6.12	45	2.2
FGL052 00+00		0.045	0.11	0.34	47	0.23	3.22	34	<0.5
FGL052 00+50S		0.073	0.11	0.40	60	0.27	3.06	46	0.6
FGL052 01+00S		0.053	0.07	0.39	53	0.12	2.86	67	<0.5
FGL052 01+50S		0.054	0.08	0.62	55	0.12	6.00	97	<0.5
FGL052 02+00S		0.036	0.05	0.37	44	0.10	3.02	67	<0.5
FGL052 02+50S		0.036	0.06	0.40	46	0.11	3.02	73	0.5
FGL052 03+00S		0.035	0.09	0.46	40	0.14	4.69	100	<0.5
FGL052 03+50S		0.046	0.10	0.46	43	0.64	4.29	91	<0.5
FGL052 04+00S		0.051	0.09	0.37	41	0.14	3.73	90	<0.5
FGL052 04+50S		0.049	0.08	0.27	49	0.14	2.93	156	<0.5
FGL052 05+00S		0.071	0.10	0.32	59	0.12	2.36	57	0.5
FGL052 05+50S		0.044	0.07	0.22	35	0.07	2.37	64	<0.5
FGL052 06+00S		0.036	0.07	0.24	30	0.08	5.27	28	<0.5
FGL052 07+00S		0.044	0.33	0.32	90	0.26	4.13	161	0.8
FGL052 07+50S		0.025	0.05	0.21	20	0.07	2.11	20	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL052 08+00S		0.46	0.0047	0.08	1.12	105.0	<0.02	<10	190	0.38	1.19	0.24	0.11	23.0	6.0	16
FGL053 00+50S		0.39	0.0019	0.29	1.19	10.5	<0.02	<10	110	0.29	5.93	0.26	0.29	18.75	7.2	16
FGL053 01+00S		0.26	0.0022	0.17	0.45	11.9	<0.02	<10	70	0.13	0.98	0.14	0.17	9.92	1.8	5
FGL053 01+50S		0.13	0.0033	0.32	0.45	4.0	<0.02	<10	100	0.12	1.23	0.23	0.20	10.10	2.1	8
FGL053 02+50S		0.22	0.0019	0.19	0.99	6.0	<0.02	<10	200	0.17	0.79	0.28	0.18	16.85	7.9	16
FGL053 03+00S		0.41	0.0093	0.31	1.36	8.4	<0.02	<10	220	0.30	1.39	0.35	0.19	24.0	6.4	22
FGL053 03+50S		0.54	0.0039	0.42	1.46	6.7	<0.02	<10	250	0.34	2.49	0.32	0.18	22.6	6.6	23
FGL053 04+00S		0.87	0.0096	0.20	1.09	12.9	<0.02	<10	180	0.27	1.37	0.40	0.36	21.0	7.5	19
FGL053 04+50S		0.70	0.0034	0.33	1.41	15.1	<0.02	<10	230	0.26	3.93	0.25	0.20	18.60	11.6	21
FGL053 05+50S		0.61	0.0142	0.66	1.66	57.0	<0.02	<10	320	0.32	5.37	0.31	0.15	19.00	10.4	22
FGL053 06+00S		0.27	0.0023	0.35	1.18	15.4	<0.02	<10	220	0.18	1.30	0.29	0.06	15.45	4.9	17
FGL053 06+50S		0.65	0.0013	0.16	1.78	12.6	<0.02	<10	120	0.23	1.38	0.17	0.11	15.75	8.3	29
FGL053 07+00S		0.69	0.0034	0.32	1.94	11.5	<0.02	<10	200	0.41	1.57	0.20	0.06	17.80	6.9	29
FGL053 07+50S		0.69	0.0026	0.40	1.57	8.8	<0.02	<10	230	0.40	1.88	0.25	0.08	17.25	6.1	21
FGL053 08+00S		0.72	0.0022	0.13	1.69	14.4	<0.02	<10	290	0.42	1.30	0.29	0.05	19.80	7.1	24
FGL054 00+00		0.73	0.0023	0.07	1.72	10.8	<0.02	<10	290	0.36	0.36	0.29	0.07	20.2	7.5	28
FGL054 00+50N		0.70	0.0016	0.05	1.73	12.8	<0.02	<10	220	0.30	0.27	0.25	0.08	17.85	7.6	29
FGL054 01+00N		0.74	0.0117	0.18	1.65	9.7	<0.02	<10	210	0.33	0.28	0.22	0.06	18.95	6.5	26
FGL054 01+50N		0.55	0.0009	0.18	2.08	15.8	<0.02	<10	190	0.36	0.53	0.15	0.15	21.0	8.4	31
FGL054 02+00N		0.28	0.0055	0.80	2.04	12.1	<0.02	<10	640	0.78	2.58	0.45	0.19	28.6	6.1	23
FGL054 03+00N		0.54	0.0025	0.16	1.42	8.9	<0.02	<10	290	0.36	0.59	0.36	0.09	26.6	6.3	23
FGL054 04+00N		0.46	0.0029	0.36	1.23	11.2	<0.02	<10	360	0.31	0.99	0.33	0.19	29.4	7.2	21
FGL054 05+00N		0.16	0.0031	0.52	1.11	16.7	<0.02	<10	310	0.28	2.62	0.44	0.68	23.7	3.2	18
FGL054 06+50N		0.31	0.0020	0.26	1.34	10.4	<0.02	<10	270	0.28	1.41	0.50	0.44	22.6	5.7	24
FGL054 07+00N		0.50	0.0027	0.25	1.35	29.8	<0.02	<10	190	0.27	0.64	0.32	0.27	22.3	6.6	21
FGL054 07+50N		0.45	0.0028	0.21	1.12	8.6	<0.02	<10	100	0.18	0.50	0.21	0.13	12.80	5.1	17
FGL054 08+00N		0.86	0.0024	0.14	1.58	15.6	<0.02	<10	190	0.41	0.69	0.35	0.21	30.6	10.0	27
FGL055 00+00N		0.43	0.0006	0.11	1.10	6.9	<0.02	<10	250	0.20	1.66	0.23	0.10	14.90	4.6	19
FGL055 00+25N		0.38	0.0005	0.31	0.95	7.6	0.03	<10	260	0.20	0.99	0.20	0.11	12.95	4.2	16
FGL055 00+50N		0.50	0.0007	0.20	1.25	13.7	<0.02	<10	190	0.28	1.01	0.19	0.14	19.10	7.1	22
FGL055 00+75N		0.30	0.0007	0.55	1.00	3.4	<0.02	<10	210	0.32	0.62	0.18	0.19	17.95	2.9	10
FGL055 01+00N		0.43	0.0029	0.20	2.03	13.6	<0.02	<10	350	0.53	2.10	0.24	0.11	21.3	9.3	28
FGL055 01+25N		0.36	0.0006	0.11	0.91	5.5	<0.02	<10	240	0.22	0.87	0.20	0.09	12.30	4.3	12
FGL055 01+50N		0.35	0.0013	0.11	1.25	12.6	<0.02	<10	150	0.23	0.68	0.13	0.19	15.15	4.6	19
FGL055 01+75N		0.44	0.0019	0.25	0.99	11.1	<0.02	<10	250	0.27	1.48	0.24	0.18	16.10	5.4	15
FGL055 02+00N		0.29	0.0014	0.38	1.22	6.2	<0.02	<10	340	0.42	0.85	0.19	0.15	18.10	4.6	15
FGL055 02+25N		0.39	0.0049	0.75	1.40	29.3	<0.02	<10	770	0.45	1.81	0.43	0.49	32.8	8.4	22
FGL055 02+75N		0.57	0.0024	0.26	1.10	6.8	<0.02	<10	400	0.32	0.94	0.26	0.16	16.80	6.7	18
FGL055 03+25N		0.51	0.0024	0.38	1.27	17.5	<0.02	<10	360	0.35	1.78	0.38	0.23	27.9	8.5	22
FGL055 03+50N		0.54	0.0043	0.31	1.18	12.2	<0.02	<10	290	0.36	1.32	0.37	0.21	27.9	8.6	22

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL052 08+00S		2.31	11.7	2.04	4.28	<0.05	<0.02	0.02	0.028	0.05	12.0	7.4	0.33	340	0.64	0.01
FGL053 00+50S		1.74	13.0	1.82	5.11	<0.05	<0.02	0.04	0.022	0.03	9.6	6.2	0.40	244	0.44	0.01
FGL053 01+00S		1.96	8.2	0.75	2.26	<0.05	<0.02	0.03	0.015	0.03	5.1	1.5	0.10	106	0.23	0.02
FGL053 01+50S		1.61	10.4	0.72	2.09	<0.05	<0.02	0.05	0.012	0.03	5.3	1.5	0.08	98	0.27	0.02
FGL053 02+50S		1.72	10.9	1.36	3.88	<0.05	<0.02	0.04	0.017	0.04	8.7	6.4	0.30	545	0.41	0.01
FGL053 03+00S		2.27	15.8	1.72	5.07	<0.05	<0.02	0.06	0.027	0.05	12.0	8.8	0.41	291	0.38	0.01
FGL053 03+50S		2.32	24.0	1.83	4.90	<0.05	<0.02	0.05	0.029	0.05	11.4	9.3	0.41	220	0.34	0.01
FGL053 04+00S		2.26	16.2	1.96	4.18	<0.05	0.02	0.02	0.024	0.06	10.0	7.6	0.43	423	0.36	0.01
FGL053 04+50S		3.02	26.4	2.19	5.03	<0.05	<0.02	0.02	0.032	0.06	9.0	8.4	0.41	1240	0.64	0.01
FGL053 05+50S		5.20	58.1	2.48	5.65	<0.05	<0.02	0.04	0.050	0.07	9.7	9.6	0.42	415	0.93	0.01
FGL053 06+00S		3.37	36.5	1.90	4.73	<0.05	<0.02	0.02	0.029	0.04	8.7	7.0	0.40	231	0.57	0.01
FGL053 06+50S		1.61	29.4	2.76	7.75	<0.05	0.03	0.01	0.026	0.05	7.8	11.7	0.51	315	0.80	0.01
FGL053 07+00S		1.23	45.8	2.69	6.78	<0.05	0.03	0.02	0.028	0.06	9.1	10.7	0.47	213	0.86	0.01
FGL053 07+50S		1.31	36.5	2.02	5.14	<0.05	<0.02	0.02	0.020	0.04	8.7	8.6	0.38	209	0.50	0.02
FGL053 08+00S		2.60	27.9	2.54	5.98	<0.05	<0.02	0.01	0.026	0.04	10.3	10.5	0.51	258	0.65	0.01
FGL054 00+00		1.35	16.1	2.52	5.91	<0.05	0.03	0.01	0.025	0.07	10.1	12.1	0.55	243	0.63	0.01
FGL054 00+50N		1.34	14.5	2.79	6.43	<0.05	0.05	<0.01	0.024	0.07	8.6	13.9	0.57	246	0.72	0.01
FGL054 01+00N		1.25	13.7	2.28	6.45	<0.05	0.04	0.01	0.022	0.05	10.1	11.4	0.48	194	0.59	0.01
FGL054 01+50N		1.38	29.2	3.33	7.76	<0.05	0.03	0.01	0.029	0.06	10.4	19.0	0.47	214	0.98	0.01
FGL054 02+00N		4.29	191.0	2.21	6.36	<0.05	<0.02	0.05	0.037	0.08	15.2	7.1	0.27	328	0.72	0.02
FGL054 03+00N		2.07	27.2	1.94	4.78	<0.05	0.02	0.03	0.025	0.04	13.6	9.5	0.43	170	0.42	0.01
FGL054 04+00N		2.36	24.6	2.16	4.21	<0.05	<0.02	0.05	0.030	0.04	14.5	8.0	0.31	221	0.54	0.01
FGL054 06+00N		3.34	18.8	1.27	4.06	<0.05	0.02	0.07	0.024	0.04	13.4	6.7	0.32	205	0.22	0.02
FGL054 06+50N		2.11	17.6	1.57	4.93	<0.05	0.02	0.04	0.027	0.04	11.3	8.5	0.41	265	0.22	0.01
FGL054 07+00N		2.04	14.7	1.96	4.74	<0.05	<0.02	0.06	0.023	0.05	11.5	8.3	0.45	223	0.42	0.01
FGL054 07+50N		1.24	10.8	1.48	4.16	<0.05	<0.02	0.03	0.015	0.04	6.7	6.3	0.36	173	0.37	0.02
FGL054 08+00N		1.60	16.2	2.18	5.18	<0.05	0.02	0.03	0.022	0.05	15.3	9.9	0.59	267	0.45	0.01
FGL055 00+00N		1.21	10.4	1.67	4.44	<0.05	0.02	0.01	0.018	0.05	8.0	7.0	0.34	181	0.54	0.01
FGL055 00+25N		2.07	9.2	1.62	5.15	<0.05	<0.02	0.01	0.020	0.06	6.8	5.9	0.26	185	0.67	0.02
FGL055 00+50N		3.26	13.3	2.51	6.58	<0.05	0.02	0.01	0.023	0.07	8.9	8.6	0.37	328	0.72	0.01
FGL055 00+75N		3.03	27.9	1.11	4.29	<0.05	<0.02	0.01	0.014	0.04	11.5	3.6	0.11	104	0.40	0.02
FGL055 01+00N		3.86	15.4	2.65	6.23	<0.05	0.04	0.01	0.035	0.08	10.2	12.8	0.56	312	0.62	0.01
FGL055 01+25N		1.56	13.3	1.35	3.76	<0.05	<0.02	0.01	0.012	0.05	6.4	5.5	0.21	196	0.38	0.02
FGL055 01+50N		1.92	9.6	2.40	8.11	<0.05	<0.02	0.02	0.019	0.05	7.4	9.7	0.28	160	0.70	0.01
FGL055 01+75N		4.29	12.8	1.78	4.91	<0.05	<0.02	0.02	0.028	0.06	7.9	5.0	0.24	369	0.70	0.02
FGL055 02+00N		2.76	20.8	1.59	4.21	<0.05	<0.02	0.03	0.019	0.05	9.5	6.7	0.24	160	0.43	0.03
FGL055 02+25N		13.70	18.8	2.45	4.62	<0.05	0.02	0.05	0.051	0.08	18.6	10.9	0.43	735	0.40	0.02
FGL055 02+75N		3.08	14.3	1.61	3.88	<0.05	<0.02	0.03	0.021	0.05	9.6	6.7	0.30	335	0.50	0.02
FGL055 03+25N		5.85	11.3	2.09	4.36	<0.05	<0.02	0.03	0.033	0.05	14.2	10.0	0.44	356	0.41	0.01
FGL055 03+50N		3.87	15.6	1.92	4.03	<0.05	<0.02	0.03	0.028	0.05	14.1	9.2	0.43	302	0.45	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL052 08+00S		0.64	9.0	460	10.6	8.4	<0.001	0.02	1.61	2.5	0.3	0.3	21.1	<0.01	0.05	0.9
FGL053 00+50S		0.50	7.8	900	31.2	8.0	<0.001	0.05	0.70	1.4	0.4	0.3	22.6	<0.01	0.08	0.3
FGL053 01+00S		0.20	2.3	480	11.1	6.0	<0.001	0.04	0.78	0.4	0.2	0.2	16.2	<0.01	0.05	<0.2
FGL053 01+50S		0.29	3.7	620	9.5	5.1	<0.001	0.08	0.65	0.5	0.2	0.2	24.2	<0.01	0.03	<0.2
FGL053 02+50S		0.64	7.8	660	13.6	7.6	<0.001	0.04	0.56	1.7	0.3	0.3	28.9	<0.01	0.02	0.4
FGL053 03+00S		0.84	9.8	710	28.0	9.8	<0.001	0.04	0.81	2.7	0.3	0.4	31.8	<0.01	0.03	0.7
FGL053 03+50S		0.95	11.7	610	26.4	8.8	<0.001	0.04	0.83	3.0	0.4	0.4	30.2	<0.01	0.04	1.2
FGL053 04+00S		0.67	10.7	880	29.0	7.2	<0.001	0.02	1.35	2.8	0.2	0.3	28.8	<0.01	0.03	1.9
FGL053 04+50S		0.77	10.3	590	35.8	11.9	<0.001	0.03	0.99	2.5	0.2	0.4	24.8	<0.01	0.06	0.8
FGL053 05+50S		0.94	11.2	620	23.2	13.7	<0.001	0.04	3.21	3.0	0.4	0.5	45.8	<0.01	0.16	1.3
FGL053 06+00S		0.86	8.9	520	10.2	6.5	<0.001	0.02	2.16	2.5	0.3	0.4	23.0	<0.01	0.05	1.4
FGL053 06+50S		1.66	13.8	300	10.7	7.8	<0.001	0.02	0.81	3.0	0.2	0.6	17.1	<0.01	0.04	1.6
FGL053 07+00S		1.40	15.0	320	11.0	8.1	<0.001	0.02	0.54	3.5	0.3	0.6	21.2	<0.01	0.03	1.9
FGL053 07+50S		0.86	11.7	260	9.9	6.5	<0.001	0.02	0.85	2.6	0.3	0.4	23.5	<0.01	0.04	0.7
FGL053 08+00S		0.97	13.3	250	8.5	5.8	<0.001	0.02	0.89	3.5	0.3	0.5	22.6	<0.01	0.05	1.4
FGL054 00+00		1.22	17.8	370	8.5	7.8	<0.001	0.02	0.61	3.7	0.3	0.5	24.2	<0.01	0.04	1.8
FGL054 00+50N		1.37	17.1	360	8.6	8.2	<0.001	0.02	0.63	3.6	0.3	0.5	20.6	<0.01	0.05	2.0
FGL054 01+00N		1.41	13.6	250	9.8	7.5	<0.001	0.02	0.47	3.5	0.2	0.6	17.8	<0.01	0.02	2.3
FGL054 01+50N		1.59	17.7	400	11.3	9.2	<0.001	0.02	0.52	3.3	0.3	0.7	19.1	<0.01	0.04	2.3
FGL054 02+00N		0.69	12.8	690	24.9	11.4	<0.001	0.04	0.85	2.6	0.7	0.5	39.4	<0.01	0.07	0.2
FGL054 03+00N		1.03	12.4	850	11.7	6.8	<0.001	0.03	1.12	3.3	0.4	0.4	27.2	<0.01	0.04	2.1
FGL054 04+00N		0.86	9.8	920	14.3	7.7	<0.001	0.05	1.21	2.9	0.5	0.4	29.7	<0.01	0.05	0.9
FGL054 06+00N		0.65	9.5	720	14.9	13.2	<0.001	0.06	2.49	2.1	0.6	0.3	47.0	<0.01	0.04	0.5
FGL054 06+50N		0.90	11.1	650	33.7	8.3	<0.001	0.07	1.04	3.0	0.4	0.4	42.6	<0.01	0.04	1.0
FGL054 07+00N		0.84	10.4	820	31.3	8.6	<0.001	0.04	0.78	2.7	0.4	0.4	26.1	<0.01	0.06	0.8
FGL054 07+50N		0.56	8.2	530	15.6	6.7	<0.001	0.04	0.43	1.5	0.3	0.3	20.1	<0.01	0.06	0.2
FGL054 08+00N		1.07	14.7	830	21.0	8.2	<0.001	0.02	0.73	3.8	0.4	0.4	27.2	<0.01	0.06	2.4
FGL055 00+00N		1.03	10.1	270	6.9	7.9	<0.001	0.02	0.50	2.1	0.2	0.4	21.0	<0.01	0.06	1.1
FGL055 00+25N		1.03	8.6	280	9.7	12.5	<0.001	0.03	0.80	1.8	0.2	0.4	20.3	<0.01	0.07	0.8
FGL055 00+50N		1.29	10.9	540	12.1	11.2	<0.001	0.02	1.30	2.7	0.2	0.5	21.5	<0.01	0.09	1.3
FGL055 00+75N		0.79	5.9	300	7.6	8.8	<0.001	0.02	0.37	1.6	0.3	0.4	22.6	<0.01	0.04	0.6
FGL055 01+00N		1.43	17.5	330	15.2	10.2	<0.001	0.02	1.52	3.6	0.3	0.5	24.2	<0.01	0.13	2.7
FGL055 01+25N		0.75	6.7	420	6.1	8.1	<0.001	0.02	0.66	1.4	0.2	0.3	21.4	<0.01	0.07	0.6
FGL055 01+50N		1.19	8.7	510	9.8	11.7	<0.001	0.03	1.18	1.9	0.2	0.6	14.1	<0.01	0.06	0.5
FGL055 01+75N		0.44	7.3	630	15.7	11.1	<0.001	0.03	2.40	1.3	0.3	0.4	20.9	<0.01	0.20	<0.2
FGL055 02+00N		0.50	9.6	470	10.7	7.2	<0.001	0.04	0.52	1.4	0.4	0.3	21.4	<0.01	0.10	<0.2
FGL055 02+25N		0.88	13.4	710	59.2	11.2	<0.001	0.04	2.48	3.9	0.7	0.4	41.8	<0.01	0.10	1.8
FGL055 02+75N		0.52	10.4	570	10.7	6.4	<0.001	0.04	1.09	1.6	0.5	0.3	24.4	<0.01	0.07	0.2
FGL055 03+25N		0.95	11.7	630	21.4	8.6	<0.001	0.03	1.85	3.2	0.5	0.4	28.1	<0.01	0.11	1.6
FGL055 03+50N		0.99	13.3	820	15.8	8.3	<0.001	0.03	1.56	3.2	0.5	0.4	27.8	<0.01	0.10	1.9

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL052 08+00S		0.031	0.18	0.35	41	0.21	6.18	55	<0.5
FGL053 00+50S		0.023	0.10	0.70	41	0.13	4.20	69	<0.5
FGL053 01+00S		0.010	0.09	0.33	14	0.10	1.93	28	<0.5
FGL053 01+50S		0.016	0.07	0.39	13	0.06	2.34	27	<0.5
FGL053 02+50S		0.035	0.11	0.42	33	0.26	3.76	55	<0.5
FGL053 03+00S		0.041	0.12	0.50	42	0.14	4.96	78	<0.5
FGL053 03+50S		0.043	0.13	0.59	42	0.17	5.00	76	<0.5
FGL053 04+00S		0.059	0.08	0.38	44	0.15	4.52	101	0.6
FGL053 04+50S		0.044	0.12	0.47	48	0.25	3.65	106	<0.5
FGL053 05+50S		0.037	0.22	0.42	49	2.45	3.88	82	<0.5
FGL053 06+00S		0.051	0.12	0.31	45	0.23	3.82	44	<0.5
FGL053 06+50S		0.095	0.09	0.32	74	0.19	2.44	47	1.1
FGL053 07+00S		0.079	0.11	0.43	63	0.16	3.87	42	1.2
FGL053 07+50S		0.056	0.08	0.41	46	0.13	5.55	40	<0.5
FGL053 08+00S		0.061	0.09	0.41	57	0.12	5.89	46	0.5
FGL054 00+00		0.071	0.08	0.40	57	0.19	4.97	48	1.1
FGL054 00+50N		0.088	0.08	0.34	66	0.16	3.72	50	1.9
FGL054 01+00N		0.084	0.10	0.40	59	0.14	3.99	41	1.6
FGL054 01+50N		0.084	0.10	0.43	76	0.21	3.26	46	1.5
FGL054 02+00N		0.033	0.09	0.73	47	0.15	12.90	49	<0.5
FGL054 03+00N		0.048	0.11	0.70	48	0.14	7.00	54	0.8
FGL054 04+00N		0.026	0.14	0.67	42	0.19	7.36	55	<0.5
FGL054 06+00N		0.023	0.13	0.58	22	0.12	8.64	91	0.6
FGL054 06+50N		0.041	0.14	0.71	36	0.14	5.43	98	0.5
FGL054 07+00N		0.045	0.15	0.78	45	0.13	4.90	83	<0.5
FGL054 07+50N		0.040	0.08	0.41	33	0.11	2.77	51	<0.5
FGL054 08+00N		0.066	0.13	0.85	47	0.17	7.42	76	0.7
FGL055 00+00N		0.058	0.07	0.32	42	0.14	3.13	41	0.5
FGL055 00+25N		0.058	0.09	0.28	46	0.15	2.40	39	0.5
FGL055 00+50N		0.069	0.10	0.35	64	0.16	3.56	54	0.7
FGL055 00+75N		0.042	0.06	0.37	30	0.10	5.26	27	0.6
FGL055 01+00N		0.063	0.11	0.40	57	0.20	4.25	61	1.7
FGL055 01+25N		0.045	0.05	0.25	34	0.12	2.62	29	<0.5
FGL055 01+50N		0.067	0.09	0.31	68	0.22	2.03	45	0.6
FGL055 01+75N		0.034	0.09	0.31	45	0.16	3.97	52	<0.5
FGL055 02+00N		0.039	0.07	0.47	40	0.10	6.71	42	<0.5
FGL055 02+25N		0.039	0.17	0.53	48	0.22	10.20	147	0.5
FGL055 02+75N		0.034	0.07	0.48	38	0.14	6.06	44	<0.5
FGL055 03+25N		0.043	0.18	0.42	46	0.28	7.20	88	<0.5
FGL055 03+50N		0.051	0.14	0.58	41	0.29	7.28	73	0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL055 03+75N		0.48	0.0022	0.45	0.84	9.4	<0.02	<10	170	0.17	1.90	0.22	0.13	13.80	4.6	13
FGL055 04+00N		0.37	0.0036	0.39	1.35	11.3	<0.02	<10	230	0.23	1.63	0.30	0.20	19.85	5.7	23
FGL055 04+25N		0.46	0.0035	0.27	1.49	13.4	<0.02	<10	220	0.26	1.47	0.35	0.13	21.1	6.7	25
FGL055 04+50N		0.62	0.0025	0.31	1.28	19.8	<0.02	<10	210	0.25	1.59	0.39	0.13	17.10	6.9	22
FGL055 04+75N		0.29	0.0123	1.56	1.10	36.5	<0.02	<10	330	0.27	16.95	0.36	0.46	17.10	11.8	15
FGL055 05+00N		0.39	0.0032	0.51	1.07	36.4	<0.02	<10	290	0.14	1.99	0.30	0.21	14.95	5.6	17
FGL055 05+25N		0.56	0.0033	0.20	1.23	18.4	<0.02	<10	160	0.22	1.45	0.29	0.15	15.05	6.3	19
FGL055 05+50N		0.49	0.0031	0.29	1.63	21.8	<0.02	<10	280	0.34	1.25	0.38	0.28	23.0	8.7	28
FGL055 05+75N		0.37	0.0018	0.22	0.93	15.1	<0.02	<10	140	0.17	0.77	0.21	0.25	13.00	6.7	15
FGL055 06+00N		0.30	0.0030	0.40	1.24	26.6	<0.02	<10	170	0.18	1.13	0.23	0.28	14.55	4.6	20
FGL055 06+25N		0.33	0.0026	0.40	1.30	14.8	<0.02	<10	160	0.25	0.66	0.25	0.26	15.80	6.6	21
FGL055 06+50N		0.62	0.0028	0.27	1.64	14.9	<0.02	<10	180	0.35	0.62	0.33	0.20	22.8	10.2	26
FGL055 06+75N		0.44	0.0045	0.23	1.36	11.1	<0.02	<10	110	0.25	0.52	0.26	0.17	15.45	5.1	21
FGL055 07+00N		0.49	0.0039	0.20	1.24	8.7	<0.02	<10	100	0.23	0.64	0.29	0.18	16.50	5.1	21
FGL055 07+25N		0.58	0.0097	0.20	1.32	9.5	<0.02	<10	110	0.22	0.71	0.33	0.19	16.90	6.8	22
FGL055 07+50N		0.28	0.0027	0.33	1.11	10.7	<0.02	<10	110	0.25	0.77	0.22	0.29	12.80	4.7	18
FGL055 07+75N		0.30	0.0053	0.46	1.26	9.2	<0.02	<10	160	0.23	0.59	0.26	0.76	17.10	4.9	20
FGL056 00+00		0.39	0.0008	0.33	0.95	5.9	<0.02	<10	200	0.20	0.51	0.11	0.38	13.65	3.6	16
FGL056 00+25N		0.59	0.0070	0.75	1.92	13.1	<0.02	<10	310	0.46	0.81	0.18	0.22	19.70	7.5	28
FGL056 00+50N		0.54	0.0018	0.23	1.76	9.9	<0.02	<10	320	0.41	0.32	0.18	0.28	20.7	7.8	29
FGL056 00+75N		0.40	0.0012	0.26	1.39	9.2	<0.02	<10	260	0.34	0.41	0.18	0.26	18.15	5.2	21
FGL056 01+00N		0.45	0.0020	0.30	1.96	11.1	<0.02	<10	330	0.45	0.78	0.24	0.28	19.85	9.5	28
FGL056 01+25N		0.71	0.0022	0.17	1.36	21.6	<0.02	<10	140	0.27	0.36	0.22	0.20	18.65	7.3	23
FGL056 01+50N		0.56	0.0029	0.60	2.39	14.1	<0.02	<10	180	0.56	0.88	0.15	0.27	21.6	10.6	32
FGL056 01+75N		0.83	0.0041	0.43	2.02	21.7	<0.02	<10	480	0.59	2.61	0.25	0.27	27.0	10.9	29
FGL056 020+00N		0.54	0.0025	0.36	2.64	14.8	<0.02	<10	370	0.73	0.47	0.18	0.41	26.3	11.3	36
FGL056 02+50N		0.27	0.0035	0.31	1.24	12.0	<0.02	<10	150	0.34	3.10	0.24	0.30	16.10	7.5	19
FGL056 02+75N		0.42	0.0038	1.18	1.53	11.5	<0.02	<10	210	0.44	4.54	0.19	0.48	16.45	7.4	21
FGL056 03+00N		0.63	0.0051	1.22	1.45	25.6	<0.02	<10	310	0.51	4.10	0.33	0.68	31.5	9.1	22
FGL056 03+50N		0.49	0.0020	0.34	1.18	9.8	<0.02	<10	230	0.29	1.20	0.31	0.21	20.3	6.7	20
FGL056 03+75N		0.84	0.0065	0.90	1.53	13.6	<0.02	<10	290	0.32	6.18	0.48	0.21	25.9	7.2	28
FGL056 04+25N		0.23	0.0059	1.47	1.22	76.6	<0.02	<10	630	0.21	26.7	0.84	0.36	17.40	7.0	22
FGL056 05+00N		0.34	0.0027	0.18	1.35	13.8	<0.02	<10	270	0.27	0.82	0.40	0.22	18.50	4.8	22
FGL056 05+50N		0.40	0.0065	0.25	0.85	8.1	<0.02	<10	170	0.19	0.42	0.25	0.32	13.15	5.5	15
FGL056 05+75N		0.41	0.0041	0.29	1.38	21.4	<0.02	<10	240	0.30	0.60	0.28	0.41	19.65	5.6	23
FGL056 06+00N		0.52	0.0033	0.18	1.16	7.0	<0.02	<10	160	0.22	0.36	0.22	0.19	15.95	4.7	19
FGL056 06+25N		0.38	0.0034	0.24	0.97	7.4	<0.02	<10	130	0.26	0.37	0.18	0.19	11.05	9.1	13
FGL056 06+75N		0.22	0.0006	0.11	0.65	2.6	<0.02	<10	50	0.14	0.17	0.07	0.11	6.37	1.7	6
FGL056 07+00N		0.43	0.0040	0.28	1.17	10.1	<0.02	<10	130	0.31	0.53	0.15	0.42	11.50	4.4	14
FGL056 07+50N		0.77	0.0036	0.16	1.24	6.3	<0.02	<10	150	0.32	0.38	0.37	0.61	22.2	5.9	21

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL055 03+75N		2.40	8.9	1.32	3.28	<0.05	<0.02	0.04	0.017	0.04	7.2	5.3	0.23	307	0.35	0.02	
FGL055 04+00N		3.05	12.9	1.68	4.93	<0.05	<0.02	0.05	0.026	0.04	10.1	8.6	0.37	192	0.41	0.01	
FGL055 04+25N		3.82	15.5	1.93	4.92	<0.05	0.02	0.05	0.029	0.05	10.7	10.9	0.43	303	0.36	0.01	
FGL055 04+50N		3.44	12.7	2.05	4.30	<0.05	0.02	0.04	0.024	0.05	9.3	9.4	0.44	270	0.50	0.01	
FGL055 04+75N		4.51	17.5	1.67	3.86	<0.05	0.03	0.06	0.029	0.03	9.1	6.7	0.26	1180	0.50	0.02	
FGL055 05+00N		4.86	9.8	1.73	4.35	<0.05	<0.02	0.05	0.024	0.04	7.8	7.6	0.35	513	0.43	0.01	
FGL055 05+25N		2.81	12.8	1.75	4.71	<0.05	0.02	0.04	0.021	0.04	8.0	9.0	0.39	438	0.43	0.02	
FGL055 05+50N		2.47	16.2	2.38	5.55	<0.05	0.02	0.04	0.030	0.05	11.9	11.1	0.49	497	0.73	0.01	
FGL055 05+75N		1.82	10.2	1.48	3.53	<0.05	<0.02	0.03	0.017	0.04	6.7	5.7	0.25	329	0.46	0.02	
FGL055 06+00N		2.23	15.2	1.73	4.37	<0.05	<0.02	0.05	0.020	0.04	7.8	7.1	0.33	134	0.54	0.02	
FGL055 06+25N		1.84	18.8	1.97	4.66	<0.05	<0.02	0.04	0.019	0.05	8.1	7.8	0.38	228	0.69	0.02	
FGL055 06+50N		1.89	16.0	2.41	5.80	<0.05	<0.02	0.02	0.024	0.06	11.8	12.0	0.57	338	0.69	0.01	
FGL055 06+75N		1.48	12.0	1.76	4.98	<0.05	<0.02	0.03	0.016	0.05	8.4	8.0	0.45	162	0.32	0.01	
FGL055 07+00N		1.39	12.0	1.71	4.57	<0.05	<0.02	0.03	0.017	0.05	9.0	8.0	0.44	164	0.34	0.01	
FGL055 07+25N		1.58	10.1	1.80	5.02	<0.05	<0.02	0.03	0.018	0.05	9.0	8.9	0.53	219	0.41	0.01	
FGL055 07+50N		1.46	13.3	1.62	4.31	<0.05	<0.02	0.04	0.015	0.04	7.1	6.3	0.36	151	0.44	0.01	
FGL055 07+75N		1.43	17.1	1.58	4.72	<0.05	<0.02	0.05	0.017	0.04	9.2	7.3	0.38	183	0.37	0.02	
FGL056 00+00		1.18	14.4	1.61	5.82	<0.05	0.02	0.01	0.015	0.05	7.1	5.3	0.21	120	0.62	0.01	
FGL056 00+25N		1.57	16.7	2.67	6.26	<0.05	0.04	0.03	0.028	0.07	10.2	14.0	0.44	197	0.79	0.01	
FGL056 00+50N		1.47	14.5	2.48	6.59	<0.05	0.04	0.01	0.025	0.07	10.3	12.0	0.43	293	0.74	0.01	
FGL056 00+75N		1.36	19.3	2.14	6.49	<0.05	0.02	0.01	0.018	0.06	9.3	9.5	0.29	228	0.74	0.01	
FGL056 01+00N		2.91	16.3	2.69	6.32	<0.05	0.02	0.02	0.030	0.07	10.1	13.9	0.44	367	0.81	0.02	
FGL056 01+25N		4.17	12.8	3.10	6.84	<0.05	0.02	0.02	0.046	0.06	8.7	11.0	0.35	362	0.94	0.01	
FGL056 01+50N		3.91	23.2	2.82	5.69	<0.05	0.06	0.03	0.035	0.07	10.3	15.5	0.54	260	0.70	0.01	
FGL056 01+75N		6.58	16.4	3.06	6.54	<0.05	0.02	0.02	0.066	0.06	12.7	11.9	0.53	412	0.89	0.01	
FGL056 020+00N		4.66	15.5	3.48	7.19	<0.05	0.08	0.03	0.037	0.07	14.5	18.9	0.53	309	0.81	0.01	
FGL056 02+50N		5.54	12.6	2.12	4.45	<0.05	<0.02	0.01	0.027	0.06	8.3	9.1	0.37	317	0.53	0.01	
FGL056 02+75N		6.17	15.3	2.02	5.29	<0.05	<0.02	0.03	0.030	0.06	7.8	9.5	0.32	358	0.66	0.02	
FGL056 03+00N		10.15	18.3	2.11	4.81	<0.05	0.02	0.05	0.037	0.07	16.8	11.2	0.40	397	0.53	0.01	
FGL056 03+50N		3.16	12.9	1.95	4.52	<0.05	<0.02	0.03	0.025	0.04	10.4	7.9	0.38	213	0.47	0.01	
FGL056 03+75N		4.62	15.1	2.05	5.07	<0.05	0.02	0.06	0.032	0.05	13.4	11.4	0.49	288	0.43	0.01	
FGL056 04+25N		8.24	31.1	1.96	4.23	<0.05	0.04	0.10	0.046	0.04	10.2	6.6	0.34	1190	1.11	0.02	
FGL056 05+00N		2.47	14.3	1.64	4.48	<0.05	0.02	0.04	0.026	0.04	9.3	9.2	0.43	206	0.18	0.02	
FGL056 05+50N		1.03	11.0	1.74	3.59	<0.05	<0.02	0.03	0.015	0.03	6.6	5.1	0.25	166	0.23	0.02	
FGL056 05+75N		1.73	23.8	1.89	4.85	<0.05	<0.02	0.04	0.020	0.05	10.3	8.3	0.37	138	0.35	0.01	
FGL056 06+00N		1.29	15.3	1.65	4.27	<0.05	<0.02	0.03	0.016	0.04	8.2	7.1	0.31	145	0.34	0.02	
FGL056 06+25N		1.50	15.5	1.27	3.51	<0.05	<0.02	0.03	0.012	0.04	5.3	4.8	0.24	379	0.36	0.03	
FGL056 06+75N		0.91	6.6	0.59	2.26	<0.05	<0.02	0.02	0.007	0.03	3.1	2.4	0.10	70	0.07	0.02	
FGL056 07+00N		1.60	15.6	1.37	4.17	<0.05	<0.02	0.03	0.016	0.05	6.0	6.7	0.27	151	0.35	0.02	
FGL056 07+50N		1.36	14.8	1.65	4.32	<0.05	0.02	0.03	0.019	0.05	11.4	8.6	0.51	188	0.08	0.02	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL055 03+75N		0.59	6.3	600	13.1	6.3	<0.001	0.04	1.34	1.5	0.2	0.3	18.3	<0.01	0.05	0.4	
FGL055 04+00N		0.91	10.5	890	17.2	7.0	<0.001	0.06	0.91	2.3	0.4	0.4	25.0	<0.01	0.06	0.5	
FGL055 04+25N		1.12	12.0	880	24.2	8.1	<0.001	0.06	0.98	3.0	0.4	0.4	28.1	<0.01	0.06	1.3	
FGL055 04+50N		1.02	11.5	770	22.8	8.1	<0.001	0.04	1.37	2.8	0.4	0.3	31.8	<0.01	0.06	1.7	
FGL055 04+75N		0.63	7.7	830	26.9	6.6	<0.001	0.08	3.04	1.8	0.6	0.3	35.4	<0.01	0.12	0.6	
FGL055 05+00N		0.63	6.7	880	20.4	8.2	<0.001	0.07	3.20	1.9	0.4	0.3	26.4	<0.01	0.04	0.5	
FGL055 05+25N		0.78	8.8	800	16.9	7.7	<0.001	0.06	3.25	2.3	0.3	0.3	23.1	<0.01	0.04	0.8	
FGL055 05+50N		1.09	12.8	960	25.8	9.1	<0.001	0.06	1.26	3.4	0.5	0.4	27.0	<0.01	0.06	1.5	
FGL055 05+75N		0.56	7.0	650	18.4	6.7	<0.001	0.05	0.60	1.5	0.3	0.3	16.3	<0.01	0.04	0.2	
FGL055 06+00N		0.63	8.9	720	24.1	8.8	<0.001	0.06	0.59	1.4	0.3	0.3	18.9	<0.01	0.05	<0.2	
FGL055 06+25N		0.66	10.1	800	26.5	8.3	<0.001	0.06	0.69	1.5	0.5	0.3	20.3	<0.01	0.07	<0.2	
FGL055 06+50N		1.17	14.7	780	29.2	9.5	<0.001	0.03	0.70	3.1	0.4	0.4	24.2	<0.01	0.06	1.2	
FGL055 06+75N		0.80	9.8	640	19.6	7.7	<0.001	0.04	0.41	1.9	0.3	0.3	22.9	<0.01	0.05	0.3	
FGL055 07+00N		0.94	9.6	740	21.1	7.0	<0.001	0.04	0.46	2.3	0.4	0.3	23.8	<0.01	0.05	0.7	
FGL055 07+25N		0.92	10.7	790	20.1	6.9	<0.001	0.04	0.57	2.3	0.4	0.4	28.0	<0.01	0.07	0.8	
FGL055 07+50N		0.56	8.1	660	31.5	6.3	<0.001	0.06	0.45	1.2	0.4	0.3	23.6	<0.01	0.07	<0.2	
FGL055 07+75N		0.79	8.7	720	52.0	6.7	<0.001	0.07	0.45	2.1	0.4	0.3	25.3	<0.01	0.05	0.3	
FGL056 00+00		1.41	7.3	220	7.4	9.5	<0.001	0.03	0.32	1.9	0.2	0.5	14.1	<0.01	0.05	1.1	
FGL056 00+25N		1.68	16.5	350	13.8	8.7	<0.001	0.03	0.54	3.6	0.4	0.5	18.7	<0.01	0.07	2.5	
FGL056 00+50N		1.80	14.1	350	10.4	10.6	<0.001	0.03	0.36	3.6	0.3	0.6	17.9	<0.01	0.04	2.6	
FGL056 00+75N		1.60	9.9	370	8.7	9.7	<0.001	0.03	0.39	2.3	0.3	0.5	22.6	<0.01	0.04	1.4	
FGL056 01+00N		1.59	16.0	650	11.0	11.5	<0.001	0.03	0.67	3.1	0.3	0.5	24.5	<0.01	0.07	1.7	
FGL056 01+25N		1.56	11.0	560	17.7	12.7	<0.001	0.03	1.66	2.9	0.3	0.5	22.8	<0.01	0.77	1.9	
FGL056 01+50N		1.75	21.2	340	11.2	8.8	<0.001	0.03	1.17	4.0	0.5	0.5	15.2	0.01	0.14	3.1	
FGL056 01+75N		1.42	16.3	360	34.9	8.7	<0.001	0.03	2.57	3.9	0.6	0.6	23.8	<0.01	0.47	2.6	
FGL056 020+00N		2.20	20.9	380	14.0	10.3	<0.001	0.03	0.88	4.4	0.5	0.6	18.3	0.01	0.07	3.6	
FGL056 02+50N		0.86	11.9	650	24.0	8.1	<0.001	0.03	1.46	2.0	0.3	0.4	19.0	<0.01	0.26	0.6	
FGL056 02+75N		0.95	11.5	640	54.0	9.4	<0.001	0.04	0.95	1.9	0.3	0.4	19.7	<0.01	0.31	0.4	
FGL056 03+00N		0.98	13.9	860	51.3	9.6	<0.001	0.04	1.46	3.3	0.8	0.4	29.2	<0.01	0.34	1.2	
FGL056 03+50N		0.87	11.0	820	20.2	7.1	<0.001	0.04	1.14	2.8	0.5	0.4	22.2	<0.01	0.08	1.1	
FGL056 03+75N		1.16	14.0	920	36.0	8.1	<0.001	0.05	1.76	3.6	0.5	0.4	41.7	<0.01	0.09	1.8	
FGL056 04+25N		0.63	13.3	900	50.3	8.4	0.001	0.10	3.41	3.0	0.8	0.3	58.7	<0.01	0.12	1.1	
FGL056 05+00N		0.84	10.6	580	19.6	6.8	<0.001	0.06	2.07	2.8	0.4	0.3	31.4	<0.01	0.04	1.4	
FGL056 05+50N		0.52	7.5	720	26.1	4.5	<0.001	0.03	0.52	1.7	0.4	0.2	17.4	<0.01	0.03	0.5	
FGL056 05+75N		0.75	11.2	790	34.0	8.1	<0.001	0.03	0.63	2.1	0.4	0.4	21.9	<0.01	0.05	0.4	
FGL056 06+00N		0.52	9.4	600	17.8	6.9	<0.001	0.02	0.37	1.2	0.3	0.3	18.0	<0.01	0.03	0.2	
FGL056 06+25N		0.34	7.0	480	28.4	6.7	<0.001	0.04	0.41	0.9	0.3	0.2	18.0	<0.01	0.05	<0.2	
FGL056 06+75N		0.33	3.0	300	12.2	3.8	<0.001	0.02	0.17	0.4	<0.2	0.2	8.8	<0.01	0.02	<0.2	
FGL056 07+00N		0.51	8.2	460	32.0	8.2	<0.001	0.03	0.49	1.1	0.3	0.3	16.9	<0.01	0.05	<0.2	
FGL056 07+50N		0.95	11.6	700	47.6	6.6	<0.001	0.01	0.65	3.2	0.5	0.3	24.0	<0.01	0.05	2.2	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL055 03+75N		0.035	0.11	0.31	33	0.25	3.18	49	<0.5
FGL055 04+00N		0.038	0.15	0.54	39	0.19	4.78	70	<0.5
FGL055 04+25N		0.046	0.17	0.49	45	0.31	5.21	75	0.7
FGL055 04+50N		0.046	0.13	0.42	43	0.73	4.73	78	0.8
FGL055 04+75N		0.023	0.19	0.40	31	0.64	5.58	77	1.0
FGL055 05+00N		0.027	0.19	0.35	39	0.39	3.58	83	<0.5
FGL055 05+25N		0.036	0.15	0.47	41	0.12	3.64	74	0.5
FGL055 05+50N		0.040	0.17	0.75	54	0.23	5.66	91	0.7
FGL055 05+75N		0.034	0.13	0.46	37	0.17	3.17	62	<0.5
FGL055 06+00N		0.030	0.18	0.53	36	0.13	3.41	75	<0.5
FGL055 06+25N		0.037	0.11	0.55	44	0.14	3.66	74	<0.5
FGL055 06+50N		0.060	0.13	0.61	52	0.25	5.05	94	<0.5
FGL055 06+75N		0.051	0.10	0.50	40	0.10	3.59	62	<0.5
FGL055 07+00N		0.055	0.09	0.51	40	0.12	4.10	65	<0.5
FGL055 07+25N		0.055	0.09	0.48	41	0.21	4.03	73	<0.5
FGL055 07+50N		0.033	0.09	0.47	35	0.09	3.11	68	<0.5
FGL055 07+75N		0.039	0.11	0.60	36	0.19	5.22	98	<0.5
FGL056 00+00		0.072	0.08	0.34	52	0.16	2.10	33	0.6
FGL056 00+25N		0.068	0.10	0.44	60	0.17	4.70	57	1.7
FGL056 00+50N		0.085	0.10	0.49	61	0.16	4.03	56	1.7
FGL056 00+75N		0.070	0.07	0.41	58	0.22	2.75	41	0.9
FGL056 01+00N		0.063	0.11	0.44	61	0.18	3.90	64	0.7
FGL056 01+25N		0.053	0.14	0.35	73	0.18	2.82	64	0.8
FGL056 01+50N		0.067	0.11	0.45	58	0.19	3.87	57	2.3
FGL056 01+75N		0.056	0.13	0.50	63	0.16	6.05	105	0.9
FGL056 020+00N		0.084	0.11	0.51	71	0.21	7.11	74	3.3
FGL056 02+50N		0.050	0.08	0.33	47	0.12	3.63	82	<0.5
FGL056 02+75N		0.038	0.09	0.39	45	0.15	3.75	114	<0.5
FGL056 03+00N		0.040	0.16	0.68	44	0.16	10.35	153	0.5
FGL056 03+50N		0.046	0.11	0.52	49	0.17	5.62	70	<0.5
FGL056 03+75N		0.049	0.15	0.61	47	0.29	7.22	80	0.7
FGL056 04+25N		0.019	0.33	0.46	39	0.46	7.35	93	1.4
FGL056 05+00N		0.036	0.16	0.45	39	0.18	4.98	91	0.8
FGL056 05+50N		0.051	0.08	0.38	49	0.10	3.59	70	<0.5
FGL056 05+75N		0.038	0.12	0.62	43	0.14	4.85	91	<0.5
FGL056 06+00N		0.036	0.09	0.45	37	0.13	3.45	57	<0.5
FGL056 06+25N		0.027	0.09	0.39	28	0.13	2.81	65	<0.5
FGL056 06+75N		0.022	0.04	0.23	13	0.06	1.17	23	<0.5
FGL056 07+00N		0.028	0.08	0.39	29	0.13	2.73	84	<0.5
FGL056 07+50N		0.056	0.09	0.73	39	0.13	6.02	126	1.0

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL056 07+75N		0.61	0.0019	0.25	1.20	13.4	<0.02	<10	160	0.26	0.45	0.33	0.86	15.55	9.5	17
FGL057 00+00N		0.63	0.0006	0.37	1.39	9.2	<0.02	<10	360	0.27	0.48	0.12	0.85	15.35	7.8	20
FGL057 00+25N		0.78	0.0012	0.43	2.08	13.7	<0.02	<10	430	0.44	0.70	0.16	0.56	18.30	9.2	33
FGL057 00+50N		0.58	0.0019	0.63	1.80	26.0	<0.02	<10	450	0.39	7.50	0.20	0.22	16.60	6.3	27
FGL057 00+75N		0.67	0.0011	0.26	1.68	19.4	<0.02	<10	410	0.28	1.67	0.17	0.29	15.90	5.7	21
FGL057 01+00N		0.69	0.0039	0.85	1.81	10.4	<0.02	<10	300	0.38	0.44	0.16	0.46	17.35	9.4	28
FGL057 01+25N		0.90	0.0020	0.49	1.98	15.0	<0.02	<10	360	0.39	1.05	0.20	0.23	16.50	7.6	25
FGL057 01+50N		0.74	0.0007	0.85	1.79	14.9	<0.02	<10	270	0.33	0.96	0.15	0.18	16.20	6.2	25
FGL057 01+75N		0.76	0.0014	0.33	2.00	14.9	<0.02	<10	300	0.42	0.78	0.17	0.21	19.85	8.4	31
FGL057 02+00N		0.71	0.0007	0.20	1.43	16.9	<0.02	<10	280	0.26	0.37	0.21	0.18	17.70	5.5	22
FGL057 02+25N		0.60	0.0019	0.33	1.62	12.5	<0.02	<10	250	0.36	0.36	0.14	0.12	19.00	6.2	24
FGL057 02+50N		0.62	0.0025	0.24	2.00	10.6	<0.02	<10	340	0.48	0.23	0.27	0.21	20.7	8.2	32
FGL057 02+75N		0.78	0.0078	0.22	1.66	15.8	<0.02	<10	330	0.41	0.70	0.29	0.30	23.6	8.2	26
FGL057 03+00N		0.52	0.0021	0.17	1.12	10.9	<0.02	<10	200	0.34	0.31	0.35	0.42	17.80	5.9	20
FGL057 03+50N		0.87	0.0027	0.30	1.56	19.7	<0.02	<10	520	0.44	0.88	0.45	0.33	30.6	7.8	28
FGL057 03+75N		0.67	0.0064	1.29	1.86	40.6	<0.02	<10	1060	0.53	4.76	0.58	0.46	36.3	10.5	27
FGL057 04+25N		0.77	0.0030	0.33	1.44	20.5	0.03	<10	420	0.30	0.55	0.59	0.27	19.60	6.2	25
FGL057 04+75N		0.25	0.0011	0.28	1.10	9.7	<0.02	<10	220	0.26	0.44	0.12	0.35	12.20	3.7	15
FGL057 05+00N		0.39	0.0034	0.43	1.48	12.3	<0.02	<10	360	0.40	0.73	0.30	0.38	17.50	5.6	19
FGL057 05+25N		0.42	0.0020	0.31	1.18	8.1	<0.02	<10	160	0.29	0.53	0.18	0.36	11.85	5.3	16
FGL057 05+50N		0.40	0.0028	0.40	0.94	6.2	<0.02	<10	130	0.22	0.45	0.13	0.53	8.05	5.7	12
FGL057 06+00N		0.67	0.0017	0.17	1.15	6.0	<0.02	<10	200	0.26	0.36	0.27	0.24	21.2	6.1	20
FGL057 06+25N		0.85	0.0035	0.07	1.47	9.3	<0.02	<10	150	0.32	0.35	0.30	0.27	20.7	6.0	25
FGL057 06+50N		0.67	0.0014	0.10	1.70	16.0	<0.02	<10	140	0.31	0.50	0.29	0.36	17.95	14.1	24
FGL057 06+75N		0.64	0.0074	0.10	2.03	18.7	<0.02	<10	150	0.43	0.61	0.19	0.48	19.20	9.6	28
FGL057 07+25N		0.74	0.0013	0.19	2.04	13.0	<0.02	<10	180	0.36	0.52	0.23	0.71	15.55	8.5	24
FGL057 07+50N		0.40	0.0012	0.13	1.07	4.9	<0.02	<10	80	0.29	0.23	0.08	0.34	10.60	4.1	10
FGL057 07+75N		0.64	0.0036	0.12	1.74	14.8	<0.02	<10	140	0.44	0.63	0.26	0.79	20.1	10.7	24
FGL058 00+50N		0.73	0.0044	0.21	1.68	28.8	<0.02	<10	190	0.48	0.55	0.28	0.50	20.1	10.7	23
FGL058 01+00N		0.86	0.0155	0.32	1.51	12.2	<0.02	<10	270	0.42	0.54	0.40	0.39	30.1	10.2	26
FGL058 01+50N		0.47	0.0019	0.21	1.25	9.4	<0.02	<10	140	0.20	0.51	0.26	0.14	14.50	4.4	18
FGL058 02+50N		0.32	0.0018	0.20	0.81	5.0	<0.02	<10	100	0.12	0.30	0.18	0.10	10.05	2.7	14
FGL058 03+50N		0.29	0.0023	0.16	1.14	7.8	<0.02	<10	130	0.20	0.25	0.29	0.11	17.75	4.5	19
FGL058 04+00N		0.22	0.0022	0.16	1.22	7.9	<0.02	<10	120	0.20	0.24	0.23	0.10	16.60	5.5	19
FGL059 00+00		0.84	0.0028	0.13	1.51	9.1	<0.02	<10	170	0.30	0.24	0.28	0.10	21.9	7.8	22
FGL059 00+50S		0.40	0.0021	0.14	1.35	6.5	<0.02	<10	190	0.28	0.22	0.24	0.10	20.1	6.5	22
FGL059 01+50S		0.31	0.0016	0.13	1.02	7.2	<0.02	<10	120	0.21	0.16	0.28	0.08	15.15	4.1	15
FGL059 02+00S		0.24	0.0010	0.06	0.64	8.9	<0.02	<10	90	0.15	0.12	0.14	0.06	10.80	2.2	10
FGL059 02+50S		0.19	0.0027	0.15	0.90	12.7	<0.02	<10	110	0.15	0.20	0.23	0.10	13.85	3.3	15
FGL059 03+00S		0.52	0.0039	0.18	1.34	10.5	<0.02	<10	170	0.39	0.26	0.37	0.13	27.3	7.5	20

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL056 07+75N		1.20	13.9	2.03	4.76	<0.05	0.02	0.02	0.017	0.04	8.0	7.2	0.48	548	0.75	0.02	
FGL057 00+00N		1.59	17.2	2.26	6.19	<0.05	0.02	0.02	0.021	0.08	7.8	9.1	0.32	534	0.51	0.01	
FGL057 00+25N		1.51	17.8	2.89	6.50	<0.05	0.07	0.02	0.029	0.08	8.5	13.4	0.56	279	0.70	0.01	
FGL057 00+50N		2.67	17.4	3.13	7.77	<0.05	0.03	0.02	0.038	0.08	7.9	16.0	0.44	214	0.75	0.01	
FGL057 00+75N		2.08	13.3	2.92	7.35	<0.05	0.02	0.01	0.053	0.06	7.7	13.8	0.37	303	0.62	0.01	
FGL057 01+00N		1.80	19.1	2.69	7.08	<0.05	0.03	0.03	0.025	0.05	8.9	13.1	0.40	681	0.70	0.01	
FGL057 01+25N		5.95	14.9	2.83	7.47	<0.05	0.04	0.02	0.039	0.07	8.0	14.6	0.49	356	0.65	0.01	
FGL057 01+50N		3.10	15.2	2.88	7.46	<0.05	0.05	0.02	0.030	0.06	8.1	15.3	0.38	211	0.71	0.01	
FGL057 01+75N		4.67	18.4	3.01	6.88	<0.05	0.05	0.02	0.032	0.07	8.8	16.2	0.50	246	0.63	0.01	
FGL057 02+00N		3.65	12.6	2.16	7.21	<0.05	0.03	0.02	0.027	0.05	9.2	9.9	0.37	245	0.68	0.01	
FGL057 02+25N		3.10	14.0	2.29	5.42	<0.05	0.04	0.02	0.029	0.04	9.2	11.4	0.42	202	0.48	0.01	
FGL057 02+50N		3.22	18.1	2.72	6.38	<0.05	0.02	0.02	0.027	0.07	10.3	13.7	0.49	245	0.58	0.01	
FGL057 02+75N		7.33	16.2	2.44	5.84	<0.05	<0.02	0.02	0.031	0.06	11.9	12.1	0.48	337	0.42	0.01	
FGL057 03+00N		6.50	13.6	1.82	4.37	<0.05	<0.02	0.02	0.021	0.05	8.1	7.8	0.33	364	0.31	0.02	
FGL057 03+50N		7.20	15.9	2.22	5.60	<0.05	<0.02	0.02	0.029	0.06	14.6	10.9	0.51	357	0.35	0.01	
FGL057 03+75N		11.85	27.8	2.58	6.07	<0.05	0.02	0.11	0.055	0.07	21.3	12.2	0.40	792	1.06	0.01	
FGL057 04+25N		3.16	21.9	1.90	4.70	<0.05	0.03	0.04	0.025	0.06	10.3	11.9	0.44	259	0.29	0.02	
FGL057 04+75N		3.18	14.6	1.39	3.93	<0.05	<0.02	0.04	0.022	0.05	6.8	6.0	0.21	176	0.22	0.02	
FGL057 05+00N		4.03	26.3	1.60	4.67	<0.05	<0.02	0.03	0.022	0.06	9.3	8.8	0.30	254	0.30	0.02	
FGL057 05+25N		2.05	17.5	1.54	4.34	<0.05	<0.02	0.02	0.016	0.05	5.8	7.1	0.26	223	0.31	0.02	
FGL057 05+50N		1.79	13.9	1.07	3.57	<0.05	<0.02	0.03	0.014	0.04	4.0	4.8	0.18	272	0.30	0.02	
FGL057 06+00N		1.24	20.4	1.63	4.10	<0.05	<0.02	0.03	0.017	0.04	10.7	8.1	0.36	162	0.31	0.01	
FGL057 06+25N		1.46	15.9	2.08	4.99	<0.05	<0.02	0.02	0.021	0.06	10.7	11.6	0.45	227	0.48	0.01	
FGL057 06+50N		2.02	15.4	3.04	7.16	<0.05	<0.02	0.01	0.023	0.06	8.8	15.1	0.52	805	0.84	0.01	
FGL057 06+75N		2.25	17.4	2.99	7.53	<0.05	0.02	0.02	0.031	0.07	9.7	16.9	0.51	439	0.79	0.01	
FGL057 07+25N		1.83	24.5	2.59	6.26	<0.05	<0.02	0.02	0.024	0.06	7.7	14.9	0.49	384	0.54	0.01	
FGL057 07+50N		0.86	12.4	1.10	3.50	<0.05	<0.02	0.02	0.010	0.03	5.0	4.9	0.16	154	0.21	0.02	
FGL057 07+75N		1.80	18.4	2.49	6.20	<0.05	0.08	0.02	0.027	0.07	10.3	13.3	0.56	412	0.75	0.01	
FGL058 00+50N		2.84	18.2	2.55	6.21	<0.05	<0.02	0.02	0.024	0.06	10.3	11.6	0.53	508	0.79	0.01	
FGL058 01+00N		2.22	16.9	2.07	5.16	<0.05	0.02	0.03	0.024	0.06	14.9	11.4	0.59	376	0.53	0.01	
FGL058 01+50N		1.75	10.7	1.61	4.69	<0.05	<0.02	0.03	0.016	0.04	7.5	8.0	0.38	154	0.47	0.02	
FGL058 02+50N		1.34	10.8	1.17	3.62	<0.05	<0.02	0.04	0.012	0.03	5.2	4.2	0.21	113	0.32	0.02	
FGL058 03+50N		1.73	9.2	1.49	4.33	<0.05	<0.02	0.04	0.016	0.04	9.6	7.5	0.37	149	0.32	0.01	
FGL058 04+00N		2.14	8.9	1.59	4.45	<0.05	<0.02	0.03	0.018	0.04	8.7	7.9	0.38	160	0.37	0.01	
FGL059 00+00		2.79	10.0	2.03	5.31	<0.05	<0.02	0.03	0.021	0.05	11.5	10.8	0.52	268	0.42	0.01	
FGL059 00+50S		2.79	10.6	1.64	4.80	<0.05	<0.02	0.04	0.019	0.05	10.4	9.1	0.40	192	0.41	0.02	
FGL059 01+50S		2.30	9.5	1.46	4.00	<0.05	<0.02	0.04	0.013	0.04	8.1	6.4	0.35	141	0.35	0.02	
FGL059 02+00S		0.87	6.1	1.00	2.44	<0.05	<0.02	0.02	0.008	0.03	5.8	3.2	0.15	60	0.22	0.02	
FGL059 02+50S		1.50	9.6	1.47	3.33	<0.05	<0.02	0.05	0.012	0.04	7.8	4.7	0.23	93	0.23	0.02	
FGL059 03+00S		2.93	12.0	1.93	4.79	<0.05	0.02	0.03	0.017	0.05	15.1	9.3	0.53	248	0.31	0.02	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL056 07+75N		0.70	9.7	880	44.0	5.9	<0.001	0.02	0.77	2.2	0.3	0.3	21.5	<0.01	0.05	0.9	
FGL057 00+00N		1.27	10.6	290	24.2	11.7	<0.001	0.01	0.69	2.2	0.2	0.6	12.6	<0.01	0.04	1.2	
FGL057 00+25N		1.51	21.1	220	11.2	9.9	<0.001	0.01	0.68	3.7	0.3	0.6	18.5	<0.01	0.07	2.7	
FGL057 00+50N		1.66	15.9	260	12.7	10.3	<0.001	0.01	1.49	3.3	0.4	0.6	30.3	<0.01	0.65	1.9	
FGL057 00+75N		1.34	10.9	280	20.0	9.3	<0.001	0.01	1.68	2.5	0.2	0.6	23.2	<0.01	0.19	1.6	
FGL057 01+00N		1.60	15.7	220	10.9	8.6	<0.001	0.01	0.57	3.4	0.3	0.6	17.7	<0.01	0.04	2.1	
FGL057 01+25N		1.22	16.3	280	14.3	12.7	<0.001	0.01	1.78	3.8	0.3	0.6	24.0	<0.01	0.09	2.3	
FGL057 01+50N		1.62	14.2	230	12.9	11.2	<0.001	0.01	1.00	3.0	0.3	0.6	18.1	<0.01	0.15	2.2	
FGL057 01+75N		1.46	19.3	260	15.9	11.2	<0.001	0.01	1.26	3.8	0.3	0.6	17.8	<0.01	0.11	2.6	
FGL057 02+00N		1.67	11.0	200	10.7	13.5	<0.001	0.01	0.86	2.7	0.2	0.7	20.8	<0.01	0.04	1.9	
FGL057 02+25N		1.38	14.8	190	11.1	7.2	<0.001	0.01	0.94	3.1	0.2	0.5	15.0	<0.01	0.07	2.6	
FGL057 02+50N		1.76	16.7	370	10.5	9.4	<0.001	0.01	0.59	3.5	0.4	0.6	23.2	0.01	0.05	2.1	
FGL057 02+75N		1.01	16.2	500	20.9	9.8	<0.001	0.01	1.53	3.2	0.5	0.5	25.3	<0.01	0.27	1.0	
FGL057 03+00N		0.67	11.2	530	19.9	7.5	<0.001	0.01	1.55	2.0	0.3	0.4	23.6	<0.01	0.09	0.4	
FGL057 03+50N		0.71	16.0	820	19.8	8.6	<0.001	0.02	2.35	3.5	0.6	0.5	38.9	<0.01	0.07	0.9	
FGL057 03+75N		0.62	13.1	1070	32.5	11.8	<0.001	0.06	4.37	4.5	1.0	0.5	49.3	<0.01	0.09	1.4	
FGL057 04+25N		0.95	14.9	550	30.1	8.9	<0.001	0.03	2.43	3.5	0.3	0.4	86.6	<0.01	0.06	1.7	
FGL057 04+75N		0.43	8.1	490	8.7	8.0	<0.001	0.03	0.62	0.9	0.3	0.3	11.9	<0.01	0.02	<0.2	
FGL057 05+00N		0.66	11.5	450	31.5	9.6	<0.001	0.04	0.87	2.0	0.4	0.4	23.4	<0.01	0.05	0.3	
FGL057 05+25N		0.59	8.9	460	36.1	7.4	<0.001	0.02	0.57	1.4	0.2	0.3	16.5	<0.01	0.05	0.2	
FGL057 05+50N		0.37	6.4	390	63.6	6.2	<0.001	0.03	0.41	0.7	0.3	0.3	14.0	<0.01	0.06	<0.2	
FGL057 06+00N		0.73	11.4	710	20.5	7.0	<0.001	0.01	0.44	2.2	0.4	0.4	19.2	<0.01	0.03	0.6	
FGL057 06+25N		1.01	13.4	730	22.6	8.5	<0.001	0.01	0.61	2.4	0.3	0.4	19.0	<0.01	0.03	0.9	
FGL057 06+50N		1.22	11.4	730	48.5	11.1	<0.001	0.01	1.01	2.7	0.3	0.5	26.0	<0.01	0.07	1.1	
FGL057 06+75N		1.48	14.9	570	41.2	11.9	<0.001	0.01	0.80	3.4	0.3	0.6	17.5	<0.01	0.06	1.5	
FGL057 07+25N		1.35	13.9	510	50.8	10.5	<0.001	0.01	0.78	2.7	0.2	0.5	23.4	<0.01	0.07	1.2	
FGL057 07+50N		0.66	4.8	340	32.0	4.3	<0.001	0.02	0.34	1.0	0.2	0.3	10.8	<0.01	0.03	0.3	
FGL057 07+75N		1.45	16.2	520	59.4	12.9	<0.001	0.01	0.84	3.5	0.3	0.5	23.8	<0.01	0.07	2.5	
FGL058 00+50N		0.83	13.7	720	57.7	9.6	<0.001	0.01	1.16	2.7	0.5	0.4	21.9	<0.01	0.12	0.6	
FGL058 01+00N		0.98	14.4	930	53.0	8.3	<0.001	0.01	0.98	4.2	0.5	0.4	24.9	<0.01	0.09	2.2	
FGL058 01+50N		0.71	8.8	750	32.2	8.3	<0.001	0.02	0.44	1.8	0.3	0.3	17.9	<0.01	0.04	0.4	
FGL058 02+50N		0.40	5.2	620	17.2	6.5	<0.001	0.04	0.31	0.8	0.2	0.3	15.3	<0.01	0.02	<0.2	
FGL058 03+50N		0.73	9.2	740	10.9	7.4	<0.001	0.03	0.41	2.0	0.4	0.3	20.1	<0.01	0.06	0.4	
FGL058 04+00N		0.70	9.3	700	13.5	8.3	<0.001	0.03	0.40	1.9	0.3	0.3	16.9	<0.01	0.04	0.4	
FGL059 00+00		0.84	12.0	810	13.5	9.9	<0.001	0.02	0.72	2.8	0.4	0.4	18.6	<0.01	0.04	1.1	
FGL059 00+50S		0.69	11.3	670	14.3	10.1	<0.001	0.03	0.58	2.2	0.4	0.4	19.9	<0.01	0.03	0.4	
FGL059 01+50S		0.50	7.7	850	9.1	6.1	<0.001	0.04	0.49	1.3	0.3	0.3	19.2	<0.01	0.03	0.2	
FGL059 02+00S		0.37	4.4	670	5.5	4.0	<0.001	0.04	0.24	0.6	0.4	0.2	12.1	<0.01	0.03	<0.2	
FGL059 02+50S		0.45	6.7	750	8.5	5.2	<0.001	0.05	0.42	1.0	0.3	0.2	18.5	<0.01	0.06	<0.2	
FGL059 03+00S		0.87	11.5	850	12.3	7.5	<0.001	0.03	0.88	3.1	0.5	0.3	24.7	<0.01	0.08	1.8	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL056 07+75N		0.043	0.08	0.46	50	0.31	4.59	142	0.6
FGL057 00+00N		0.053	0.10	0.29	58	0.16	2.57	112	0.6
FGL057 00+25N		0.076	0.11	0.39	66	0.21	3.00	82	2.8
FGL057 00+50N		0.051	0.12	0.34	71	0.22	3.04	72	1.2
FGL057 00+75N		0.037	0.14	0.29	65	0.26	2.74	101	0.8
FGL057 01+00N		0.074	0.10	0.39	65	0.20	3.08	50	1.5
FGL057 01+25N		0.052	0.13	0.34	61	0.24	2.98	88	2.1
FGL057 01+50N		0.068	0.15	0.35	66	0.20	2.64	59	2.4
FGL057 01+75N		0.077	0.12	0.41	67	0.19	3.40	64	2.5
FGL057 02+00N		0.072	0.13	0.35	65	0.18	2.57	49	1.4
FGL057 02+25N		0.064	0.11	0.41	54	0.18	3.21	49	1.9
FGL057 02+50N		0.083	0.11	0.49	64	0.20	3.93	60	1.0
FGL057 02+75N		0.058	0.12	0.42	56	0.18	7.40	84	<0.5
FGL057 03+00N		0.047	0.08	0.34	45	0.18	4.19	89	<0.5
FGL057 03+50N		0.037	0.19	0.58	47	0.34	7.88	99	<0.5
FGL057 03+75N		0.017	0.35	0.89	52	1.16	11.90	113	0.5
FGL057 04+25N		0.050	0.12	0.37	44	0.16	5.29	144	1.0
FGL057 04+75N		0.029	0.08	0.37	33	0.13	3.46	80	<0.5
FGL057 05+00N		0.032	0.11	0.40	36	0.13	6.42	114	<0.5
FGL057 05+25N		0.040	0.08	0.33	39	0.25	2.95	94	<0.5
FGL057 05+50N		0.027	0.08	0.28	26	0.13	2.10	122	<0.5
FGL057 06+00N		0.049	0.09	0.61	38	0.14	5.30	69	<0.5
FGL057 06+25N		0.058	0.10	0.49	47	0.17	4.69	87	0.5
FGL057 06+50N		0.065	0.10	0.42	68	0.31	3.60	118	<0.5
FGL057 06+75N		0.064	0.11	0.46	67	0.19	3.53	132	0.8
FGL057 07+25N		0.061	0.10	0.34	60	0.18	2.85	172	0.6
FGL057 07+50N		0.036	0.06	0.30	26	0.10	2.02	55	0.5
FGL057 07+75N		0.069	0.10	0.49	54	0.16	4.39	169	3.3
FGL058 00+50N		0.050	0.12	0.50	55	0.15	4.89	161	<0.5
FGL058 01+00N		0.061	0.12	0.72	47	0.15	8.41	134	0.6
FGL058 01+50N		0.040	0.11	0.38	41	0.13	3.06	81	<0.5
FGL058 02+50N		0.028	0.08	0.39	28	0.08	2.03	41	<0.5
FGL058 03+50N		0.038	0.09	0.54	34	0.18	4.30	52	<0.5
FGL058 04+00N		0.032	0.11	0.51	37	0.24	3.68	57	<0.5
FGL059 00+00		0.044	0.12	0.61	45	0.15	4.81	67	<0.5
FGL059 00+50S		0.033	0.12	0.67	38	0.14	4.99	54	<0.5
FGL059 01+50S		0.028	0.09	0.56	29	0.12	3.42	45	<0.5
FGL059 02+00S		0.022	0.06	0.39	26	0.10	2.51	22	<0.5
FGL059 02+50S		0.030	0.08	0.59	28	0.09	3.57	37	<0.5
FGL059 03+00S		0.046	0.09	0.91	41	0.12	7.43	67	0.5

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL059 03+50S		0.46	0.0047	0.52	1.18	16.7	<0.02	<10	170	0.27	1.29	0.29	0.45	17.65	6.3	18
FGL060 00+50N		0.70	0.0028	0.08	1.22	6.1	<0.02	<10	140	0.18	0.24	0.29	0.08	18.20	4.2	21
FGL060 01+50N		0.62	0.0012	0.07	1.06	8.4	<0.02	<10	150	0.20	0.15	0.23	0.06	14.35	6.8	16
FGL060 02+00N		0.68	0.0021	0.08	1.28	5.1	<0.02	<10	160	0.22	0.18	0.28	0.07	18.20	5.1	19
FGL060 02+50N		0.56	0.0018	0.12	1.31	6.8	<0.02	<10	200	0.22	0.20	0.26	0.08	16.55	5.4	20

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CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL059 03+50S		3.16	78.2	1.94	4.19	<0.05	<0.02	0.03	0.026	0.05	8.7	8.4	0.39	463	0.50	0.02
FGL060 00+50N		2.32	9.8	1.41	5.04	<0.05	<0.02	0.03	0.017	0.05	9.7	8.0	0.39	140	0.21	0.02
FGL060 01+50N		2.21	7.6	1.78	3.98	<0.05	<0.02	0.03	0.013	0.04	7.5	6.2	0.31	570	0.52	0.02
FGL060 02+00N		1.90	8.3	1.54	4.57	<0.05	<0.02	0.03	0.016	0.04	9.3	8.3	0.42	184	0.28	0.02
FGL060 02+50N		2.34	9.4	1.74	4.68	<0.05	<0.02	0.04	0.016	0.04	8.8	8.3	0.42	215	0.39	0.02

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL059 03+50S		0.68	10.2	590	84.4	8.8	<0.001	0.02	1.69	2.2	0.3	0.3	19.5	<0.01	0.05	0.7
FGL060 00+50N		0.90	9.3	660	10.5	7.6	<0.001	0.03	0.63	2.0	0.2	0.4	20.2	<0.01	0.02	0.6
FGL060 01+50N		0.60	6.9	820	7.6	6.3	<0.001	0.04	0.56	1.6	0.3	0.3	17.1	<0.01	0.04	0.5
FGL060 02+00N		0.73	9.4	780	9.4	7.7	<0.001	0.03	0.52	1.9	0.3	0.3	19.2	<0.01	0.02	0.6
FGL060 02+50N		0.71	9.2	790	8.2	8.3	<0.001	0.04	0.49	2.1	0.3	0.3	20.5	<0.01	0.02	0.6

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method Analyte Units LOR	ME- MS41 Tl % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5
FGL059 03+50S		0.041	0.12	0.47	41	0.14	4.04	176	<0.5
FGL060 00+50N		0.052	0.11	0.50	35	0.16	3.68	53	<0.5
FGL060 01+50N		0.032	0.10	0.54	40	0.11	3.37	48	<0.5
FGL060 02+00N		0.037	0.09	0.51	33	0.14	3.97	54	<0.5
FGL060 02+50N		0.032	0.10	0.56	39	0.15	4.25	54	<0.5

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
Applies to Method: LOG- 22 SCR- 41 WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Applies to Method: Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164274

Project: Freegold Mtd - Tinta Property

This report is for 124 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	WEI- 21	Au- ST43	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL061 00+00		0.51	0.0011	0.08	0.92	3.3	<0.02	<10	170	0.24	0.22	0.29	0.09	13.40	4.0	16
FGL061 05+50S		0.77	0.0023	0.12	1.64	7.6	<0.02	<10	290	0.52	0.16	0.45	0.10	30.4	9.1	26
FGL061 01+00S		0.35	0.0048	0.15	1.00	4.7	<0.02	<10	350	0.30	0.17	0.62	0.07	19.25	4.2	12
FGL061 02+00S		0.63	0.0043	0.19	1.19	18.9	<0.02	<10	180	0.40	0.25	0.27	0.12	37.0	7.2	19
FGL061 02+50S		0.69	0.0014	0.09	2.01	13.3	<0.02	<10	240	0.42	0.17	0.26	0.13	24.5	9.7	32
FGL062 00+00		0.71	0.0026	0.05	1.92	15.5	<0.02	<10	220	0.45	0.18	0.26	0.19	23.1	8.8	29
FGL062 00+50N		0.66	0.0023	0.02	1.75	11.5	<0.02	<10	180	0.34	0.15	0.20	0.12	21.3	8.6	29
FGL062 01+00N		0.66	0.0008	0.08	1.20	10.0	<0.02	<10	130	0.37	0.13	0.19	0.10	20.9	6.4	16
FGL062 01+50N		0.74	0.0011	0.07	1.38	6.0	<0.02	<10	230	0.45	0.10	0.37	0.07	24.8	6.9	20
FGL062 02+00N		0.82	0.0049	0.06	1.53	6.1	<0.02	<10	230	0.31	0.14	0.38	0.12	21.3	8.0	26
FGL062 02+50N		0.72	0.0010	0.04	1.33	8.7	<0.02	<10	160	0.33	0.17	0.39	0.09	20.6	7.0	24
FGL063 00+00		0.71	0.0011	0.04	1.32	5.0	<0.02	<10	180	0.33	0.11	0.45	0.07	21.6	6.7	18
FGL063 00+50S		0.79	0.0031	0.07	2.80	10.8	<0.02	<10	270	0.81	0.18	0.25	0.11	30.4	11.1	36
FGL063 01+00S		0.55	0.0070	0.03	1.70	10.0	<0.02	<10	170	0.47	0.18	0.18	0.14	27.5	5.7	22
FGL063 02+00S		0.80	0.0004	0.03	1.40	11.6	<0.02	<10	190	0.46	0.11	0.22	0.06	29.9	8.0	11
FGL063 02+50S		0.64	0.0026	0.02	2.00	10.4	<0.02	<10	180	0.43	0.27	0.28	0.06	24.5	8.9	29
FGL064 00+00		0.41	0.0008	0.04	2.14	10.8	<0.02	<10	210	0.38	0.18	0.23	0.15	19.90	8.2	30
FGL064 00+50N		0.45	0.0008	0.05	1.40	5.7	<0.02	<10	260	0.62	0.09	0.36	0.07	31.7	5.7	20
FGL064 01+00N		0.46	0.0008	0.02	1.76	7.9	<0.02	<10	180	0.30	0.12	0.24	0.10	17.65	7.7	20
FGL064 01+50N		0.44	0.0015	0.05	1.73	6.7	<0.02	<10	190	0.32	0.13	0.21	0.09	14.25	6.5	23
FGL064 02+00N		0.43	0.0024	0.02	2.64	11.2	<0.02	<10	210	0.52	0.15	0.19	0.13	18.50	10.6	37
FGL064 02+50N		0.34	0.0008	0.03	1.09	6.4	<0.02	<10	100	0.19	0.16	0.10	0.09	13.65	3.5	15
FGL064 04+00N		0.44	0.0008	0.05	1.18	5.4	<0.02	<10	240	0.28	0.09	0.52	0.06	21.7	7.0	19
FGL064 05+50N		0.44	0.0005	0.03	0.87	2.8	<0.02	<10	120	0.16	0.07	0.43	0.09	12.00	6.0	15
FGL064 06+50N		0.57	0.0030	0.04	1.55	4.8	<0.02	<10	150	0.24	0.10	0.47	0.05	17.75	7.0	28
FGL064 07+50N		0.54	0.0011	0.06	1.65	5.2	<0.02	<10	150	0.31	0.11	0.48	0.09	18.00	11.8	35
FGL064 08+00N		0.60	0.0010	0.05	2.07	6.2	<0.02	<10	160	0.41	0.11	0.55	0.08	18.75	9.6	48
FGL064 08+50N		0.60	0.0011	0.05	1.60	4.4	<0.02	<10	150	0.29	0.10	0.45	0.08	17.95	6.4	32
FGL065 00+00N		0.29	0.0003	0.03	0.48	1.7	<0.02	<10	50	0.09	0.05	0.10	0.05	6.44	1.9	5
FGL065 00+50N		0.27	0.0005	0.05	0.55	1.4	<0.02	<10	90	0.15	0.05	0.11	0.09	8.51	2.0	7
FGL065 01+00N		0.21	0.0008	0.08	0.88	1.6	<0.02	<10	130	0.21	0.06	0.24	0.06	11.75	2.8	11
FGL065 01+50N		0.44	0.0021	0.10	2.03	4.6	<0.02	<10	260	0.70	0.11	0.58	0.10	44.1	9.5	41
FGL066 04+50N		0.29	0.0027	0.14	2.20	9.8	<0.02	<10	180	0.52	0.15	0.24	0.07	24.2	7.2	33
FGL066 05+00S		0.32	0.0006	0.06	1.28	4.9	<0.02	<10	150	0.29	0.09	0.24	0.17	16.30	5.2	17
FGL066 05+50S		0.34	0.0006	0.04	1.62	6.1	<0.02	<10	130	0.27	0.09	0.19	0.09	11.30	6.9	24
FGL067 00+00S		0.48	0.0017	0.09	1.32	14.3	<0.02	<10	250	0.37	0.30	0.40	0.30	20.3	8.9	18
FGL067 00+50S		0.48	0.0031	0.16	1.64	10.3	<0.02	<10	410	0.43	0.23	0.83	0.23	19.55	9.1	27
FGL067 01+00		0.45	0.0024	0.11	1.50	9.1	<0.02	<10	350	0.34	0.21	0.58	0.20	15.90	6.5	26
FGL067 01+50S		0.23	0.0046	0.34	1.84	2.4	0.15	<10	410	0.39	0.19	1.02	0.83	19.10	5.4	19
FGL067 02+00S		0.32	0.0030	0.20	1.73	4.4	<0.02	<10	370	0.42	0.12	0.85	0.38	22.7	6.6	21

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Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL061 00+00		1.22	15.1	1.28	3.52	<0.05	<0.02	0.03	0.012	0.04	6.7	5.9	0.29	219	0.34	0.02
FGL061 05+50S		2.23	15.6	2.26	5.34	<0.05	0.03	0.04	0.021	0.05	15.6	10.7	0.55	309	0.46	0.02
FGL061 01+00S		2.72	14.4	1.24	3.55	<0.05	0.02	0.05	0.013	0.04	12.1	5.1	0.20	236	0.43	0.03
FGL061 02+00S		8.07	12.8	2.21	4.29	<0.05	<0.02	0.02	0.018	0.06	14.9	8.5	0.37	436	0.47	0.02
FGL061 02+50S		4.02	16.7	3.11	7.18	<0.05	0.02	0.02	0.027	0.06	11.1	15.6	0.55	399	0.80	0.01
FGL062 00+00		3.44	19.2	3.19	6.94	<0.05	<0.02	0.02	0.026	0.08	11.3	14.8	0.50	391	0.74	0.02
FGL062 00+50N		1.99	20.1	2.96	6.47	<0.05	0.03	0.01	0.024	0.08	10.0	15.7	0.51	265	0.71	0.01
FGL062 01+00N		5.15	11.1	2.12	5.42	<0.05	<0.02	0.01	0.017	0.06	9.4	7.7	0.34	406	0.52	0.02
FGL062 01+50N		2.86	13.1	1.90	4.90	<0.05	0.03	0.02	0.018	0.05	13.6	9.9	0.53	388	0.34	0.02
FGL062 02+00N		2.33	17.2	1.95	5.44	<0.05	0.04	0.02	0.020	0.05	11.0	11.0	0.51	545	0.49	0.01
FGL062 02+50N		2.28	13.0	2.14	4.69	<0.05	<0.02	0.02	0.016	0.06	9.8	9.4	0.54	362	0.41	0.02
FGL063 00+00		2.09	10.2	1.94	4.74	<0.05	<0.02	0.02	0.017	0.05	10.6	9.0	0.48	433	0.39	0.02
FGL063 00+50S		1.59	23.0	3.26	7.16	<0.05	0.05	0.08	0.030	0.08	12.2	17.4	0.73	401	0.48	0.01
FGL063 01+00S		1.36	15.6	2.71	7.26	<0.05	<0.02	0.02	0.021	0.06	15.3	11.8	0.37	232	0.67	0.01
FGL063 02+00S		2.23	10.5	2.46	4.48	<0.05	<0.02	0.01	0.017	0.06	16.9	8.4	0.25	460	0.60	0.01
FGL063 02+50S		2.24	14.8	2.71	5.81	<0.05	0.03	0.01	0.023	0.07	11.6	14.3	0.60	286	0.59	0.01
FGL064 00+00		2.17	20.0	3.10	7.99	<0.05	0.02	0.01	0.025	0.08	9.7	15.2	0.55	300	0.88	0.01
FGL064 00+50N		3.12	11.8	1.82	4.79	<0.05	<0.02	0.02	0.018	0.06	24.2	9.6	0.40	273	0.51	0.02
FGL064 01+00N		1.02	9.1	2.66	6.83	<0.05	<0.02	0.01	0.018	0.05	8.7	16.7	0.72	397	0.73	0.01
FGL064 01+50N		0.75	13.2	2.37	6.34	<0.05	0.02	0.01	0.018	0.05	7.5	13.6	0.49	255	0.68	0.01
FGL064 02+00N		1.21	25.2	3.09	6.47	<0.05	0.12	0.01	0.029	0.07	8.2	16.8	0.65	267	0.72	0.01
FGL064 02+50N		0.67	9.8	2.03	6.96	<0.05	<0.02	0.01	0.012	0.04	7.0	6.5	0.18	143	0.75	0.01
FGL064 04+00N		0.81	12.1	1.81	4.01	<0.05	0.04	0.20	0.014	0.04	11.0	8.7	0.44	781	0.37	0.02
FGL064 05+50N		0.57	7.8	1.33	3.29	<0.05	0.03	0.02	0.009	0.04	6.0	6.3	0.34	499	0.30	0.02
FGL064 06+50N		0.89	9.6	1.99	5.19	<0.05	0.03	0.02	0.019	0.05	9.2	12.0	0.63	290	0.27	0.01
FGL064 07+50N		0.87	13.0	2.47	5.65	<0.05	0.04	0.02	0.021	0.05	9.0	11.9	0.66	541	0.56	0.01
FGL064 08+00N		0.98	14.6	2.67	7.11	<0.05	0.04	0.01	0.021	0.06	10.1	15.2	0.87	324	0.45	0.01
FGL064 08+50N		0.83	11.8	1.97	5.04	<0.05	0.03	0.01	0.018	0.05	9.7	11.6	0.60	222	0.35	0.01
FGL065 00+00N		0.32	7.3	0.85	2.29	<0.05	<0.02	0.01	<0.005	0.03	2.8	1.7	0.07	78	0.23	0.02
FGL065 00+50N		0.47	11.4	0.85	2.33	<0.05	<0.02	0.01	0.006	0.03	4.2	2.1	0.08	65	0.24	0.02
FGL065 01+00N		0.89	9.4	0.82	3.12	<0.05	<0.02	0.02	0.008	0.03	7.0	4.3	0.17	85	0.23	0.03
FGL065 01+50N		0.88	26.8	2.45	6.45	0.05	0.06	0.04	0.024	0.05	23.1	14.3	0.85	359	0.32	0.02
FGL066 04+50N		1.26	14.1	2.79	6.75	<0.05	0.05	0.03	0.024	0.06	12.7	15.0	0.50	229	0.67	0.01
FGL066 05+00S		1.08	20.9	1.83	4.85	<0.05	<0.02	0.02	0.015	0.05	8.2	8.2	0.29	264	0.65	0.02
FGL066 05+50S		1.68	10.6	2.41	5.84	<0.05	<0.02	0.02	0.018	0.05	5.0	12.9	0.46	280	0.54	0.02
FGL067 00+00S		3.12	22.1	2.54	5.07	<0.05	0.02	0.02	0.026	0.06	11.0	12.7	0.43	491	0.56	0.02
FGL067 00+50S		3.11	19.6	2.42	5.55	<0.05	0.03	0.03	0.023	0.07	11.1	13.6	0.61	500	0.66	0.01
FGL067 01+00		3.14	12.8	2.24	5.48	<0.05	0.02	0.03	0.018	0.06	9.1	13.2	0.52	311	0.66	0.02
FGL067 01+50S		3.92	20.0	1.57	5.64	<0.05	0.03	0.06	0.018	0.05	11.2	11.6	0.44	197	0.22	0.02
FGL067 02+00S		3.27	16.7	2.19	5.75	<0.05	0.04	0.07	0.019	0.05	13.9	11.9	0.45	312	0.25	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL061 00+00		0.58	8.4	630	4.4	6.9	<0.001	0.04	0.44	1.5	0.3	0.3	23.6	<0.01	0.01	0.4
FGL061 05+50S		1.09	14.7	830	8.2	8.3	<0.001	0.03	0.72	4.2	0.5	0.4	30.0	<0.01	0.03	2.6
FGL061 01+00S		0.65	6.9	740	6.7	5.5	<0.001	0.07	0.55	1.3	0.5	0.3	43.2	<0.01	0.03	0.2
FGL061 02+00S		0.70	11.3	700	12.6	8.1	<0.001	0.02	0.91	2.5	0.4	0.3	24.6	<0.01	0.09	1.3
FGL061 02+50S		1.68	18.8	460	10.0	11.6	<0.001	0.02	0.65	3.7	0.3	0.6	23.8	<0.01	0.03	1.9
FGL062 00+00		1.18	15.5	640	10.0	10.5	<0.001	0.01	0.61	3.1	0.4	0.5	21.8	<0.01	0.04	1.0
FGL062 00+50N		1.60	18.4	350	8.8	9.9	<0.001	0.01	0.49	3.6	0.3	0.5	21.0	<0.01	0.03	2.7
FGL062 01+00N		0.46	8.6	590	10.0	9.1	<0.001	0.02	0.83	1.6	0.3	0.4	15.9	<0.01	0.04	0.3
FGL062 01+50N		0.80	12.3	720	7.5	6.2	<0.001	0.02	0.67	3.4	0.4	0.4	25.9	<0.01	0.02	2.4
FGL062 02+00N		0.89	13.9	910	9.5	8.3	<0.001	0.03	0.47	3.2	0.5	0.4	27.3	<0.01	0.02	1.8
FGL062 02+50N		0.87	13.0	850	8.8	7.7	<0.001	0.01	0.92	2.9	0.3	0.3	25.2	<0.01	0.03	1.8
FGL063 00+00		0.69	9.7	920	6.6	6.5	<0.001	0.02	0.60	2.2	0.3	0.3	28.4	<0.01	0.01	0.8
FGL063 00+50S		1.68	22.4	550	8.4	10.9	<0.001	0.01	0.43	4.8	0.5	0.6	20.8	<0.01	0.02	3.2
FGL063 01+00S		1.16	11.5	700	8.4	8.3	<0.001	0.01	0.44	2.6	0.3	0.5	19.7	<0.01	0.03	0.6
FGL063 02+00S		0.38	6.1	620	11.3	9.7	<0.001	0.01	0.80	1.8	0.4	0.2	18.3	<0.01	0.03	2.2
FGL063 02+50S		1.38	19.3	620	8.0	8.8	<0.001	0.01	0.46	3.9	0.3	0.5	19.4	<0.01	0.02	2.9
FGL064 00+00		1.63	17.7	390	9.7	11.3	<0.001	0.01	0.44	3.9	0.3	0.6	23.8	<0.01	0.03	2.2
FGL064 00+50N		0.68	12.4	450	5.9	7.6	<0.001	0.01	0.35	3.3	0.5	0.3	31.3	<0.01	0.01	1.8
FGL064 01+00N		1.00	11.2	320	8.3	8.6	<0.001	0.01	0.76	2.7	0.2	0.5	26.2	<0.01	0.02	1.3
FGL064 01+50N		1.41	11.9	240	6.8	7.1	<0.001	0.01	0.28	2.6	0.2	0.5	23.5	<0.01	0.02	1.6
FGL064 02+00N		1.67	23.6	250	9.5	8.8	<0.001	0.01	0.46	4.2	0.3	0.6	20.9	0.01	0.03	3.4
FGL064 02+50N		1.25	6.6	360	7.1	5.9	<0.001	0.01	0.32	1.3	0.2	0.6	12.3	<0.01	0.03	0.4
FGL064 04+00N		0.73	9.9	850	5.5	4.5	<0.001	0.02	0.29	2.4	0.4	0.3	32.4	<0.01	0.02	1.6
FGL064 05+50N		0.55	7.5	830	5.1	4.5	<0.001	0.02	0.20	1.5	0.2	0.2	27.1	<0.01	0.02	1.0
FGL064 06+50N		0.92	12.3	880	8.5	7.1	<0.001	0.01	0.25	3.0	0.3	0.4	27.9	<0.01	0.02	2.2
FGL064 07+50N		0.76	13.3	1100	7.5	7.5	<0.001	0.03	0.25	3.0	0.3	0.4	29.1	<0.01	0.02	1.4
FGL064 08+00N		0.91	18.6	1140	9.0	8.2	<0.001	0.02	0.32	3.9	0.3	0.4	33.0	<0.01	0.02	2.0
FGL064 08+50N		0.81	13.5	860	7.9	7.0	<0.001	0.02	0.25	3.0	0.3	0.4	26.0	<0.01	0.02	1.7
FGL065 00+00N		0.19	2.6	370	2.1	2.8	<0.001	0.01	0.10	0.3	<0.2	0.2	10.8	<0.01	0.01	<0.2
FGL065 00+50N		0.15	3.5	290	2.4	3.6	<0.001	0.02	0.10	0.3	<0.2	0.2	12.1	<0.01	0.01	<0.2
FGL065 01+00N		0.38	5.2	420	2.8	5.7	<0.001	0.03	0.12	0.7	0.2	0.2	18.0	<0.01	0.01	<0.2
FGL065 01+50N		0.75	19.6	1070	6.8	7.4	<0.001	0.02	0.32	5.7	1.0	0.4	35.0	<0.01	0.02	2.2
FGL066 04+50N		1.76	15.2	350	9.5	8.1	<0.001	0.01	0.31	4.2	0.5	0.6	20.3	0.01	0.03	3.0
FGL066 05+00S		0.61	8.7	300	7.6	7.0	<0.001	0.01	0.30	1.7	0.2	0.4	20.8	<0.01	0.01	0.2
FGL066 05+50S		0.80	11.5	310	5.9	6.8	<0.001	0.01	0.38	2.2	<0.2	0.4	18.3	<0.01	0.02	0.4
FGL067 00+00S		0.54	9.8	410	44.6	7.0	<0.001	0.01	1.75	2.9	0.3	0.3	43.6	<0.01	0.03	1.1
FGL067 00+50S		0.85	14.8	600	15.7	8.9	<0.001	0.03	0.85	3.4	0.3	0.4	86.8	<0.01	0.03	1.0
FGL067 01+00		0.94	13.8	340	22.8	8.4	<0.001	0.02	0.65	3.1	0.3	0.4	47.2	<0.01	0.02	1.1
FGL067 01+50S		0.60	9.6	1070	16.5	9.8	<0.001	0.12	0.60	3.0	0.6	0.3	88.4	<0.01	0.03	0.7
FGL067 02+00S		0.69	9.5	1210	12.7	7.5	<0.001	0.07	0.37	3.5	0.6	0.3	74.4	<0.01	0.03	1.0

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL061 00+00		0.036	0.06	0.42	29	0.10	3.50	39	<0.5
FGL061 05+50S		0.048	0.11	1.26	52	0.15	9.64	60	1.1
FGL061 01+00S		0.030	0.07	0.87	29	0.11	8.25	28	0.5
FGL061 02+00S		0.046	0.09	0.78	43	0.20	7.53	49	<0.5
FGL061 02+50S		0.078	0.12	0.49	71	0.20	4.44	58	0.7
FGL062 00+00		0.069	0.09	0.48	68	0.17	4.79	60	<0.5
FGL062 00+50N		0.087	0.09	0.44	66	0.19	3.39	52	1.3
FGL062 01+00N		0.038	0.09	0.52	51	0.12	4.09	47	<0.5
FGL062 01+50N		0.044	0.08	0.73	42	0.12	7.05	53	1.0
FGL062 02+00N		0.045	0.10	0.67	44	0.18	5.36	54	1.1
FGL062 02+50N		0.050	0.09	0.52	47	0.16	4.88	58	0.5
FGL063 00+00		0.041	0.05	0.52	44	0.18	6.69	56	<0.5
FGL063 00+50S		0.073	0.10	0.65	70	0.20	7.19	71	2.0
FGL063 01+00S		0.069	0.09	0.45	68	0.17	6.34	48	0.5
FGL063 02+00S		0.008	0.10	0.57	36	0.13	7.76	57	<0.5
FGL063 02+50S		0.068	0.10	0.46	54	0.16	5.18	55	1.3
FGL064 00+00		0.077	0.11	0.45	73	0.20	4.00	60	0.8
FGL064 00+50N		0.029	0.07	1.01	39	0.12	11.85	44	<0.5
FGL064 01+00N		0.042	0.06	0.42	59	0.15	4.29	64	<0.5
FGL064 01+50N		0.071	0.08	0.33	61	0.14	2.56	49	0.8
FGL064 02+00N		0.093	0.10	0.46	70	0.19	3.00	61	4.5
FGL064 02+50N		0.060	0.07	0.29	69	0.17	1.73	32	0.6
FGL064 04+00N		0.045	0.05	0.63	42	0.12	6.29	51	1.3
FGL064 05+50N		0.039	0.05	0.31	31	0.21	3.05	41	0.9
FGL064 06+50N		0.051	0.07	0.50	43	0.11	3.94	59	1.1
FGL064 07+50N		0.051	0.07	0.50	51	0.13	4.01	64	1.1
FGL064 08+00N		0.067	0.06	0.59	55	0.49	4.44	77	1.2
FGL064 08+50N		0.055	0.07	0.48	44	0.12	3.84	61	0.9
FGL065 00+00N		0.033	0.03	0.15	28	0.07	1.17	15	<0.5
FGL065 00+50N		0.024	0.03	0.26	25	0.05	1.75	16	<0.5
FGL065 01+00N		0.023	0.06	0.33	20	0.07	4.27	19	<0.5
FGL065 01+50N		0.038	0.08	1.76	50	0.11	20.2	63	1.6
FGL066 04+50N		0.082	0.11	0.58	66	0.22	7.00	43	1.9
FGL066 05+00S		0.039	0.07	0.32	46	0.14	3.34	34	<0.5
FGL066 05+50S		0.045	0.07	0.29	54	0.12	2.30	46	<0.5
FGL067 00+00S		0.021	0.08	0.51	41	0.12	5.27	181	0.5
FGL067 00+50S		0.041	0.09	0.54	47	0.18	6.84	73	0.9
FGL067 01+00		0.052	0.08	0.33	50	0.14	3.63	76	0.8
FGL067 01+50S		0.038	0.09	1.57	44	0.13	8.86	95	1.2
FGL067 02+00S		0.042	0.08	2.38	45	0.07	11.50	85	1.3

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL067 02+50S		0.36	0.0027	0.16	1.51	4.7	<0.02	<10	330	0.39	0.10	0.80	0.34	20.7	7.5	24
FGL067 03+00S		0.32	0.0008	0.13	0.98	2.2	<0.02	<10	160	0.18	0.09	0.09	0.30	7.26	2.0	9
FGL067 03+50S		0.32	0.0568	4.88	2.74	21.4	0.05	<10	640	0.60	6.67	0.40	0.61	22.5	8.0	35
FGL067 04+00S		0.36	0.0124	1.21	1.27	5.6	<0.02	<10	330	0.40	0.93	0.31	0.47	21.8	6.7	17
FGL067 04+50S		0.46	0.0067	1.27	2.00	8.8	<0.02	<10	920	0.66	0.61	0.56	0.57	38.1	7.4	29
FGL067 05+00S		0.37	0.0035	0.40	2.30	10.8	<0.02	<10	670	0.58	0.41	0.40	0.62	24.2	9.2	29
FGL067 05+50S		0.45	0.0062	0.19	1.65	10.6	<0.02	<10	390	0.42	0.72	0.28	0.54	19.10	8.4	25
FGL067 06+00S		0.50	0.0102	0.48	1.88	12.7	<0.02	<10	800	0.49	1.16	0.39	0.70	23.4	9.9	29
FGL067 06+50S		0.50	0.0101	0.93	1.93	15.4	<0.02	<10	370	0.49	1.05	0.28	0.46	18.20	7.2	30
FGL067 07+00S		0.51	0.0111	0.90	1.81	12.3	<0.02	<10	280	0.40	0.69	0.29	0.31	16.90	7.9	29
FGL067 07+50S		0.53	0.0022	0.55	1.25	7.8	<0.02	<10	340	0.26	0.45	0.29	0.27	15.85	5.9	20
FGL068 00+50N		0.50	0.0340	0.20	1.63	9.6	<0.02	<10	200	0.36	0.24	0.34	0.24	18.95	7.8	26
FGL068 04+00N		0.60	0.0116	0.03	1.96	5.2	<0.02	<10	270	0.57	0.08	0.45	0.08	25.9	9.2	26
FGL068 04+50N		0.55	0.0017	0.02	1.81	4.9	<0.02	<10	270	0.57	0.07	0.56	0.08	27.0	9.3	23
FGL068 05+00N		0.55	0.0055	0.09	2.48	8.5	<0.02	<10	330	0.63	0.15	0.33	0.16	32.2	10.1	33
FGL068 05+50N		0.39	0.0017	0.11	2.57	10.3	<0.02	<10	240	0.78	0.20	0.23	0.14	30.1	8.4	35
FGL068 06+00N		0.73	0.0015	0.07	2.49	9.8	<0.02	<10	290	0.61	0.14	0.24	0.14	26.7	9.5	32
FGL068 06+50N		0.51	0.0023	0.10	2.13	8.7	0.14	<10	230	0.71	0.14	0.24	0.10	33.8	8.0	31
FGL068 07+00N		0.57	0.0005	0.05	2.13	7.3	<0.02	<10	180	0.46	0.10	0.21	0.13	20.6	8.5	20
FGL068 07+50N		0.64	0.0020	0.11	2.20	9.0	<0.02	<10	250	0.63	0.13	0.25	0.05	34.6	8.3	33
FGL068 08+00N		0.54	0.0018	0.12	1.77	6.6	<0.02	<10	190	0.44	0.11	0.26	0.06	17.20	6.0	23
FGL068 11+00N		0.54	0.0025	0.12	2.12	7.8	<0.02	<10	250	0.49	0.13	0.73	0.10	28.5	9.3	24
FGL068 01+50S		0.25	0.0032	0.64	0.98	4.4	<0.02	<10	160	0.20	0.29	0.13	1.58	10.00	2.2	10
FGL068 01+50S		0.29	0.0025	0.71	1.03	4.4	<0.02	<10	160	0.21	0.21	0.12	2.30	9.01	3.0	12
FGL068 02+00S		0.37	0.0059	0.27	1.95	10.7	<0.02	<10	240	0.37	0.34	0.26	1.94	18.95	8.7	29
FGL068 02+50S		0.36	0.0046	0.60	1.33	5.6	<0.02	<10	210	0.34	0.20	0.18	0.71	13.45	5.4	17
FGL068 03+00S		0.39	0.0034	0.90	1.59	5.3	<0.02	<10	450	0.42	0.19	0.32	0.70	18.50	5.7	19
FGL068 03+50S		0.31	0.0029	0.18	1.59	8.6	<0.02	<10	380	0.34	0.23	0.35	1.52	21.2	8.7	29
FGL068 04+00S		0.49	0.0024	0.31	1.34	5.0	<0.02	<10	330	0.32	0.15	0.33	0.61	14.85	5.7	20
FGL068 04+50S		0.41	0.0032	0.40	1.39	4.4	<0.02	<10	320	0.36	0.11	0.32	0.55	17.15	5.6	19
FGL069 00+00		0.39	0.0024	0.19	1.43	5.5	<0.02	<10	410	0.28	0.15	0.49	0.55	15.25	6.7	22
FGL069 00+50N		0.51	0.0162	0.13	1.28	5.8	<0.02	<10	370	0.35	0.15	0.46	0.50	21.5	7.2	24
FGL069 01+00N		0.51	0.0056	0.26	1.54	6.6	<0.02	<10	530	0.45	0.17	0.48	0.41	22.3	6.2	26
FGL069 01+50N		0.30	0.0035	0.36	1.24	5.0	<0.02	<10	650	0.36	0.13	0.66	0.60	15.35	5.2	17
FGL069 02+00N		0.45	0.0060	0.51	1.57	6.9	<0.02	<10	860	0.42	0.18	0.48	0.65	21.0	5.3	22
FGL069 02+50N		0.37	0.0029	0.27	1.35	7.8	<0.02	<10	410	0.37	0.20	0.28	0.75	17.90	5.8	23
FGL069 03+00N		0.34	0.0033	0.26	1.11	4.6	<0.02	<10	370	0.37	0.14	0.20	0.29	17.90	3.9	14
FGL069 03+50N		0.24	0.0091	0.47	1.27	6.4	<0.02	<10	400	0.40	0.21	0.16	1.23	23.5	5.6	18
FGL069 04+00N		0.36	0.0093	1.15	1.39	8.8	<0.02	<10	420	0.52	0.35	0.23	5.06	18.30	6.1	20
FGL069 05+00N		0.37	0.0027	0.18	2.31	8.7	<0.02	<10	470	0.63	0.17	0.22	0.30	18.65	7.9	25

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL067 02+50S		1.91	16.9	1.97	5.54	<0.05	0.03	0.07	0.018	0.04	11.9	11.2	0.50	303	0.26	0.02	
FGL067 03+00S		1.64	12.2	0.74	3.34	<0.05	<0.02	0.02	0.010	0.04	3.8	4.3	0.12	65	0.26	0.03	
FGL067 03+50S		8.93	191.0	3.04	7.53	<0.05	0.02	0.21	0.105	0.09	13.7	13.1	0.44	411	1.05	0.02	
FGL067 04+00S		2.72	83.8	1.96	4.35	<0.05	0.03	0.07	0.029	0.04	11.8	5.4	0.23	342	0.36	0.02	
FGL067 04+50S		3.65	81.6	2.23	5.65	0.05	0.04	0.09	0.036	0.06	24.7	10.5	0.46	334	0.47	0.01	
FGL067 05+00S		3.48	58.2	2.63	6.68	<0.05	0.02	0.04	0.039	0.07	13.6	12.0	0.47	576	0.60	0.02	
FGL067 05+50S		2.04	32.8	2.38	5.43	<0.05	0.03	0.02	0.039	0.06	9.9	11.2	0.53	417	0.47	0.01	
FGL067 06+00S		2.03	49.8	2.77	6.15	<0.05	0.03	0.02	0.056	0.07	12.9	12.8	0.56	497	0.60	0.01	
FGL067 06+50S		1.43	33.6	2.82	6.13	<0.05	0.04	0.02	0.056	0.06	9.0	15.3	0.53	243	0.76	0.01	
FGL067 07+00S		1.27	25.2	2.59	5.95	<0.05	0.04	0.02	0.040	0.05	8.7	13.3	0.48	238	0.68	0.01	
FGL067 07+50S		0.98	22.7	1.83	4.75	<0.05	0.02	0.02	0.029	0.05	9.1	8.4	0.36	264	0.55	0.02	
FGL068 00+50N		1.58	22.8	2.33	5.53	<0.05	0.03	0.02	0.027	0.05	9.5	12.0	0.53	311	0.58	0.01	
FGL068 04+00N		0.59	14.4	2.60	6.56	<0.05	<0.02	0.02	0.019	0.05	13.8	13.7	0.76	422	0.35	0.01	
FGL068 04+50N		0.52	13.1	2.58	6.46	<0.05	0.02	0.01	0.019	0.04	14.1	13.4	0.77	447	0.30	0.01	
FGL068 05+00N		1.27	29.4	2.87	8.01	<0.05	0.02	0.03	0.031	0.07	19.0	17.3	0.66	421	1.11	0.02	
FGL068 05+50N		1.33	19.7	3.20	8.95	<0.05	<0.02	0.03	0.030	0.08	13.2	16.6	0.59	336	0.80	0.01	
FGL068 06+00N		1.18	20.1	2.79	6.74	<0.05	0.02	0.02	0.025	0.07	12.8	14.5	0.59	350	0.64	0.01	
FGL068 06+50N		1.12	15.9	2.73	6.92	<0.05	<0.02	0.02	0.025	0.07	15.8	14.3	0.54	307	0.66	0.02	
FGL068 07+00N		1.06	14.0	2.74	7.26	<0.05	<0.02	0.02	0.024	0.07	8.5	15.5	0.58	319	0.49	0.02	
FGL068 07+50N		1.07	19.2	2.76	6.49	<0.05	0.05	0.03	0.023	0.07	18.3	14.2	0.60	258	0.52	0.01	
FGL068 08+00N		0.88	14.6	2.21	5.66	<0.05	<0.02	0.06	0.020	0.06	8.6	11.0	0.44	221	0.53	0.02	
FGL068 11+00N		1.14	12.3	3.19	7.39	0.05	0.07	0.03	0.030	0.05	18.3	15.6	0.72	580	0.44	0.03	
FGL068 01+00S		1.71	19.1	1.02	3.70	<0.05	<0.02	0.03	0.023	0.06	5.1	4.5	0.15	95	0.37	0.02	
FGL068 01+50S		2.02	16.7	1.27	3.84	<0.05	<0.02	0.02	0.018	0.05	4.7	5.0	0.17	131	0.35	0.02	
FGL068 02+00S		2.18	26.9	2.53	5.87	<0.05	0.02	0.02	0.037	0.07	9.6	13.0	0.52	460	0.67	0.01	
FGL068 02+50S		2.01	21.7	1.65	4.60	<0.05	<0.02	0.02	0.021	0.06	6.9	6.7	0.25	272	0.48	0.02	
FGL068 03+00S		2.28	27.9	1.72	4.87	<0.05	<0.02	0.04	0.025	0.06	10.6	7.9	0.28	339	0.38	0.03	
FGL068 03+50S		1.52	23.2	2.51	5.83	<0.05	0.02	0.04	0.028	0.07	10.3	12.4	0.59	520	0.57	0.02	
FGL068 04+00S		1.52	20.5	1.89	4.93	<0.05	<0.02	0.02	0.021	0.06	7.3	7.9	0.33	309	0.39	0.03	
FGL068 04+50S		1.14	19.9	1.73	4.39	<0.05	0.02	0.04	0.018	0.06	8.8	7.1	0.30	319	0.35	0.03	
FGL069 00+00		1.16	17.3	1.90	5.23	<0.05	<0.02	0.02	0.026	0.07	7.5	8.3	0.39	403	0.49	0.02	
FGL069 00+50N		1.31	18.2	2.13	4.98	<0.05	0.03	0.01	0.027	0.06	11.2	9.0	0.52	425	0.44	0.02	
FGL069 01+00N		1.41	23.0	2.09	5.07	<0.05	0.02	0.03	0.029	0.06	11.6	10.4	0.50	313	0.42	0.02	
FGL069 01+50N		1.29	33.1	1.59	3.90	<0.05	0.03	0.05	0.029	0.05	7.6	5.7	0.23	493	0.50	0.03	
FGL069 02+00N		1.99	32.7	1.86	4.80	<0.05	0.03	0.06	0.036	0.06	11.7	8.8	0.36	342	0.39	0.02	
FGL069 02+50N		1.62	19.3	2.03	4.89	<0.05	<0.02	0.03	0.037	0.06	9.4	11.6	0.44	295	0.49	0.02	
FGL069 03+00N		1.69	23.8	1.43	3.92	<0.05	<0.02	0.03	0.030	0.06	9.0	4.7	0.16	189	0.41	0.03	
FGL069 03+50N		2.30	40.4	1.77	4.71	<0.05	<0.02	0.09	0.042	0.06	12.7	6.5	0.25	292	0.48	0.02	
FGL069 04+00N		4.05	78.9	1.91	5.09	<0.05	<0.02	0.06	0.066	0.07	11.6	8.2	0.27	502	0.55	0.02	
FGL069 05+00N		6.00	22.4	2.41	7.55	<0.05	0.02	0.03	0.027	0.08	9.7	11.4	0.31	310	0.66	0.03	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL067 02+50S		0.75	10.8	1070	13.5	6.1	<0.001	0.05	0.39	3.6	0.6	0.3	74.2	<0.01	0.01	1.2	
FGL067 03+00S		0.44	4.3	300	10.4	6.1	<0.001	0.02	0.24	0.8	<0.2	0.2	16.4	<0.01	0.01	<0.2	
FGL067 03+50S		0.85	18.3	820	112.0	14.1	<0.001	0.04	4.11	5.3	0.7	0.5	43.5	<0.01	0.05	0.8	
FGL067 04+00S		0.57	8.7	760	32.1	5.1	<0.001	0.01	0.93	3.2	0.5	0.2	25.6	<0.01	0.02	1.0	
FGL067 04+50S		0.76	17.2	840	34.0	8.7	<0.001	0.03	1.06	4.5	0.9	0.4	46.0	<0.01	0.02	1.1	
FGL067 05+00S		0.92	16.1	530	37.3	11.4	<0.001	0.02	0.79	4.7	0.4	0.4	35.9	<0.01	0.02	1.2	
FGL067 05+50S		0.88	12.9	430	42.5	7.3	<0.001	0.01	1.23	3.5	0.2	0.4	22.4	<0.01	0.02	1.8	
FGL067 06+00S		1.01	15.3	530	78.7	9.7	<0.001	0.01	1.25	4.5	0.4	0.4	31.6	<0.01	0.02	1.9	
FGL067 06+50S		1.17	19.0	280	104.0	9.1	<0.001	0.01	1.45	3.6	0.2	0.5	22.3	<0.01	0.03	2.1	
FGL067 07+00S		1.23	16.6	420	102.0	7.9	<0.001	0.01	1.07	3.3	0.2	0.5	21.4	<0.01	0.03	2.2	
FGL067 07+50S		0.92	10.7	360	61.7	6.8	<0.001	0.01	0.85	2.5	0.2	0.4	26.4	<0.01	0.02	1.2	
FGL068 00+50N		1.02	14.1	570	58.4	7.9	<0.001	0.01	1.45	3.4	0.3	0.4	25.0	<0.01	0.01	2.1	
FGL068 04+00N		0.83	13.4	940	7.4	5.5	<0.001	0.01	0.23	4.2	0.4	0.4	33.7	<0.01	0.02	1.6	
FGL068 04+50N		0.75	12.3	1190	7.0	4.6	<0.001	0.01	0.27	4.1	0.3	0.4	39.6	<0.01	0.01	1.9	
FGL068 05+00N		1.05	26.5	590	14.8	9.3	0.001	0.03	0.37	4.5	0.6	0.6	29.5	<0.01	0.02	1.5	
FGL068 05+50N		1.49	18.9	610	12.4	11.5	<0.001	0.02	0.36	4.1	0.6	0.7	22.5	<0.01	0.03	1.7	
FGL068 06+00N		1.32	22.0	570	11.2	8.9	<0.001	0.01	0.40	4.0	0.4	0.5	20.8	<0.01	0.02	2.0	
FGL068 06+50N		1.28	16.6	450	10.2	9.5	<0.001	0.01	0.35	4.0	0.4	0.5	22.1	<0.01	0.02	1.8	
FGL068 07+00N		1.06	12.7	450	7.8	7.3	<0.001	0.02	0.30	3.4	0.4	0.5	22.7	<0.01	0.01	1.5	
FGL068 07+50N		1.42	19.5	430	8.8	7.4	<0.001	0.02	0.33	5.2	0.9	0.5	20.4	<0.01	0.02	3.7	
FGL068 08+00N		0.96	12.7	490	6.5	6.1	<0.001	0.02	0.23	2.6	0.4	0.4	20.2	<0.01	0.03	0.7	
FGL068 11+00N		0.79	11.9	1070	10.0	5.3	<0.001	0.02	0.69	5.4	0.4	0.5	64.6	<0.01	0.01	4.3	
FGL068 01+00S		0.71	5.3	240	66.5	5.9	<0.001	0.01	0.59	1.3	<0.2	0.3	14.1	<0.01	0.01	0.4	
FGL068 01+50S		0.74	6.5	200	95.9	6.9	<0.001	0.01	0.39	1.5	0.2	0.3	14.6	<0.01	<0.01	0.6	
FGL068 02+00S		1.16	17.2	290	160.0	9.2	<0.001	0.02	0.81	3.2	0.3	0.5	21.7	<0.01	0.02	1.6	
FGL068 02+50S		0.90	8.9	290	91.0	8.4	<0.001	0.02	0.44	2.0	0.2	0.3	18.8	<0.01	0.01	0.7	
FGL068 03+00S		0.65	11.2	520	124.5	8.0	<0.001	0.03	0.48	2.5	0.4	0.3	27.5	<0.01	0.01	0.5	
FGL068 03+50S		1.08	16.9	480	117.0	8.4	<0.001	0.02	0.69	3.4	0.4	0.4	28.0	<0.01	0.02	1.6	
FGL068 04+00S		0.72	10.8	490	64.5	8.6	<0.001	0.03	0.42	2.5	0.4	0.3	26.2	<0.01	0.02	0.8	
FGL068 04+50S		0.63	10.5	550	67.4	6.3	<0.001	0.03	0.39	2.7	0.4	0.3	25.4	<0.01	0.01	0.6	
FGL069 00+00		0.73	11.0	450	48.1	8.0	<0.001	0.03	0.50	2.4	0.2	0.3	37.6	<0.01	0.01	0.5	
FGL069 00+50N		0.89	12.7	660	59.6	6.2	<0.001	0.02	0.70	3.2	<0.2	0.3	30.1	<0.01	0.02	1.6	
FGL069 01+00N		0.83	14.6	570	67.9	6.6	<0.001	0.03	0.61	3.3	0.5	0.3	37.2	<0.01	0.01	1.1	
FGL069 01+50N		0.57	10.2	730	43.6	5.1	<0.001	0.06	0.71	1.9	0.5	0.2	50.9	<0.01	0.02	0.4	
FGL069 02+00N		0.74	13.6	650	81.3	7.0	<0.001	0.04	0.78	3.5	0.9	0.3	38.4	<0.01	0.02	1.0	
FGL069 02+50N		0.95	12.7	270	82.4	6.9	<0.001	0.01	0.66	2.5	<0.2	0.4	22.2	<0.01	0.02	0.9	
FGL069 03+00N		0.59	7.6	290	54.3	6.3	<0.001	0.01	0.41	2.1	0.4	0.3	20.2	<0.01	<0.01	0.6	
FGL069 03+50N		0.84	9.6	230	93.9	8.1	<0.001	0.01	0.75	2.4	0.3	0.3	19.7	<0.01	0.02	1.0	
FGL069 04+00N		0.96	11.0	380	426	11.3	<0.001	0.02	1.07	2.4	0.3	0.4	22.7	<0.01	0.02	0.8	
FGL069 05+00N		1.21	13.8	380	29.6	11.5	<0.001	0.02	0.39	3.5	0.4	0.5	23.1	<0.01	0.02	1.3	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL067 02+50S		0.061	0.06	1.66	49	0.12	8.75	78	1.1
FGL067 03+00S		0.024	0.05	0.28	16	0.08	1.73	46	<0.5
FGL067 03+50S		0.042	0.17	1.01	59	0.15	9.60	340	0.6
FGL067 04+00S		0.061	0.09	0.55	56	0.09	8.60	155	1.2
FGL067 04+50S		0.040	0.09	0.86	46	0.11	23.0	250	1.2
FGL067 05+00S		0.046	0.09	0.58	56	0.14	9.28	257	0.8
FGL067 05+50S		0.063	0.08	0.38	53	0.10	4.26	185	1.0
FGL067 06+00S		0.057	0.08	0.59	60	0.12	7.89	156	1.1
FGL067 06+50S		0.061	0.10	0.38	59	0.20	4.12	117	1.6
FGL067 07+00S		0.067	0.10	0.37	60	0.15	3.78	98	1.8
FGL067 07+50S		0.057	0.07	0.36	48	0.10	4.15	93	0.6
FGL068 00+50N		0.081	0.08	0.39	58	0.14	4.03	95	1.3
FGL068 04+00N		0.072	0.05	0.79	54	0.11	7.40	67	<0.5
FGL068 04+50N		0.082	0.04	0.77	52	0.12	7.49	69	0.6
FGL068 05+00N		0.066	0.12	0.77	61	0.16	13.65	67	0.6
FGL068 05+50N		0.076	0.13	0.64	74	0.20	5.47	64	0.6
FGL068 06+00N		0.065	0.12	0.58	59	0.18	6.33	60	0.8
FGL068 06+50N		0.070	0.10	0.66	63	0.19	8.79	53	0.5
FGL068 07+00N		0.045	0.07	0.45	57	0.15	3.91	58	<0.5
FGL068 07+50N		0.079	0.11	0.91	61	0.19	11.80	52	2.0
FGL068 08+00N		0.057	0.09	0.46	54	0.16	4.28	44	<0.5
FGL068 11+00N		0.066	0.07	1.54	72	0.09	8.89	89	2.1
FGL068 01+00S		0.036	0.07	0.28	27	0.14	2.09	190	<0.5
FGL068 01+50S		0.038	0.08	0.25	32	0.11	1.89	275	0.5
FGL068 02+00S		0.056	0.13	0.41	54	0.16	3.30	396	0.7
FGL068 02+50S		0.046	0.08	0.36	41	0.12	2.89	187	<0.5
FGL068 03+00S		0.040	0.10	0.50	41	0.11	6.21	214	<0.5
FGL068 03+50S		0.073	0.09	0.41	55	0.12	5.07	265	0.9
FGL068 04+00S		0.056	0.08	0.35	48	0.12	4.14	157	0.5
FGL068 04+50S		0.050	0.07	0.33	43	0.09	5.08	119	0.5
FGL069 00+00		0.050	0.07	0.35	44	0.11	3.73	130	<0.5
FGL069 00+50N		0.068	0.08	0.35	49	0.10	5.48	167	1.1
FGL069 01+00N		0.051	0.07	0.46	45	0.15	7.60	164	0.9
FGL069 01+50N		0.033	0.07	0.45	37	0.09	6.33	110	1.1
FGL069 02+00N		0.040	0.08	0.56	41	0.11	11.55	199	1.3
FGL069 02+50N		0.052	0.10	0.36	49	0.12	4.80	190	<0.5
FGL069 03+00N		0.042	0.07	0.38	39	0.10	6.22	135	<0.5
FGL069 03+50N		0.047	0.08	0.41	46	0.12	6.28	235	0.5
FGL069 04+00N		0.045	0.12	0.42	47	0.12	5.14	601	<0.5
FGL069 05+00N		0.054	0.11	0.47	64	0.16	4.39	83	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL069 05+50N		0.40	0.0019	0.04	2.52	11.6	<0.02	<10	200	0.54	0.18	0.20	0.38	20.9	11.1	40
FGL069 06+50N		0.34	0.0029	0.23	1.43	6.7	<0.02	<10	280	0.42	0.13	0.47	0.48	23.0	10.7	28
FGL069 07+50N		0.63	0.0029	0.13	1.95	6.9	<0.02	<10	280	0.52	0.11	0.71	0.34	22.4	12.1	36
FGL069 08+00N		0.38	0.0010	0.04	2.02	6.4	<0.02	<10	190	0.34	0.09	0.53	0.16	16.30	12.9	31
FGL069 08+50N		0.44	0.0012	0.08	1.70	4.7	<0.02	<10	260	0.29	0.11	0.48	0.10	19.60	7.7	37
FGL069 10+50N		0.48	0.0034	0.09	2.27	7.1	<0.02	<10	170	0.48	0.12	0.23	0.14	19.85	8.2	29
FGL069 11+00N		0.50	0.0019	0.07	2.23	9.3	<0.02	<10	290	0.66	0.16	0.40	0.11	31.4	7.9	34
FGL069 11+50N		0.88	0.0030	0.04	1.82	6.4	<0.02	<10	250	0.57	0.11	0.41	0.08	26.2	7.8	26
FGL069 12+00N		0.72	0.0007	0.03	1.04	3.1	<0.02	<10	90	0.26	0.07	0.18	0.07	11.80	3.7	13
FGL069 12+50N		0.69	0.0022	0.02	2.00	7.1	<0.02	<10	260	0.65	0.12	0.46	0.06	28.4	8.5	30
FGL069 13+00N		0.51	0.0014	0.05	1.66	6.4	<0.02	<10	210	0.45	0.11	0.45	0.07	23.2	10.2	23
FGL069 16+00N		0.51	0.0074	0.38	1.91	12.0	<0.02	<10	380	0.87	0.37	0.59	0.25	43.4	8.9	35
FGL069 16+50N		0.60	0.0039	0.17	2.03	11.5	<0.02	<10	370	0.68	0.18	0.58	0.27	31.1	10.5	38
FGL070 00+00		0.64	0.0016	0.03	1.82	9.7	<0.02	<10	540	0.36	0.14	0.22	0.14	18.45	7.8	26
FGL070 00+50N		0.58	0.0019	0.04	2.05	10.4	<0.02	<10	240	0.44	0.14	0.19	0.08	19.60	7.8	30
FGL070 01+00N		0.63	0.0021	0.07	1.96	11.6	<0.02	<10	310	0.42	0.14	0.24	0.09	22.1	7.5	28
FGL070 01+50N		0.62	0.0017	0.04	1.77	8.9	<0.02	<10	400	0.42	0.12	0.30	0.11	22.7	8.3	26
FGL070 04+50N		0.53	0.0069	0.47	1.56	10.8	<0.02	<10	340	0.41	0.45	0.46	0.47	22.7	7.3	30
FGL070 05+50N		0.81	0.0039	0.31	1.68	12.5	<0.02	<10	270	0.39	0.42	0.37	0.50	19.65	7.3	29
FGL070 06+00N		0.71	0.0037	0.15	1.44	14.0	<0.02	<10	280	0.43	0.43	0.43	0.58	23.9	8.8	29
FGL070 07+00N		0.45	0.0050	0.43	1.61	15.3	<0.02	<10	400	0.42	0.43	0.41	0.54	19.45	7.7	28
FGL070 07+50N		0.42	0.0038	0.37	1.48	11.5	<0.02	<10	410	0.41	0.27	0.42	0.48	22.1	7.9	28
FGL070 08+00N		0.32	0.0077	0.95	1.79	18.3	<0.02	<10	640	0.64	0.46	0.46	0.82	30.4	8.0	30
FGL070 09+00N		0.52	0.0036	0.45	1.81	15.9	<0.02	<10	330	0.45	0.49	0.27	1.10	19.50	8.4	30
FGL070 09+50N		0.49	0.0060	1.03	1.96	22.3	<0.02	<10	380	0.56	0.77	0.32	2.49	19.95	9.0	29
FGL070 10+50N		0.60	0.0539	3.44	2.25	130.5	0.02	<10	250	0.56	7.48	0.27	2.32	18.35	10.5	41
FGL070 11+00N		0.66	0.0096	0.65	2.25	23.6	<0.02	<10	220	0.52	0.50	0.29	0.84	21.8	9.0	35
FGL070 11+50N		0.41	0.0020	0.35	2.21	10.1	<0.02	<10	180	0.49	0.23	0.20	0.51	19.70	6.3	30
FGL070 12+00N		0.64	0.0021	0.03	1.58	6.7	<0.02	<10	130	0.33	0.10	0.39	0.12	19.55	8.4	26
FGL070 13+50N		0.66	0.0015	0.05	1.93	6.6	<0.02	<10	130	0.42	0.11	0.28	0.10	18.20	7.2	28
FGL070 14+50N		0.90	0.0024	0.21	1.78	6.0	<0.02	<10	420	0.53	0.10	0.52	0.24	25.7	9.2	28
FGL070 15+50N		0.49	0.0076	0.65	1.80	7.7	0.05	<10	290	0.30	0.11	0.40	0.13	19.70	7.6	21
FGL070 16+00N		0.44	0.0015	0.06	2.88	10.1	<0.02	<10	240	0.83	0.15	0.34	0.06	25.9	8.2	31
FGL070 16+50N		0.46	0.0016	0.06	2.27	8.4	<0.02	<10	230	0.61	0.12	0.31	0.06	21.6	7.6	25
FGL070 17+00N		0.49	0.0155	0.15	2.04	7.6	<0.02	<10	390	0.64	0.12	0.51	0.04	23.9	7.1	23
FGL070 18+00N		0.71	0.0015	0.07	2.67	9.5	<0.02	<10	220	0.68	0.13	0.38	0.11	21.9	10.6	26
FGL070 18+50N		0.45	0.0013	0.06	2.07	7.9	<0.02	<10	130	0.45	0.10	0.23	0.10	17.10	7.7	24
FGL070 19+50N		0.51	0.0025	0.16	2.39	10.1	<0.02	<10	550	0.95	0.14	0.76	0.11	36.2	10.5	38
FGL070 20+00N		0.46	0.0021	0.05	1.59	6.7	<0.02	<10	160	0.34	0.10	0.22	0.06	15.15	5.6	22
FGL070 20+50N		0.42	0.0011	0.05	1.18	7.2	<0.02	<10	110	0.22	0.15	0.20	0.09	18.30	3.9	18

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CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL069 05+50N		1.61	22.7	3.33	7.08	<0.05	0.04	0.02	0.032	0.07	10.3	19.8	0.59	319	0.89	0.01
FGL069 06+50N		2.00	23.7	2.09	5.13	<0.05	0.02	0.04	0.020	0.04	11.6	12.0	0.47	405	0.63	0.03
FGL069 07+50N		4.59	30.1	2.73	7.31	0.05	0.04	0.03	0.026	0.05	12.3	15.2	0.69	427	0.62	0.02
FGL069 08+00N		2.61	17.8	2.93	8.17	<0.05	0.02	0.01	0.021	0.08	7.3	16.5	0.75	466	0.49	0.02
FGL069 08+50N		1.81	15.3	2.08	5.88	<0.05	<0.02	0.02	0.021	0.05	9.9	12.2	0.61	209	0.45	0.02
FGL069 10+50N		1.13	15.0	2.55	6.81	<0.05	<0.02	0.02	0.023	0.07	9.8	14.9	0.59	303	0.51	0.01
FGL069 11+00N		1.50	21.6	2.66	7.26	<0.05	0.02	0.02	0.024	0.07	16.4	13.8	0.54	304	0.70	0.02
FGL069 11+50N		1.55	18.0	2.48	6.27	0.05	<0.02	0.01	0.019	0.07	15.0	11.9	0.58	378	0.46	0.02
FGL069 12+00N		0.67	17.8	1.22	3.41	<0.05	<0.02	0.01	0.009	0.05	5.5	6.0	0.22	112	0.29	0.03
FGL069 12+50N		1.63	16.3	2.60	6.49	0.05	0.06	0.01	0.024	0.07	15.2	14.4	0.66	276	0.45	0.02
FGL069 13+00N		1.60	14.8	2.35	6.37	0.07	0.05	0.02	0.020	0.06	10.2	16.3	0.61	401	0.70	0.02
FGL069 16+00N		1.69	26.6	2.74	7.26	0.12	0.05	0.03	0.027	0.06	42.3	17.8	0.75	434	1.08	0.02
FGL069 16+50N		1.40	21.2	2.89	7.68	0.08	0.04	0.04	0.027	0.06	20.9	18.5	0.85	609	0.49	0.02
FGL070 00+00		1.56	15.6	2.75	6.50	0.06	0.02	0.01	0.022	0.10	9.1	14.0	0.41	353	0.77	0.02
FGL070 00+50N		1.98	16.0	2.84	7.07	0.06	0.09	0.03	0.023	0.06	10.1	17.1	0.46	207	0.79	0.02
FGL070 01+00N		2.57	15.9	2.61	6.93	0.06	<0.02	0.02	0.024	0.08	11.1	15.7	0.45	294	0.68	0.02
FGL070 01+50N		2.66	11.6	2.58	6.33	0.07	<0.02	0.02	0.029	0.08	10.8	15.0	0.43	328	0.62	0.02
FGL070 04+50N		1.56	34.1	2.25	6.21	0.06	0.05	0.05	0.038	0.06	12.2	12.6	0.60	285	0.39	0.02
FGL070 05+50N		1.89	29.2	2.30	6.14	0.06	0.02	0.03	0.033	0.06	9.8	13.5	0.57	335	0.51	0.02
FGL070 06+00N		1.90	32.3	2.35	6.05	0.07	0.05	0.02	0.033	0.05	11.7	12.6	0.64	461	0.48	0.02
FGL070 07+00N		2.05	42.4	2.33	5.69	0.06	0.03	0.04	0.042	0.06	10.3	12.1	0.54	436	0.48	0.02
FGL070 07+50N		1.62	31.5	2.21	5.37	0.08	0.02	0.02	0.027	0.05	11.6	12.9	0.54	384	0.47	0.02
FGL070 08+00N		2.77	66.1	2.45	6.07	0.09	0.03	0.07	0.038	0.07	19.2	12.9	0.51	537	0.54	0.03
FGL070 09+00N		2.87	47.6	2.50	6.10	0.06	0.02	0.03	0.038	0.08	10.2	14.7	0.59	413	0.55	0.02
FGL070 09+50N		4.35	66.9	2.68	7.33	0.06	<0.02	0.03	0.050	0.11	10.6	14.3	0.51	449	0.74	0.02
FGL070 10+50N		4.69	99.8	3.19	7.22	0.07	0.04	0.10	0.118	0.08	8.7	16.7	0.69	443	0.83	0.02
FGL070 11+00N		3.28	80.3	2.68	6.13	0.07	0.04	0.06	0.050	0.09	9.4	15.4	0.59	319	0.62	0.02
FGL070 11+50N		1.80	21.2	2.81	8.35	0.06	0.02	0.02	0.033	0.05	10.3	15.1	0.38	181	0.99	0.02
FGL070 12+00N		1.87	17.4	2.19	5.20	0.07	0.03	0.01	0.023	0.06	9.2	11.7	0.57	264	0.37	0.02
FGL070 13+50N		1.76	12.5	2.31	5.87	0.06	0.03	0.02	0.023	0.06	9.3	12.8	0.51	222	0.45	0.02
FGL070 14+50N		2.25	17.2	2.65	7.19	0.08	0.04	0.02	0.026	0.06	13.8	14.1	0.66	345	0.47	0.02
FGL070 15+50N		1.42	8.7	2.49	8.24	0.07	<0.02	0.01	0.020	0.07	9.1	15.1	0.65	388	0.46	0.01
FGL070 16+00N		1.53	15.6	2.93	8.58	0.07	0.02	0.02	0.029	0.08	14.3	17.5	0.57	292	0.75	0.02
FGL070 16+50N		1.16	19.0	2.50	7.60	0.06	0.02	0.03	0.030	0.08	9.8	15.4	0.52	298	0.59	0.02
FGL070 17+00N		1.36	14.0	2.36	7.84	0.07	<0.02	0.02	0.026	0.05	11.7	15.2	0.52	366	0.60	0.02
FGL070 18+00N		1.24	14.9	3.11	9.76	0.08	0.02	0.02	0.031	0.07	10.9	20.1	0.68	431	0.64	0.02
FGL070 18+50N		0.99	20.0	2.18	5.88	0.06	0.02	0.03	0.022	0.06	7.9	12.8	0.42	200	0.54	0.02
FGL070 19+50N		1.23	36.4	3.08	7.74	0.10	0.08	0.04	0.031	0.09	22.4	17.6	0.71	480	0.57	0.02
FGL070 20+00N		1.29	13.3	2.01	6.17	0.06	<0.02	0.02	0.018	0.05	8.1	12.6	0.40	176	0.47	0.02
FGL070 20+50N		1.19	10.5	1.78	6.89	0.06	<0.02	0.01	0.017	0.05	9.3	9.4	0.31	136	0.64	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL069 05+50N		1.73	23.1	460	20.9	10.0	<0.001	0.01	0.50	4.4	0.3	0.6	20.2	0.01	0.03	3.3
FGL069 06+50N		0.83	16.5	770	26.2	5.3	<0.001	0.03	0.82	3.7	0.7	0.3	69.8	<0.01	0.02	1.0
FGL069 07+50N		1.00	19.3	1060	21.8	7.0	<0.001	0.02	0.60	6.3	0.4	0.4	55.7	<0.01	0.02	1.9
FGL069 08+00N		1.22	17.0	1260	13.1	8.0	<0.001	0.02	0.35	3.7	<0.2	0.4	25.0	<0.01	0.02	1.5
FGL069 08+50N		0.93	16.1	680	11.0	5.9	<0.001	0.02	0.30	3.6	0.3	0.4	40.1	<0.01	0.02	1.0
FGL069 10+50N		1.01	15.9	580	9.3	9.2	<0.001	0.02	0.29	2.8	0.3	0.5	19.8	<0.01	0.01	0.6
FGL069 11+00N		1.17	19.9	600	10.6	8.7	<0.001	0.02	0.38	4.8	0.5	0.5	30.5	<0.01	0.02	1.7
FGL069 11+50N		0.85	14.6	600	7.5	6.4	<0.001	0.01	0.43	4.1	0.5	0.4	29.7	<0.01	0.02	1.1
FGL069 12+00N		0.53	7.0	410	3.8	4.0	<0.001	0.01	0.16	1.2	0.3	0.2	16.3	<0.01	0.01	0.2
FGL069 12+50N		1.23	19.9	690	8.0	7.7	<0.001	0.01	0.37	4.5	0.5	0.5	28.7	<0.01	0.02	3.0
FGL069 13+00N		1.04	19.3	820	10.4	6.8	0.001	0.01	0.27	3.9	0.3	0.5	28.2	<0.01	0.02	2.2
FGL069 16+00N		0.97	23.4	730	41.3	7.9	0.001	0.02	1.36	6.3	1.0	0.5	34.3	<0.01	0.06	3.6
FGL069 16+50N		0.85	19.6	860	26.8	8.3	<0.001	0.02	1.39	5.5	0.5	0.5	41.4	<0.01	0.02	3.1
FGL070 00+00		1.21	16.3	290	8.7	11.7	<0.001	0.01	0.39	3.1	0.4	0.5	22.2	<0.01	0.02	1.9
FGL070 00+50N		1.42	17.7	360	8.3	8.8	<0.001	<0.01	0.40	3.8	0.4	0.6	17.2	<0.01	0.02	3.3
FGL070 01+00N		1.39	16.1	490	8.7	10.4	<0.001	0.01	0.41	3.4	0.6	0.5	19.5	<0.01	0.01	1.6
FGL070 01+50N		1.04	16.1	590	7.1	10.6	<0.001	0.01	0.33	3.3	0.3	0.5	25.5	<0.01	0.01	1.2
FGL070 04+50N		0.97	15.0	700	87.0	6.5	<0.001	0.01	1.98	4.5	0.3	0.4	29.5	<0.01	0.02	2.5
FGL070 05+50N		0.99	15.2	530	60.8	7.8	<0.001	0.01	1.69	3.9	0.3	0.4	26.5	<0.01	<0.01	1.6
FGL070 06+00N		0.99	15.5	620	75.3	6.7	<0.001	<0.01	2.17	4.3	0.6	0.4	27.0	<0.01	0.01	2.4
FGL070 07+00N		0.89	15.2	550	67.6	7.3	<0.001	0.01	1.98	4.1	0.3	0.4	29.8	<0.01	0.03	1.7
FGL070 07+50N		1.04	17.0	620	43.9	7.1	<0.001	0.01	1.05	3.8	0.4	0.4	29.4	<0.01	0.02	1.8
FGL070 08+00N		0.87	19.4	600	75.2	8.0	<0.001	0.02	2.14	6.1	0.9	0.4	33.8	<0.01	0.02	1.8
FGL070 09+00N		1.10	19.0	290	91.0	10.5	<0.001	0.01	1.79	4.0	0.3	0.5	21.5	<0.01	0.01	2.2
FGL070 09+50N		1.18	18.7	440	152.5	15.0	<0.001	0.01	2.87	4.0	0.4	0.5	29.4	<0.01	0.02	1.3
FGL070 10+50N		0.95	23.6	310	492	11.3	<0.001	0.02	22.3	5.7	0.6	0.5	23.8	<0.01	0.04	2.7
FGL070 11+00N		1.14	23.2	520	100.5	10.2	<0.001	0.01	2.32	5.0	0.5	0.5	22.8	<0.01	0.01	3.1
FGL070 11+50N		1.76	14.0	360	40.2	9.7	<0.001	0.01	0.44	3.8	0.5	0.7	18.8	<0.01	0.03	1.8
FGL070 12+00N		1.10	16.7	800	18.9	7.1	<0.001	0.01	0.42	3.4	0.4	0.4	21.2	<0.01	0.01	2.2
FGL070 13+50N		1.24	14.9	570	11.4	8.0	<0.001	0.01	0.33	3.7	0.4	0.4	17.8	<0.01	0.01	2.2
FGL070 14+50N		0.96	15.0	890	12.4	7.2	<0.001	0.01	0.53	4.9	0.5	0.4	37.4	<0.01	0.02	2.4
FGL070 15+50N		0.91	12.2	490	12.5	7.4	<0.001	0.01	0.24	3.3	0.2	0.5	34.2	<0.01	0.02	2.1
FGL070 16+00N		1.55	19.3	520	10.6	9.1	<0.001	0.01	0.30	4.6	0.5	0.6	28.9	<0.01	0.02	2.1
FGL070 16+50N		1.12	19.2	520	8.7	9.1	<0.001	0.01	0.31	3.7	0.4	0.5	25.7	<0.01	0.02	1.8
FGL070 17+00N		1.14	12.8	520	8.4	7.5	<0.001	0.01	0.23	3.5	0.3	0.5	43.7	<0.01	0.06	2.1
FGL070 18+00N		1.38	18.4	790	9.1	8.7	<0.001	0.01	0.32	4.2	0.4	0.6	29.2	<0.01	0.01	1.5
FGL070 18+50N		1.20	16.4	530	7.0	7.3	<0.001	0.01	0.30	3.2	0.4	0.4	19.5	<0.01	0.02	1.4
FGL070 19+50N		1.14	23.2	880	8.9	9.4	<0.001	0.02	0.41	7.1	1.1	0.6	64.0	<0.01	0.02	3.0
FGL070 20+00N		0.89	12.7	290	5.5	7.0	<0.001	0.01	0.18	2.8	0.3	0.4	19.6	<0.01	0.02	0.7
FGL070 20+50N		1.23	8.7	230	10.2	7.9	<0.001	<0.01	0.25	2.1	0.3	0.6	17.6	<0.01	0.01	1.2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL069 05+50N		0.100	0.11	0.56	73	0.22	3.61	90	2.1
FGL069 06+50N		0.076	0.09	1.19	56	0.14	7.43	105	0.7
FGL069 07+50N		0.123	0.11	0.70	74	0.15	8.70	104	1.6
FGL069 08+00N		0.158	0.06	0.34	78	0.12	3.93	71	1.0
FGL069 08+50N		0.090	0.07	0.49	55	0.23	4.62	53	0.6
FGL069 10+50N		0.070	0.09	0.50	59	0.15	3.80	57	<0.5
FGL069 11+00N		0.073	0.12	0.82	65	0.17	8.94	60	0.6
FGL069 11+50N		0.070	0.07	0.65	57	0.13	8.60	58	<0.5
FGL069 12+00N		0.044	0.05	0.30	31	0.09	2.32	27	<0.5
FGL069 12+50N		0.085	0.11	0.60	61	0.16	6.64	58	2.0
FGL069 13+00N		0.067	0.09	0.59	51	0.12	5.44	53	1.3
FGL069 16+00N		0.050	0.09	0.89	55	0.97	18.20	130	1.3
FGL069 16+50N		0.047	0.08	0.98	58	0.19	12.20	118	1.1
FGL070 00+00		0.056	0.09	0.32	59	0.15	2.70	65	0.7
FGL070 00+50N		0.081	0.10	0.47	63	0.17	3.62	49	4.0
FGL070 01+00N		0.064	0.12	0.41	59	0.17	4.07	52	0.5
FGL070 01+50N		0.051	0.10	0.41	52	0.17	4.45	59	<0.5
FGL070 04+50N		0.087	0.10	0.52	53	0.16	6.52	210	2.0
FGL070 05+50N		0.067	0.13	0.42	52	0.15	4.44	185	0.8
FGL070 06+00N		0.090	0.12	0.43	53	0.15	5.66	221	2.1
FGL070 07+00N		0.061	0.12	0.50	51	0.11	5.88	206	0.9
FGL070 07+50N		0.070	0.11	0.52	51	0.13	6.47	137	0.9
FGL070 08+00N		0.054	0.15	0.81	53	0.15	16.45	222	0.9
FGL070 09+00N		0.065	0.15	0.43	57	0.12	4.04	293	1.0
FGL070 09+50N		0.061	0.18	0.50	61	0.16	4.56	485	0.6
FGL070 10+50N		0.089	0.37	0.44	69	0.17	3.84	547	1.7
FGL070 11+00N		0.079	0.24	0.57	60	0.17	4.44	320	1.6
FGL070 11+50N		0.089	0.12	0.53	76	0.22	4.34	65	0.9
FGL070 12+00N		0.098	0.08	0.40	56	0.13	4.58	52	1.3
FGL070 13+50N		0.089	0.10	0.48	56	0.17	4.21	51	1.0
FGL070 14+50N		0.073	0.08	0.79	56	0.13	8.12	77	1.5
FGL070 15+50N		0.045	0.06	0.37	56	0.14	3.99	74	0.6
FGL070 16+00N		0.082	0.13	0.58	70	0.23	6.26	52	0.6
FGL070 16+50N		0.044	0.10	0.53	56	0.23	5.04	49	0.5
FGL070 17+00N		0.046	0.09	0.83	58	0.18	5.40	48	0.5
FGL070 18+00N		0.109	0.08	0.61	72	0.27	4.95	63	0.7
FGL070 18+50N		0.067	0.08	0.51	49	0.22	3.42	39	0.6
FGL070 19+50N		0.065	0.09	4.59	63	0.18	19.10	65	2.2
FGL070 20+00N		0.058	0.06	0.35	48	0.13	3.96	35	<0.5
FGL070 20+50N		0.066	0.08	0.34	56	0.17	2.36	30	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL070 21+00N		0.48	0.0025	0.14	2.20	9.7	<0.02	<10	230	0.52	0.15	0.41	0.08	20.4	8.0	32
FGL070 22+00N		0.30	0.0010	0.09	1.98	11.1	<0.02	<10	280	0.55	0.18	0.38	0.19	22.8	8.1	29
FGL070 22+50N		0.36	0.0039	0.11	1.84	8.6	<0.02	<10	420	0.70	0.26	0.44	0.23	33.9	8.9	29
FGL070 23+00N		0.42	0.0026	0.11	1.94	9.6	<0.02	<10	300	0.58	0.17	0.43	0.09	32.4	8.8	30

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CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL070 21+00N		1.82	17.8	2.92	8.04	0.07	0.02	0.02	0.028	0.07	10.3	18.5	0.58	254	0.68	0.02
FGL070 22+00N		1.66	20.7	2.76	8.10	0.06	<0.02	0.03	0.028	0.06	11.6	17.0	0.48	354	0.76	0.02
FGL070 22+50N		1.70	20.8	2.52	5.62	0.08	0.02	0.02	0.023	0.07	17.9	14.8	0.56	389	0.44	0.02
FGL070 23+00N		1.35	20.8	2.55	6.23	0.07	0.02	0.02	0.023	0.06	17.3	14.2	0.57	376	0.64	0.02

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CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL070 21+00N		1.46	17.4	440	10.6	9.0	<0.001	0.01	0.34	4.1	0.4	0.6	31.7	<0.01	0.02	2.0
FGL070 22+00N		1.20	14.5	540	10.8	6.6	<0.001	0.01	0.41	3.2	0.5	0.5	30.8	<0.01	0.02	1.1
FGL070 22+50N		0.99	21.0	750	13.1	8.5	<0.001	0.01	0.55	3.9	0.5	0.4	29.6	<0.01	0.03	2.4
FGL070 23+00N		1.16	19.4	840	12.4	8.5	<0.001	0.01	0.46	4.4	0.7	0.5	29.5	<0.01	0.02	2.3

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Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL070 21+00N		0.072	0.11	0.54	68	0.17	4.09	50	0.8
FGL070 22+00N		0.056	0.11	0.70	72	0.20	5.12	60	<0.5
FGL070 22+50N		0.055	0.09	0.75	48	0.16	9.35	66	0.5
FGL070 23+00N		0.062	0.11	1.16	55	0.21	8.78	65	0.8

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CERTIFICATE OF ANALYSIS WH17164274

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
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CERTIFICATE WH17164282

Project: Freegold Mtn - Tinta Property

P.O. No.: 1005139- NOFREG- R1

This report is for 156 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL071 01+00S		0.51	0.0011	0.06	2.39	6.6	<0.02	<10	260	0.67	0.14	0.21	0.05	31.9	8.1	33
FGL071 01+50S		0.38	0.0006	0.05	1.21	12.7	<0.02	<10	100	0.40	0.13	0.22	0.15	18.50	7.6	24
FGL071 02+00S		0.40	0.0026	0.07	2.59	11.3	<0.02	<10	260	0.95	0.14	0.28	0.10	28.8	9.1	37
FGL071 02+50S		0.44	0.0012	0.15	2.06	8.1	<0.02	<10	310	0.64	0.17	0.28	0.10	22.9	9.4	30
FGL071 03+00S		0.54	0.0008	0.05	2.08	7.6	<0.02	<10	240	0.44	0.11	0.30	0.08	19.55	8.4	26
FGL071 03+50S		0.45	0.0008	0.06	1.18	4.2	<0.02	<10	120	0.31	0.07	0.24	0.04	15.45	5.3	17
FGL071 04+00S		0.49	0.0014	0.05	1.73	5.5	<0.02	<10	240	0.63	0.09	0.50	0.06	26.7	8.1	26
FGL071 04+50S		0.39	0.0025	0.05	2.75	13.7	<0.02	<10	170	0.69	0.16	0.43	0.10	27.7	8.8	23
FGL071 05+00S		0.40	0.0026	0.04	2.60	9.4	<0.02	<10	160	0.52	0.12	0.26	0.09	17.90	10.2	29
FGL071 05+50S		0.35	0.0040	0.02	2.17	7.7	<0.02	<10	150	0.53	0.10	0.22	0.09	21.0	9.5	27
FGL071 06+00S		0.40	0.0022	0.03	2.12	8.9	<0.02	<10	140	0.47	0.13	0.23	0.09	18.00	7.9	28
FGL071 06+50S		0.48	0.0014	0.04	2.48	8.5	<0.02	<10	190	0.67	0.11	0.21	0.11	20.5	9.9	28
FGL071 07+00S		0.48	0.0061	0.05	2.50	8.4	<0.02	<10	240	0.61	0.11	0.28	0.14	21.9	9.9	29
FGL071 08+00S		0.39	0.0047	0.08	0.83	2.4	<0.02	<10	90	0.16	0.07	0.14	0.07	9.03	2.8	11
FGL071 08+50S		0.46	0.0073	0.05	1.72	7.7	<0.02	<10	190	0.41	0.12	0.31	0.11	22.1	8.6	27
FGL071 09+00S		0.35	0.0023	0.04	1.13	4.9	<0.02	<10	120	0.30	0.08	0.22	0.09	15.20	5.7	17
FGL071 09+50S		0.39	0.0011	0.10	1.77	6.4	<0.02	<10	220	0.50	0.12	0.24	0.11	18.00	7.3	21
FGL071 10+00S		0.41	0.0019	0.04	2.12	9.7	<0.02	<10	150	0.41	0.14	0.28	0.15	16.10	8.5	30
FGL071 10+50S		0.35	0.0015	0.14	1.78	9.1	<0.02	<10	140	0.38	0.13	0.19	0.31	16.10	7.7	31
FGL071 11+50S		0.44	0.0021	0.46	1.39	6.8	<0.02	<10	160	0.35	0.10	0.18	0.29	15.60	7.9	21
FGL071 12+00S		0.48	0.0034	0.78	2.16	13.3	<0.02	<10	160	0.43	0.11	0.25	1.07	15.70	11.3	37
FGL071 12+50S		0.35	0.0345	0.78	1.53	11.4	<0.02	<10	160	0.39	0.11	0.22	1.68	15.60	6.5	26
FGL071 13+00S		0.44	0.0060	1.19	1.86	13.2	<0.02	<10	200	0.41	0.19	0.21	1.47	20.0	7.1	31
FGL071 13+50S		0.42	0.0070	1.05	1.39	9.4	0.09	<10	500	0.42	0.20	0.28	1.39	21.1	7.3	24
FGL071 14+00S		0.41	0.0060	2.03	1.83	12.5	<0.02	<10	830	0.58	0.29	0.57	1.82	25.3	8.3	30
FGL071 14+50S		0.36	0.0087	1.36	1.52	11.4	<0.02	<10	500	0.53	0.60	0.49	2.80	25.5	8.2	26
FGL071 15+00S		0.47	0.0105	1.20	1.62	10.5	<0.02	<10	420	0.47	0.26	0.60	1.85	23.9	7.7	28
FGL071 15+50S		0.60	0.0059	0.71	1.50	9.0	<0.02	<10	330	0.42	0.22	0.54	1.39	21.6	6.8	27
FGL071 16+00S		0.42	0.0043	0.69	1.66	10.1	<0.02	<10	310	0.42	0.21	0.54	0.84	18.85	7.3	26
FGL071 16+50S		0.56	0.0026	0.20	1.42	6.6	<0.02	<10	230	0.37	0.13	0.41	0.36	20.4	7.3	25
FGL071 17+00S		0.73	0.0036	0.26	1.54	7.2	<0.02	<10	310	0.41	0.13	0.47	0.28	22.3	7.0	27
FGL071 20+00S		0.28	0.0009	0.09	1.32	3.6	<0.02	<10	510	0.40	0.08	0.33	0.08	23.4	3.6	13
FGL071 20+50S		0.47	0.0012	0.03	1.33	5.5	<0.02	<10	230	0.30	0.09	0.20	0.05	15.40	4.9	19
FGL071 21+00S		0.42	0.0009	0.03	2.08	10.9	<0.02	<10	240	0.40	0.14	0.20	0.10	19.55	9.4	30
FGL071 21+50S		0.30	0.0012	0.05	1.53	6.6	<0.02	<10	180	0.34	0.11	0.17	0.07	18.25	6.2	21
FGL071 22+00S		0.45	0.0011	0.05	2.11	10.0	<0.02	<10	310	0.41	0.17	0.19	0.21	17.75	8.7	30
FGL071 22+50S		0.66	0.0195	0.03	1.57	8.4	<0.02	<10	690	0.41	0.11	0.28	0.06	20.3	7.5	27
FGL072 00+00		0.60	0.0026	0.45	1.22	5.1	<0.02	<10	540	0.34	0.08	0.43	0.46	15.20	6.9	17
FGL072 00+50N		0.35	0.0062	2.41	1.17	6.5	<0.02	<10	530	0.39	0.08	0.60	0.71	14.40	5.4	14
FGL072 01+00N		0.47	0.0036	2.62	0.74	3.5	<0.02	<10	190	0.21	0.05	0.12	1.02	8.66	4.3	9

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL071 01+00S		1.37	10.7	2.72	7.79	0.06	0.05	0.01	0.027	0.06	17.8	14.5	0.56	318	0.59	0.02	
FGL071 01+50S		1.49	16.3	2.26	4.30	0.05	<0.02	0.03	0.020	0.06	8.4	9.2	0.31	415	0.54	0.03	
FGL071 02+00S		1.19	29.0	2.83	6.56	0.07	0.05	0.02	0.027	0.07	12.2	14.7	0.61	295	0.64	0.02	
FGL071 02+50S		1.28	22.6	2.77	7.52	0.07	<0.02	0.08	0.027	0.06	12.1	14.8	0.46	722	0.97	0.01	
FGL071 03+00S		0.99	19.9	2.64	6.65	0.05	0.03	0.01	0.024	0.07	8.9	16.1	0.58	278	0.63	0.02	
FGL071 03+50S		0.70	14.6	1.65	4.08	0.06	<0.02	0.01	0.013	0.05	8.2	6.5	0.27	175	0.35	0.02	
FGL071 04+00S		0.79	14.9	2.31	5.98	0.08	0.04	0.02	0.020	0.05	14.2	12.5	0.67	418	0.34	0.02	
FGL071 04+50S		1.65	11.9	3.42	8.35	0.08	0.06	0.01	0.032	0.08	12.2	17.2	0.47	363	1.04	0.01	
FGL071 05+00S		1.18	16.8	2.83	7.36	0.07	0.05	0.02	0.030	0.06	8.8	15.4	0.59	289	0.67	0.01	
FGL071 05+50S		0.89	14.9	2.40	5.77	0.07	0.02	0.02	0.027	0.06	10.2	13.4	0.50	271	0.57	0.02	
FGL071 06+00S		1.27	17.3	2.54	6.17	0.06	0.02	0.02	0.025	0.07	8.6	15.1	0.46	237	0.63	0.02	
FGL071 06+50S		1.59	20.6	2.48	5.83	0.07	0.04	0.02	0.026	0.08	9.6	14.8	0.49	287	0.49	0.01	
FGL071 07+00S		3.82	17.8	2.73	6.98	0.07	0.05	0.01	0.029	0.12	10.1	14.5	0.56	325	0.56	0.02	
FGL071 08+00S		0.97	10.6	1.05	3.42	0.06	<0.02	0.03	0.009	0.04	4.6	4.3	0.17	81	0.35	0.02	
FGL071 08+50S		1.44	15.0	2.26	5.81	0.07	0.03	0.02	0.022	0.06	11.1	13.3	0.53	296	0.55	0.01	
FGL071 09+00S		1.06	14.0	1.52	3.90	0.07	<0.02	0.02	0.014	0.05	7.4	8.2	0.33	217	0.37	0.02	
FGL071 09+50S		2.41	15.8	1.96	6.11	0.08	<0.02	0.02	0.019	0.06	8.5	11.3	0.39	242	0.59	0.02	
FGL071 10+00S		1.23	20.2	2.76	7.26	0.06	0.04	0.02	0.023	0.09	7.4	15.3	0.48	260	0.69	0.02	
FGL071 10+50S		1.98	15.4	2.47	6.35	0.07	0.04	0.01	0.024	0.06	7.5	13.8	0.44	223	0.62	0.02	
FGL071 11+50S		4.22	19.7	1.90	5.32	0.06	0.02	0.03	0.019	0.04	8.3	8.5	0.30	464	0.67	0.03	
FGL071 12+00S		4.12	20.5	2.97	7.51	0.06	0.04	0.03	0.028	0.06	7.3	15.8	0.73	421	0.71	0.02	
FGL071 12+50S		3.44	17.0	2.13	5.28	0.06	0.02	0.03	0.029	0.07	7.8	11.4	0.47	280	0.59	0.02	
FGL071 13+00S		3.06	19.2	2.48	6.82	0.08	0.07	0.03	0.037	0.09	10.3	14.4	0.51	268	0.86	0.01	
FGL071 13+50S		2.70	23.2	1.88	4.86	0.07	0.02	0.14	0.036	0.06	11.9	9.0	0.36	366	0.66	0.02	
FGL071 14+00S		2.33	39.8	2.32	6.32	0.07	0.03	0.07	0.056	0.06	13.7	12.6	0.49	346	0.63	0.02	
FGL071 14+50S		1.92	34.4	2.11	4.85	0.07	0.04	0.09	0.048	0.06	13.5	9.0	0.42	414	0.69	0.02	
FGL071 15+00S		1.95	31.4	2.20	5.71	0.08	0.04	0.05	0.066	0.06	12.9	11.2	0.56	348	0.47	0.02	
FGL071 15+50S		1.59	26.4	1.98	5.30	0.07	0.03	0.04	0.054	0.06	10.3	10.6	0.52	298	0.49	0.02	
FGL071 16+00S		1.80	24.3	2.26	6.09	0.07	0.02	0.03	0.045	0.06	9.7	11.5	0.51	359	0.55	0.02	
FGL071 16+50S		1.31	16.0	2.13	5.66	0.07	0.05	0.01	0.026	0.05	11.0	10.4	0.55	319	0.40	0.02	
FGL071 17+00S		1.34	19.7	2.16	6.01	0.08	0.05	0.03	0.028	0.06	12.5	10.4	0.56	279	0.42	0.02	
FGL071 20+00S		2.68	13.9	1.20	4.60	0.08	<0.02	0.03	0.017	0.06	12.3	6.2	0.20	124	0.38	0.03	
FGL071 20+50S		1.54	11.4	1.75	4.66	0.06	<0.02	0.01	0.016	0.05	7.9	8.5	0.28	161	0.60	0.02	
FGL071 21+00S		1.86	15.8	2.76	5.78	0.07	0.03	0.01	0.025	0.07	10.0	15.7	0.46	289	1.12	0.02	
FGL071 21+50S		1.53	13.6	2.03	6.31	0.06	<0.02	0.01	0.018	0.05	9.3	9.0	0.33	192	0.57	0.02	
FGL071 22+00S		1.75	14.1	3.03	7.65	0.07	0.08	0.01	0.030	0.07	9.1	15.6	0.48	296	0.88	0.02	
FGL071 22+50S		2.52	12.9	2.23	5.53	0.06	0.02	0.01	0.022	0.06	10.7	13.1	0.46	260	0.73	0.02	
FGL072 00+00		2.14	19.0	1.84	4.80	0.06	<0.02	0.04	0.018	0.05	8.0	5.9	0.24	268	0.53	0.03	
FGL072 00+50N		1.79	22.3	1.74	4.78	0.07	0.03	0.05	0.020	0.04	7.6	5.0	0.20	279	0.46	0.03	
FGL072 01+00N		1.67	15.4	1.04	3.19	0.06	<0.02	0.03	0.010	0.04	4.9	3.8	0.15	205	0.31	0.02	

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL071 01+00S		1.29	15.4	210	8.6	7.6	<0.001	<0.01	0.28	4.3	0.4	0.6	18.9	<0.01	0.02	3.4	
FGL071 01+50S		0.42	14.8	590	22.4	7.0	<0.001	0.01	0.70	2.0	0.4	0.3	20.0	<0.01	0.02	0.5	
FGL071 02+00S		1.70	21.0	380	8.9	8.2	<0.001	0.01	0.35	4.6	0.7	0.5	21.4	<0.01	0.03	3.4	
FGL071 02+50S		1.16	14.2	460	7.5	8.5	<0.001	0.01	0.27	3.1	0.5	0.6	23.8	<0.01	0.04	0.6	
FGL071 03+00S		1.28	17.0	320	7.3	7.9	<0.001	<0.01	0.29	3.6	0.4	0.5	26.7	<0.01	0.04	1.9	
FGL071 03+50S		0.66	10.7	520	4.6	5.3	<0.001	<0.01	0.25	2.3	0.4	0.3	17.1	<0.01	0.02	0.7	
FGL071 04+00S		1.06	14.7	730	6.7	5.6	<0.001	0.01	0.26	4.6	0.7	0.4	37.5	<0.01	0.02	1.9	
FGL071 04+50S		1.20	11.5	690	8.0	13.7	<0.001	0.01	0.29	3.9	0.3	0.6	28.4	<0.01	0.03	2.9	
FGL071 05+00S		1.64	20.1	500	9.1	8.0	<0.001	0.01	0.36	4.3	0.6	0.5	29.6	<0.01	0.03	2.3	
FGL071 05+50S		1.27	18.1	450	9.2	7.1	<0.001	0.01	0.29	3.9	0.6	0.5	21.0	<0.01	0.02	1.7	
FGL071 06+00S		1.55	16.4	490	9.9	8.1	<0.001	0.01	0.30	3.2	0.4	0.5	20.2	<0.01	0.03	1.4	
FGL071 06+50S		1.43	19.2	610	9.3	9.6	<0.001	0.01	0.34	4.0	0.4	0.4	16.5	<0.01	0.03	2.2	
FGL071 07+00S		1.27	20.4	600	24.7	11.4	<0.001	0.01	0.50	4.7	0.7	0.5	22.7	<0.01	0.02	3.2	
FGL071 08+00S		0.30	5.6	390	4.4	5.4	<0.001	0.02	0.16	0.8	0.2	0.3	14.0	<0.01	0.01	<0.2	
FGL071 08+50S		1.35	15.5	740	10.4	8.8	<0.001	0.01	0.28	3.5	0.4	0.5	19.7	<0.01	0.02	1.9	
FGL071 09+00S		0.74	11.4	540	6.8	6.0	<0.001	0.01	0.23	1.9	0.4	0.3	18.1	<0.01	0.01	0.5	
FGL071 09+50S		0.98	13.3	570	8.7	9.0	<0.001	0.02	0.25	2.2	0.6	0.4	19.6	<0.01	0.02	0.3	
FGL071 10+00S		1.59	17.6	380	11.3	8.2	<0.001	0.02	0.38	3.3	0.4	0.6	25.3	<0.01	0.02	1.7	
FGL071 10+50S		1.38	14.9	380	12.8	9.1	<0.001	<0.01	0.39	3.3	0.3	0.5	16.4	<0.01	0.02	2.1	
FGL071 11+50S		1.07	10.2	260	43.8	7.5	<0.001	0.01	0.48	3.2	0.6	0.4	17.3	<0.01	0.01	1.0	
FGL071 12+00S		1.25	20.3	320	68.2	10.3	<0.001	<0.01	0.98	4.7	0.4	0.5	20.3	<0.01	0.03	2.0	
FGL071 12+50S		1.08	14.5	390	315	10.7	<0.001	0.01	1.41	3.2	0.3	0.4	17.7	<0.01	0.02	1.2	
FGL071 13+00S		1.40	17.1	390	257	11.6	<0.001	<0.01	1.46	4.2	0.6	0.6	17.7	<0.01	0.03	2.6	
FGL071 13+50S		0.97	13.8	390	212	6.8	<0.001	<0.01	1.18	3.7	0.5	0.4	24.6	<0.01	0.02	1.6	
FGL071 14+00S		1.08	17.7	650	233	6.7	<0.001	0.02	1.51	4.8	1.0	0.5	59.1	<0.01	0.03	1.2	
FGL071 14+50S		0.88	16.4	660	270	6.5	<0.001	0.03	1.94	4.0	0.9	0.3	48.2	<0.01	0.01	1.2	
FGL071 15+00S		1.04	16.3	640	283	7.5	<0.001	0.02	1.91	4.4	0.7	0.4	59.1	<0.01	0.02	1.7	
FGL071 15+50S		0.98	15.1	590	245	6.9	<0.001	0.02	1.55	3.7	0.4	0.4	51.4	<0.01	0.03	1.3	
FGL071 16+00S		1.07	14.2	500	167.5	7.8	<0.001	0.01	1.21	3.8	0.4	0.4	50.3	<0.01	0.03	1.5	
FGL071 16+50S		1.00	12.6	610	81.0	6.0	<0.001	<0.01	0.91	3.8	0.3	0.4	29.6	<0.01	0.01	2.1	
FGL071 17+00S		1.05	13.9	610	74.1	6.5	<0.001	0.01	0.90	4.8	0.4	0.4	35.1	<0.01	0.02	2.2	
FGL071 20+00S		0.47	8.3	430	4.2	8.1	<0.001	0.02	0.21	1.6	0.4	0.3	29.5	<0.01	0.02	<0.2	
FGL071 20+50S		0.94	9.8	370	4.9	6.7	<0.001	0.01	0.24	2.3	0.2	0.4	18.2	<0.01	0.01	0.9	
FGL071 21+00S		1.78	17.3	580	7.3	8.9	<0.001	0.01	0.40	3.6	0.6	0.5	16.6	<0.01	0.03	2.6	
FGL071 21+50S		1.07	11.7	300	6.1	6.8	<0.001	0.01	0.28	2.6	0.3	0.5	17.5	<0.01	0.02	0.9	
FGL071 22+00S		1.31	17.2	350	9.0	10.5	<0.001	<0.01	0.37	3.7	0.2	0.7	20.8	<0.01	0.03	2.7	
FGL071 22+50S		1.26	17.0	190	8.1	10.3	<0.001	<0.01	0.32	3.6	0.3	0.5	28.4	<0.01	0.03	2.3	
FGL072 00+00		0.67	9.6	450	49.8	6.0	<0.001	0.01	0.62	2.6	0.3	0.3	38.7	<0.01	0.02	0.7	
FGL072 00+50N		0.66	9.2	650	95.4	4.2	<0.001	0.03	1.34	2.4	0.6	0.3	52.5	<0.01	0.01	0.4	
FGL072 01+00N		0.50	5.5	210	83.9	5.0	<0.001	0.01	0.91	1.8	0.3	0.2	12.9	<0.01	<0.01	0.5	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL071 01+00S		0.058	0.11	0.52	64	0.16	6.02	46	1.9
FGL071 01+50S		0.025	0.06	0.43	37	0.13	2.76	81	<0.5
FGL071 02+00S		0.081	0.12	0.69	64	0.24	5.42	52	1.7
FGL071 02+50S		0.060	0.10	0.60	68	0.20	5.84	44	<0.5
FGL071 03+00S		0.058	0.07	0.43	57	0.14	4.73	50	1.2
FGL071 03+50S		0.056	0.06	0.35	44	0.10	4.81	31	<0.5
FGL071 04+00S		0.075	0.06	1.24	51	0.18	9.76	52	1.4
FGL071 04+50S		0.022	0.12	0.80	56	0.17	3.97	68	2.6
FGL071 05+00S		0.079	0.11	0.56	61	0.20	3.66	51	1.7
FGL071 05+50S		0.072	0.08	0.62	52	0.16	5.84	45	0.9
FGL071 06+00S		0.083	0.09	0.51	58	0.22	3.30	44	0.7
FGL071 06+50S		0.057	0.10	0.52	52	0.19	4.12	51	1.1
FGL071 07+00S		0.048	0.13	0.52	55	0.16	5.69	67	1.8
FGL071 08+00S		0.034	0.06	0.29	28	0.08	1.76	23	<0.5
FGL071 08+50S		0.073	0.10	0.56	54	0.16	4.81	52	0.9
FGL071 09+00S		0.052	0.06	0.38	38	0.17	3.18	35	<0.5
FGL071 09+50S		0.058	0.10	0.43	50	0.15	4.10	42	<0.5
FGL071 10+00S		0.106	0.09	0.37	73	0.19	2.86	51	1.5
FGL071 10+50S		0.089	0.10	0.38	63	0.17	2.74	54	1.7
FGL071 11+50S		0.064	0.12	0.42	52	0.14	4.44	63	0.9
FGL071 12+00S		0.097	0.14	0.40	74	0.17	3.43	153	1.4
FGL071 12+50S		0.063	0.16	0.36	53	0.37	3.20	474	0.6
FGL071 13+00S		0.074	0.14	0.41	60	0.15	4.32	354	2.6
FGL071 13+50S		0.049	0.10	0.49	46	0.13	6.80	233	0.7
FGL071 14+00S		0.047	0.11	0.78	55	0.17	11.00	324	0.9
FGL071 14+50S		0.052	0.09	0.58	47	0.12	11.10	301	1.3
FGL071 15+00S		0.061	0.11	0.53	50	0.11	7.89	368	1.4
FGL071 15+50S		0.055	0.09	0.49	45	0.18	5.99	269	1.0
FGL071 16+00S		0.061	0.10	0.49	53	0.15	4.85	220	0.9
FGL071 16+50S		0.086	0.08	0.40	51	0.10	4.93	152	2.0
FGL071 17+00S		0.088	0.08	0.50	50	0.11	8.11	148	2.2
FGL071 20+00S		0.027	0.08	0.36	24	0.13	6.38	28	<0.5
FGL071 20+50S		0.054	0.07	0.35	43	0.13	3.11	32	<0.5
FGL071 21+00S		0.077	0.10	0.46	58	0.32	3.79	53	1.3
FGL071 21+50S		0.066	0.09	0.34	51	0.11	2.77	35	0.5
FGL071 22+00S		0.090	0.13	0.41	71	0.17	2.80	81	3.8
FGL071 22+50S		0.066	0.10	0.42	50	0.16	3.88	47	0.9
FGL072 00+00		0.050	0.07	0.48	52	0.10	4.82	91	0.5
FGL072 00+50N		0.056	0.07	0.57	50	0.10	5.58	115	1.0
FGL072 01+00N		0.039	0.04	0.26	29	0.08	3.59	130	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL072 01+50N		0.65	0.0294	10.05	1.77	18.2	0.02	<10	610	0.74	0.11	0.49	10.50	29.4	7.1	28
FGL072 03+00N		0.61	0.0016	0.10	1.94	9.7	<0.02	<10	240	0.45	0.15	0.20	0.14	19.55	7.7	30
FGL072 03+50N		0.39	0.0008	0.09	1.16	5.1	<0.02	<10	130	0.26	0.10	0.14	0.09	13.20	4.9	18
FGL072 04+00N		0.54	0.0006	0.04	1.85	8.3	<0.02	<10	200	0.37	0.15	0.18	0.09	16.05	6.7	23
FGL072 04+50N		0.87	0.0004	0.05	1.65	8.4	<0.02	<10	200	0.31	0.13	0.17	0.15	15.95	6.8	24
FGL072 05+00N		0.57	0.0013	0.05	1.04	6.3	<0.02	<10	100	0.23	0.12	0.17	0.07	11.90	4.5	15
FGL072 05+50N		0.33	0.0009	0.07	0.84	3.0	<0.02	<10	80	0.21	0.07	0.12	0.07	9.07	3.8	12
FGL072 06+00N		0.37	0.0012	0.05	1.76	8.3	<0.02	<10	140	0.42	0.13	0.20	0.08	19.40	6.4	25
FGL072 06+50N		0.40	0.0013	0.07	1.86	8.4	<0.02	<10	120	0.42	0.14	0.20	0.08	21.9	5.9	24
FGL072 07+00N		0.34	0.0027	0.13	1.32	6.7	<0.02	<10	190	0.43	0.09	0.29	0.21	23.5	7.5	22
FGL072 07+50N		0.40	0.0014	0.08	2.32	10.4	<0.02	<10	200	0.54	0.15	0.26	0.18	18.45	7.9	28
FGL072 08+00N		0.33	0.0021	0.05	2.68	11.9	<0.02	<10	200	0.54	0.15	0.22	0.12	19.60	10.2	32
FGL072 08+50N		0.32	0.0014	0.07	2.34	10.1	<0.02	<10	140	0.54	0.14	0.18	0.15	17.55	8.5	27
FGL072 09+00N		0.48	0.0016	0.08	2.46	9.6	<0.02	<10	190	0.53	0.11	0.29	0.08	21.1	8.0	26
FGL072 09+50N		0.37	0.0012	0.07	1.91	6.9	<0.02	<10	150	0.51	0.13	0.17	0.07	19.55	6.7	23
FGL072 10+00N		0.49	0.0016	0.03	2.16	7.4	<0.02	<10	210	0.50	0.09	0.28	0.05	21.0	8.3	27
FGL072 10+50N		0.41	0.0006	0.05	1.98	6.1	<0.02	<10	170	0.47	0.11	0.22	0.06	19.65	7.6	23
FGL072 11+00N		0.42	0.0008	0.04	1.76	6.7	<0.02	<10	170	0.47	0.08	0.24	0.05	20.2	7.2	21
FGL072 11+50N		0.42	0.0028	0.06	2.16	9.8	<0.02	<10	170	0.54	0.14	0.19	0.06	27.6	8.6	33
FGL072 12+00N		0.38	0.0124	0.04	2.64	10.3	<0.02	<10	170	0.58	0.13	0.22	0.10	19.60	10.0	32
FGL072 12+50N		0.45	0.0010	0.04	2.15	9.3	<0.02	<10	160	0.46	0.12	0.26	0.08	16.00	9.2	34
FGL072 13+50N		0.32	0.0002	0.06	0.56	1.5	<0.02	<10	80	0.23	0.05	0.30	0.06	14.50	2.3	7
FGL072 14+00N		0.41	0.0013	0.02	1.87	9.4	<0.02	<10	140	0.35	0.12	0.21	0.08	18.55	7.0	26
FGL072 14+50N		0.42	0.0019	0.04	1.02	4.9	<0.02	<10	170	0.32	0.07	0.22	0.03	16.40	4.5	16
FGL072 00+50S		0.49	0.0126	0.66	1.49	8.9	<0.02	<10	520	0.41	0.09	0.57	0.94	20.5	8.3	29
FGL072 01+50S		0.66	0.0037	0.42	1.46	7.9	<0.02	<10	340	0.43	0.07	0.42	0.42	18.00	7.7	26
FGL072 02+00S		0.62	0.0101	0.36	1.80	7.4	<0.02	<10	380	0.45	0.07	0.65	0.67	20.1	9.3	35
FGL072 02+50S		0.84	0.0084	0.71	1.77	8.9	<0.02	<10	520	0.55	0.08	0.61	1.12	25.5	8.1	37
FGL072 04+00S		0.52	0.0036	0.04	1.41	4.1	<0.02	<10	210	0.30	0.08	0.30	0.07	16.85	6.5	19
FGL072 04+50S		0.57	0.0009	0.04	1.59	15.4	<0.02	<10	550	0.42	0.09	0.30	0.10	25.0	7.6	21
FGL072 05+00S		0.74	0.0011	0.03	1.53	6.0	<0.02	<10	210	0.37	0.09	0.24	0.08	18.45	6.5	21
FGL072 05+50S		0.69	0.0017	0.03	1.95	8.9	<0.02	<10	400	0.44	0.10	0.21	0.15	24.0	8.1	25
FGL072 06+00S		0.59	0.0010	0.04	2.24	8.9	<0.02	<10	290	0.52	0.13	0.23	0.08	22.1	8.3	30
FGL072 06+50S		0.75	0.0048	0.03	1.93	8.6	<0.02	<10	560	0.39	0.13	0.22	0.10	21.1	6.4	23
FGL072 07+00S		0.75	0.0036	0.02	1.99	9.2	<0.02	<10	490	0.67	0.12	0.17	0.06	38.1	7.7	26
FGL072 07+50S		0.73	0.0015	0.06	1.50	6.9	<0.02	<10	340	0.39	0.11	0.33	0.04	25.4	7.4	26
FGL072 08+00S		1.04	0.0033	0.02	1.75	9.9	<0.02	<10	460	0.38	0.12	0.27	0.10	20.5	7.7	26
FGL072 08+50S		0.71	0.0061	0.05	1.72	7.6	<0.02	<10	830	0.54	0.10	0.31	0.06	25.4	7.1	24
FGL073 00+00		0.69	0.0025	0.04	1.31	5.6	<0.02	<10	460	0.37	0.07	0.32	0.08	22.2	6.4	17
FGL073 00+50N		0.61	0.0006	0.05	1.66	8.3	<0.02	<10	230	0.34	0.15	0.17	0.10	17.45	9.0	26

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL072 01+50N		5.29	52.9	2.35	6.37	0.11	0.03	0.13	0.033	0.09	29.4	12.1	0.49	456	0.81	0.02
FGL072 03+00N		1.30	11.7	2.59	7.54	0.06	0.05	0.01	0.024	0.08	10.2	15.5	0.51	276	0.75	0.02
FGL072 03+50N		1.03	15.3	1.76	5.14	0.06	0.02	0.01	0.014	0.06	6.7	7.9	0.29	143	0.46	0.02
FGL072 04+00N		1.32	25.8	2.46	8.36	0.07	0.03	0.01	0.019	0.06	7.9	13.2	0.43	198	0.78	0.01
FGL072 04+50N		2.54	14.2	2.42	7.32	0.05	<0.02	0.01	0.019	0.07	7.8	15.2	0.42	357	0.72	0.01
FGL072 05+00N		1.24	13.6	1.63	5.35	0.06	<0.02	0.01	0.013	0.04	5.9	7.4	0.20	165	0.57	0.02
FGL072 05+50N		0.65	12.9	1.25	3.56	0.06	<0.02	0.01	0.010	0.04	4.9	4.7	0.19	116	0.36	0.02
FGL072 06+00N		1.16	15.1	2.07	6.02	0.06	0.02	0.02	0.020	0.05	10.0	11.6	0.42	186	0.58	0.01
FGL072 06+50N		1.62	14.8	2.23	6.84	0.07	0.02	0.02	0.021	0.05	12.7	12.8	0.37	161	0.61	0.01
FGL072 07+00N		1.99	13.5	2.02	4.39	0.07	<0.02	0.02	0.018	0.06	11.7	9.1	0.42	297	0.37	0.02
FGL072 07+50N		4.30	23.4	2.99	7.37	0.07	0.03	0.02	0.028	0.09	9.0	18.9	0.50	301	0.70	0.02
FGL072 08+00N		1.63	19.1	3.40	8.56	0.07	0.04	0.02	0.031	0.08	9.3	21.8	0.58	299	0.79	0.01
FGL072 08+50N		1.95	18.8	2.82	7.82	0.07	0.04	0.03	0.025	0.07	8.6	18.3	0.45	229	0.73	0.01
FGL072 09+00N		1.35	12.4	2.76	7.82	0.07	0.02	0.02	0.024	0.07	9.8	15.5	0.56	348	0.51	0.02
FGL072 09+50N		1.13	17.5	2.29	7.67	0.07	<0.02	0.02	0.021	0.04	9.0	10.9	0.38	260	0.70	0.02
FGL072 10+00N		1.21	16.5	2.52	6.76	0.06	<0.02	0.02	0.023	0.06	9.2	13.6	0.60	293	0.45	0.01
FGL072 10+50N		1.88	15.4	2.34	7.03	0.06	0.02	0.01	0.019	0.06	9.2	12.2	0.50	383	0.56	0.02
FGL072 11+00N		1.55	15.8	2.09	5.60	0.06	<0.02	0.01	0.019	0.06	9.3	10.3	0.48	313	0.40	0.02
FGL072 11+50N		1.11	17.9	2.54	6.52	0.08	0.06	0.02	0.024	0.06	14.5	14.1	0.54	248	0.66	0.02
FGL072 12+00N		1.11	14.0	2.52	6.07	0.06	0.08	0.01	0.026	0.07	9.8	16.0	0.53	278	0.57	0.02
FGL072 12+50N		1.05	19.4	2.86	8.04	0.07	0.08	0.01	0.023	0.08	7.9	15.2	0.69	327	0.61	0.02
FGL072 13+50N		0.63	10.1	0.85	2.78	0.05	<0.02	0.02	0.006	0.04	7.5	2.2	0.09	102	0.22	0.03
FGL072 14+00N		1.40	17.5	2.61	6.81	0.06	<0.02	0.02	0.022	0.07	8.5	12.7	0.46	235	0.72	0.02
FGL072 14+50N		1.36	7.6	1.52	4.32	0.06	<0.02	0.01	0.014	0.05	11.4	7.6	0.30	202	0.35	0.02
FGL072 00+50S		2.22	19.5	2.22	5.67	0.07	0.04	0.03	0.021	0.06	10.7	11.0	0.60	349	0.51	0.02
FGL072 01+50S		1.71	15.4	2.20	5.72	0.07	0.03	0.03	0.021	0.05	9.3	10.5	0.56	361	0.42	0.02
FGL072 02+00S		2.00	19.0	2.51	7.36	0.08	0.04	0.02	0.025	0.07	10.0	11.0	0.72	343	0.35	0.02
FGL072 02+50S		1.81	24.6	2.65	7.38	0.10	0.07	0.05	0.026	0.06	15.3	12.7	0.75	243	0.39	0.02
FGL072 04+00S		1.49	10.1	1.95	6.00	0.07	<0.02	0.01	0.019	0.06	8.7	9.3	0.38	314	0.39	0.02
FGL072 04+50S		2.33	12.3	2.35	6.41	0.07	<0.02	0.01	0.021	0.06	12.9	11.0	0.39	369	0.55	0.01
FGL072 05+00S		1.73	12.9	1.95	5.33	0.06	0.02	0.01	0.020	0.07	9.6	9.9	0.42	231	0.40	0.02
FGL072 05+50S		2.15	12.8	2.42	5.28	0.06	<0.02	0.02	0.025	0.08	9.2	11.7	0.46	330	0.50	0.02
FGL072 06+00S		2.16	18.5	2.59	6.58	0.07	0.02	0.02	0.024	0.07	10.2	13.9	0.45	268	0.69	0.02
FGL072 06+50S		2.06	13.5	2.41	7.15	0.07	<0.02	0.01	0.022	0.11	10.8	13.9	0.39	283	0.62	0.02
FGL072 07+00S		2.01	13.7	2.23	6.12	0.10	0.03	0.02	0.026	0.07	24.0	13.0	0.48	228	0.62	0.01
FGL072 07+50S		0.98	13.5	2.13	5.20	0.10	0.03	0.02	0.022	0.04	13.9	12.9	0.50	243	0.46	0.02
FGL072 08+00S		1.90	15.9	2.39	6.00	0.10	0.02	0.01	0.024	0.07	10.6	13.3	0.52	287	0.57	0.02
FGL072 08+50S		2.91	11.6	2.30	6.06	0.09	0.02	0.01	0.026	0.09	15.2	12.8	0.45	310	0.64	0.02
FGL073 00+00		2.25	8.6	2.18	5.91	0.09	<0.02	0.01	0.019	0.07	11.6	10.6	0.47	355	0.41	0.02
FGL073 00+50N		1.45	11.7	2.48	6.53	0.10	0.03	0.01	0.021	0.08	8.7	12.9	0.45	437	0.71	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL072 01+50N		1.04	16.9	500	1335	12.7	<0.001	0.01	6.06	7.0	1.2	0.4	28.8	<0.01	0.01	1.9
FGL072 03+00N		1.35	16.4	230	18.0	13.6	<0.001	<0.01	0.37	3.8	0.4	0.6	19.6	<0.01	0.01	2.4
FGL072 03+50N		1.16	10.0	230	8.0	7.5	<0.001	<0.01	0.24	2.2	0.3	0.4	13.9	<0.01	0.01	1.3
FGL072 04+00N		1.59	14.7	210	9.8	9.2	<0.001	0.01	0.35	3.1	0.3	0.6	21.2	<0.01	0.02	1.7
FGL072 04+50N		1.36	13.0	250	8.4	10.5	<0.001	<0.01	0.41	3.0	<0.2	0.5	19.2	<0.01	0.02	1.4
FGL072 05+00N		0.96	7.9	330	6.1	8.2	<0.001	0.01	0.29	1.7	0.4	0.4	15.9	<0.01	0.01	0.4
FGL072 05+50N		0.33	7.2	350	3.8	4.6	<0.001	0.01	0.16	0.8	0.3	0.2	12.3	<0.01	<0.01	<0.2
FGL072 06+00N		1.29	13.7	540	9.1	8.8	<0.001	0.01	0.26	3.4	0.5	0.5	14.1	<0.01	0.01	2.0
FGL072 06+50N		1.39	13.4	410	8.3	7.4	<0.001	0.01	0.32	3.7	0.5	0.5	16.6	<0.01	0.02	1.7
FGL072 07+00N		0.75	14.9	570	15.9	6.1	<0.001	<0.01	0.49	3.3	0.4	0.3	22.2	<0.01	0.01	1.1
FGL072 07+50N		1.51	18.3	460	11.7	10.1	<0.001	0.01	0.37	3.9	0.4	0.5	25.2	<0.01	0.03	2.3
FGL072 08+00N		1.89	20.2	510	12.6	8.8	<0.001	0.01	0.35	4.1	0.5	0.6	24.2	<0.01	0.02	2.5
FGL072 08+50N		1.84	16.4	430	11.1	10.7	<0.001	0.01	0.33	3.3	0.4	0.6	18.8	<0.01	0.02	2.3
FGL072 09+00N		1.26	14.6	560	8.6	9.0	<0.001	0.01	0.24	3.8	0.4	0.5	26.1	<0.01	0.01	2.2
FGL072 09+50N		1.18	11.8	430	8.6	9.1	<0.001	0.01	0.27	3.1	0.3	0.6	16.9	<0.01	0.02	0.8
FGL072 10+00N		0.91	16.1	440	7.1	6.8	<0.001	<0.01	0.28	3.6	0.3	0.4	24.9	<0.01	0.01	1.3
FGL072 10+50N		1.12	12.0	440	7.1	9.0	<0.001	0.01	0.27	3.2	0.3	0.4	20.3	<0.01	0.01	1.5
FGL072 11+00N		0.90	12.5	460	6.4	6.8	<0.001	0.01	0.31	3.1	0.4	0.4	19.7	<0.01	0.01	1.5
FGL072 11+50N		1.42	18.7	320	8.6	8.0	<0.001	0.01	0.33	4.9	0.5	0.6	16.6	<0.01	0.02	3.7
FGL072 12+00N		1.52	19.7	550	8.0	8.3	<0.001	0.01	0.37	4.7	0.4	0.5	15.8	0.01	0.03	3.4
FGL072 12+50N		1.22	17.2	550	6.8	10.3	<0.001	0.01	0.29	4.0	0.4	0.6	20.4	<0.01	0.01	2.1
FGL072 13+50N		0.13	3.4	440	2.5	3.6	<0.001	0.02	0.09	0.4	0.2	0.2	19.8	<0.01	<0.01	<0.2
FGL072 14+00N		1.23	15.2	310	7.1	8.3	<0.001	0.01	1.14	3.0	0.3	0.5	18.3	<0.01	0.02	1.3
FGL072 14+50N		0.47	7.3	380	5.6	4.8	<0.001	0.01	0.19	1.8	0.4	0.3	17.0	<0.01	<0.01	0.2
FGL072 00+50S		1.02	16.5	580	149.5	6.5	<0.001	0.02	1.28	4.3	0.6	0.4	39.4	<0.01	0.01	1.7
FGL072 01+50S		0.83	12.6	550	99.9	5.7	<0.001	0.01	0.84	3.7	0.3	0.4	27.5	<0.01	0.01	1.6
FGL072 02+00S		0.97	14.1	880	106.5	6.9	<0.001	0.01	1.19	4.7	0.6	0.4	35.8	<0.01	<0.01	1.7
FGL072 02+50S		1.05	15.8	750	142.0	6.2	<0.001	0.01	1.54	6.2	0.8	0.4	35.1	<0.01	0.01	2.4
FGL072 04+00S		0.71	9.8	700	5.6	9.5	<0.001	0.01	0.25	2.3	0.4	0.4	22.2	<0.01	0.01	0.5
FGL072 04+50S		0.97	11.7	590	7.6	10.2	<0.001	0.01	0.31	3.1	0.3	0.4	25.6	<0.01	0.01	1.4
FGL072 05+00S		1.05	12.0	520	5.6	8.6	<0.001	0.01	0.30	2.6	0.4	0.4	18.5	<0.01	0.01	1.4
FGL072 05+50S		1.00	17.3	480	8.6	9.2	<0.001	0.01	0.34	2.9	0.2	0.4	18.5	<0.01	0.01	1.3
FGL072 06+00S		1.41	17.2	390	7.2	9.3	<0.001	0.01	0.34	3.9	0.5	0.5	22.1	<0.01	0.01	2.2
FGL072 06+50S		1.33	14.4	280	11.0	11.1	<0.001	0.01	0.34	2.9	0.3	0.5	21.9	<0.01	0.01	1.8
FGL072 07+00S		1.08	20.9	190	8.3	8.1	<0.001	0.01	0.37	4.0	0.7	0.5	16.9	<0.01	0.04	3.1
FGL072 07+50S		1.04	15.9	490	6.0	5.1	<0.001	<0.01	0.27	3.7	0.6	0.4	23.6	<0.01	0.03	2.8
FGL072 08+00S		0.96	19.5	280	8.2	8.0	<0.001	0.01	0.41	3.8	0.4	0.5	27.2	<0.01	0.03	1.9
FGL072 08+50S		0.98	15.7	280	7.0	8.7	<0.001	0.01	0.42	4.1	0.5	0.4	30.9	<0.01	0.03	2.1
FGL073 00+00		0.76	10.3	390	5.5	7.4	<0.001	0.01	0.93	3.1	0.4	0.4	27.5	<0.01	0.02	1.7
FGL073 00+50N		1.28	14.8	400	6.7	11.2	<0.001	0.01	0.35	3.0	0.3	0.5	17.6	<0.01	0.04	2.0

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL072 01+50N		0.047	0.15	0.73	50	0.18	19.25	1140	1.2
FGL072 03+00N		0.096	0.10	0.45	67	0.24	3.59	59	2.0
FGL072 03+50N		0.077	0.06	0.38	50	0.15	2.24	35	0.9
FGL072 04+00N		0.079	0.08	0.40	63	0.20	2.55	44	1.3
FGL072 04+50N		0.056	0.10	0.35	57	0.21	2.62	50	0.5
FGL072 05+00N		0.059	0.06	0.31	46	0.18	1.99	28	<0.5
FGL072 05+50N		0.042	0.05	0.35	34	0.09	1.76	23	<0.5
FGL072 06+00N		0.069	0.10	0.59	50	0.23	3.71	41	0.9
FGL072 06+50N		0.073	0.09	0.57	55	0.19	5.57	37	0.7
FGL072 07+00N		0.060	0.08	0.49	44	0.13	5.55	65	<0.5
FGL072 07+50N		0.073	0.11	0.48	61	0.20	3.66	56	1.3
FGL072 08+00N		0.082	0.10	0.52	70	0.26	3.53	58	1.8
FGL072 08+50N		0.078	0.09	0.48	63	0.22	3.12	44	1.5
FGL072 09+00N		0.060	0.08	0.55	61	0.20	3.90	57	0.8
FGL072 09+50N		0.065	0.09	0.52	61	0.17	4.33	39	<0.5
FGL072 10+00N		0.057	0.07	0.53	55	0.14	4.41	50	0.5
FGL072 10+50N		0.055	0.09	0.48	52	0.15	3.99	46	0.6
FGL072 11+00N		0.053	0.07	0.48	47	0.14	4.07	43	0.5
FGL072 11+50N		0.086	0.10	0.79	58	0.25	5.98	46	2.4
FGL072 12+00N		0.077	0.09	0.54	55	0.21	4.83	45	3.2
FGL072 12+50N		0.082	0.08	0.42	65	0.15	3.43	51	2.9
FGL072 13+50N		0.026	0.03	0.28	25	0.06	3.43	18	<0.5
FGL072 14+00N		0.056	0.08	0.40	57	0.19	3.14	43	0.6
FGL072 14+50N		0.036	0.05	0.36	37	0.14	5.13	31	<0.5
FGL072 00+50S		0.069	0.08	0.49	52	0.15	6.84	234	1.4
FGL072 01+50S		0.065	0.07	0.40	52	0.13	3.95	160	0.9
FGL072 02+00S		0.113	0.09	0.39	63	0.13	5.02	241	1.8
FGL072 02+50S		0.114	0.08	0.59	66	0.14	11.90	259	2.6
FGL072 04+00S		0.064	0.07	0.36	46	0.10	3.67	61	<0.5
FGL072 04+50S		0.053	0.10	0.39	50	0.13	5.06	70	0.5
FGL072 05+00S		0.061	0.08	0.40	44	0.38	3.51	47	0.6
FGL072 05+50S		0.043	0.09	0.36	47	0.14	3.67	61	0.5
FGL072 06+00S		0.071	0.10	0.50	58	0.18	3.80	48	1.0
FGL072 06+50S		0.054	0.09	0.35	55	0.15	2.85	51	0.7
FGL072 07+00S		0.059	0.08	0.50	48	0.18	6.13	46	1.1
FGL072 07+50S		0.068	0.07	0.56	50	0.15	6.25	43	1.2
FGL072 08+00S		0.057	0.09	0.36	52	0.14	3.57	57	0.9
FGL072 08+50S		0.040	0.10	0.41	46	0.14	6.75	55	0.5
FGL073 00+00		0.050	0.07	0.31	44	0.09	4.11	63	0.5
FGL073 00+50N		0.078	0.09	0.33	60	0.35	2.51	68	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL073 01+00N		0.69	0.0009	0.02	1.91	8.6	<0.02	<10	260	0.40	0.12	0.18	0.07	22.4	7.9	27
FGL073 01+50N		0.66	0.0008	0.03	1.51	6.4	<0.02	<10	240	0.35	0.09	0.25	0.06	18.65	7.0	24
FGL073 02+00N		0.85	0.0023	0.03	1.15	6.7	<0.02	<10	690	0.45	0.06	0.33	0.05	28.3	6.9	19
FGL073 02+50N		0.60	0.0010	0.02	0.89	4.4	<0.02	<10	290	0.25	0.07	0.17	0.10	18.00	4.6	11
FGL073 03+50N		0.78	0.0016	0.03	1.52	5.8	<0.02	<10	320	0.41	0.09	0.26	0.05	23.6	6.6	24
FGL073 04+00N		0.66	0.0009	0.05	1.41	7.4	<0.02	<10	170	0.25	0.12	0.15	0.09	15.90	5.3	21
FGL073 04+50N		0.67	0.0010	0.06	1.83	6.9	<0.02	<10	420	0.46	0.11	0.31	0.10	23.6	7.2	25
FGL073 06+50N		0.74	0.0020	0.25	1.47	7.1	<0.02	<10	290	0.32	0.07	0.55	0.38	17.80	7.4	30
FGL073 7+50N		0.59	0.0049	0.89	1.81	11.9	<0.02	<10	460	0.50	0.12	0.45	0.52	19.30	8.3	27
FGL073 08+50N		0.45	0.0038	0.92	1.29	7.7	<0.02	<10	410	0.33	0.08	0.46	0.38	20.9	6.3	21
FGL073 09+00N		0.61	0.0018	0.09	1.23	7.8	<0.02	<10	310	0.25	0.08	0.34	0.12	16.70	5.7	21
FGL073 09+50N		0.58	0.0042	0.29	1.39	10.1	<0.02	<10	940	0.40	0.11	0.64	0.40	20.6	7.6	25
FGL073 10+00N		0.56	0.0035	0.19	1.45	11.1	<0.02	<10	630	0.45	0.09	0.39	0.86	18.30	6.3	23
FGL073 10+50N		0.71	0.0017	0.09	1.69	6.7	<0.02	<10	250	0.46	0.09	0.32	0.28	21.8	7.3	23
FGL073 11+00N		0.65	0.0012	0.07	1.78	7.1	<0.02	<10	530	0.47	0.14	0.25	0.11	23.3	9.0	27
FGL073 11+50N		0.65	0.0014	0.04	1.74	8.4	<0.02	<10	260	0.40	0.13	0.20	0.08	19.50	8.2	27
FGL073 12+00N		0.54	0.0022	0.03	1.77	6.7	<0.02	<10	130	0.34	0.12	0.15	0.07	16.50	6.1	24
FGL073 12+50N		0.65	0.0009	0.02	1.92	8.5	<0.02	<10	180	0.42	0.10	0.19	0.08	17.90	7.6	24
FGL073 13+00N		0.49	0.0015	0.05	1.82	6.0	<0.02	<10	260	0.45	0.11	0.22	0.10	17.70	8.0	22
FGL073 13+50N		0.42	0.0024	0.03	1.79	6.5	<0.02	<10	160	0.41	0.08	0.32	0.13	22.5	9.6	26
FGL073 14+00N		0.27	0.0007	0.20	1.60	5.6	<0.02	<10	220	0.45	0.10	0.23	0.13	18.40	5.7	18
FGL073 14+50N		0.51	0.0140	0.10	2.25	9.4	<0.02	<10	150	0.55	0.16	0.20	0.11	21.0	8.4	32
FGL073 15+00N		0.66	0.0017	0.09	1.91	8.1	<0.02	<10	150	0.41	0.14	0.19	0.12	23.9	7.0	27
FGL073 15+50N		0.56	0.0040	0.47	1.85	8.5	<0.02	<10	220	0.46	0.14	0.23	0.28	24.4	6.5	29
FGL073 16+00N		0.81	0.0026	0.09	1.84	8.8	<0.02	<10	190	0.49	0.11	0.34	0.22	29.1	8.9	27
FGL073 16+50N		0.63	0.0008	0.02	1.48	5.9	<0.02	<10	150	0.28	0.09	0.21	0.09	23.3	6.5	20
FGL073 17+50N		0.68	0.0009	0.05	2.65	8.7	<0.02	<10	200	0.59	0.12	0.37	0.09	27.2	8.5	25
FGL073 18+00N		0.63	0.0034	0.03	2.45	9.2	<0.02	<10	190	0.57	0.11	0.24	0.09	24.1	9.4	28
FGL073 18+50N		0.55	0.0018	0.08	2.37	8.1	<0.02	<10	170	0.44	0.14	0.22	0.09	21.4	8.2	31
FGL073 19+00N		0.59	0.0020	0.08	2.26	9.2	<0.02	<10	200	0.48	0.14	0.28	0.10	21.7	8.0	28
FGL073 19+50N		0.62	0.0010	0.03	2.29	8.2	<0.02	<10	290	0.51	0.12	0.33	0.08	21.8	8.9	27
FGL073 20+00N		0.81	0.0138	0.03	2.26	7.4	<0.02	<10	270	0.53	0.11	0.30	0.05	25.3	9.0	24
FGL073 20+50N		0.77	0.0013	0.05	2.08	7.9	<0.02	<10	280	0.46	0.13	0.32	0.09	23.7	8.6	31
FGL073 21+00N		0.72	0.0022	0.05	2.64	11.7	<0.02	<10	200	0.68	0.16	0.28	0.08	30.4	9.5	40
FGL073 21+50N		0.71	0.0026	0.05	1.97	19.0	<0.02	<10	170	1.24	0.11	0.20	0.08	52.7	16.3	44
FGL073 22+00N		0.59	0.0016	0.03	2.09	18.7	<0.02	<10	170	0.38	0.12	0.26	0.08	24.5	9.4	30
FGL073 22+50N		0.70	0.0014	0.04	2.12	11.7	<0.02	<10	230	0.61	0.15	0.29	0.06	34.2	10.2	31
FGL073 23+00N		0.62	0.0014	0.03	2.06	9.6	<0.02	<10	140	0.43	0.15	0.23	0.06	26.9	8.4	28
FGL074 00+50N		0.86	0.0005	0.02	2.07	11.3	<0.02	<10	220	0.31	0.12	0.24	0.09	20.8	9.9	25
FGL074 01+00N		0.82	0.0004	0.02	1.40	7.8	<0.02	<10	330	0.32	0.13	0.18	0.05	20.1	6.0	20

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL073 01+00N		1.65	14.9	2.44	6.18	0.10	0.03	0.01	0.022	0.07	9.9	13.3	0.48	261	0.62	0.02
FGL073 01+50N		1.14	13.9	2.05	4.89	0.10	<0.02	0.01	0.018	0.07	9.5	11.5	0.46	242	0.41	0.02
FGL073 02+00N		2.29	8.9	2.20	4.19	0.10	0.02	0.02	0.021	0.07	17.1	8.5	0.36	402	0.36	0.02
FGL073 02+50N		1.81	18.0	1.55	3.60	0.08	<0.02	0.01	0.015	0.06	8.2	6.8	0.18	321	0.41	0.02
FGL073 03+50N		1.27	12.8	2.08	4.70	0.10	0.03	0.01	0.019	0.06	13.3	11.5	0.46	250	0.40	0.02
FGL073 04+00N		1.09	8.1	1.99	6.29	0.09	<0.02	0.02	0.018	0.05	8.3	11.1	0.36	182	0.49	0.01
FGL073 04+50N		2.40	15.8	2.30	6.53	0.10	<0.02	0.02	0.025	0.07	12.8	12.7	0.46	302	0.53	0.02
FGL073 06+50N		1.23	12.9	2.18	5.93	0.10	0.06	0.02	0.021	0.05	9.9	10.8	0.64	235	0.22	0.02
FGL073 7+50N		1.84	19.4	2.52	6.55	0.10	0.02	0.04	0.026	0.07	11.3	12.2	0.51	384	0.54	0.02
FGL073 08+50N		1.47	11.1	2.04	4.59	0.09	0.03	0.03	0.022	0.06	10.9	10.9	0.51	303	0.40	0.02
FGL073 09+00N		1.15	8.6	1.83	4.79	0.09	0.04	0.01	0.017	0.06	8.7	12.2	0.48	230	0.39	0.01
FGL073 09+50N		1.26	17.6	2.11	4.74	0.09	0.04	0.03	0.023	0.06	10.8	11.4	0.48	322	0.45	0.02
FGL073 10+00N		2.36	15.5	1.94	4.57	0.10	0.04	0.02	0.021	0.07	12.1	10.0	0.43	433	0.41	0.02
FGL073 10+50N		1.90	12.6	2.14	5.75	0.09	0.03	0.02	0.019	0.07	10.2	10.9	0.46	287	0.50	0.02
FGL073 11+00N		1.46	16.1	2.46	6.56	0.10	0.03	0.02	0.024	0.10	14.0	12.1	0.47	735	0.64	0.02
FGL073 11+50N		0.92	14.2	2.50	6.39	0.10	0.04	0.01	0.020	0.07	9.1	12.9	0.48	357	0.67	0.02
FGL073 12+00N		0.81	11.4	2.36	7.39	0.10	0.08	0.02	0.020	0.07	8.7	12.3	0.46	205	0.64	0.02
FGL073 12+50N		0.92	11.1	2.47	6.63	0.10	0.07	0.02	0.021	0.08	9.3	13.4	0.53	221	0.50	0.01
FGL073 13+00N		1.59	18.9	2.38	7.84	0.09	0.03	0.02	0.020	0.09	9.2	12.7	0.46	343	0.64	0.02
FGL073 13+50N		1.74	11.5	2.52	6.26	0.09	0.06	0.01	0.020	0.05	9.7	14.6	0.70	343	0.39	0.02
FGL073 14+00N		1.48	17.4	1.76	5.57	0.09	<0.02	0.03	0.018	0.06	9.5	8.9	0.26	267	0.59	0.02
FGL073 14+50N		1.35	18.0	2.67	6.50	0.09	0.04	0.03	0.025	0.06	10.9	15.4	0.57	286	0.74	0.02
FGL073 15+00N		1.52	12.2	2.23	6.13	0.10	0.03	0.02	0.021	0.06	11.9	13.7	0.45	282	0.65	0.02
FGL073 15+50N		3.20	14.9	2.44	5.89	0.09	0.03	0.02	0.025	0.07	13.0	12.9	0.45	280	0.65	0.02
FGL073 16+00N		3.15	17.0	2.35	5.36	0.10	0.04	0.01	0.023	0.06	12.2	12.9	0.54	338	0.49	0.02
FGL073 16+50N		1.61	7.1	2.22	6.54	0.09	0.03	0.01	0.017	0.05	12.1	15.1	0.50	309	0.50	0.01
FGL073 17+50N		1.37	11.0	2.81	8.76	0.09	0.02	0.02	0.026	0.06	15.6	19.1	0.60	347	0.62	0.02
FGL073 18+00N		1.31	17.2	2.70	7.01	0.10	0.03	0.02	0.029	0.06	11.1	16.5	0.58	319	0.53	0.02
FGL073 18+50N		1.34	13.7	2.86	8.02	0.10	0.04	0.02	0.025	0.06	10.0	17.6	0.59	336	0.64	0.01
FGL073 19+00N		1.31	16.6	2.65	7.53	0.10	0.04	0.02	0.023	0.06	11.4	16.0	0.57	301	0.58	0.02
FGL073 19+50N		1.83	16.0	2.70	8.11	<0.05	0.02	0.01	0.021	0.07	11.3	14.8	0.64	504	0.61	0.02
FGL073 20+00N		2.22	11.6	2.75	8.04	<0.05	0.03	0.01	0.030	0.06	12.6	15.0	0.66	439	0.50	0.02
FGL073 20+50N		1.81	17.6	2.43	6.82	<0.05	0.02	0.02	0.022	0.07	9.8	12.9	0.53	371	0.55	0.02
FGL073 21+00N		1.59	22.3	2.87	8.12	<0.05	0.09	0.02	0.029	0.07	11.6	15.2	0.63	290	0.69	0.02
FGL073 21+50N		3.60	15.4	4.46	6.68	0.05	0.04	0.05	0.042	0.08	22.8	8.9	0.41	626	0.47	0.01
FGL073 22+00N		1.39	17.9	3.07	7.75	<0.05	0.02	0.02	0.025	0.07	10.1	21.0	0.59	337	0.65	0.02
FGL073 22+50N		1.21	17.2	2.58	6.22	<0.05	0.05	0.03	0.028	0.07	17.8	13.3	0.58	375	0.60	0.02
FGL073 23+00N		1.58	16.5	2.38	6.59	<0.05	0.04	0.02	0.025	0.06	11.3	13.7	0.50	249	0.57	0.01
FGL074 00+50N		1.77	12.2	3.24	10.50	<0.05	0.05	0.01	0.030	0.10	10.3	15.8	0.68	429	0.70	0.01
FGL074 01+00N		1.48	9.0	1.96	6.97	<0.05	0.02	0.01	0.018	0.07	11.3	10.7	0.39	260	0.74	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL073 01+00N		1.14	17.1	310	7.0	9.0	<0.001	0.01	0.39	3.7	0.6	0.5	18.2	<0.01	0.03	1.8
FGL073 01+50N		0.91	14.8	420	5.2	5.5	<0.001	0.01	0.29	2.9	0.6	0.4	21.4	<0.01	0.03	1.3
FGL073 02+00N		0.67	10.7	540	6.5	5.9	<0.001	0.01	0.51	3.4	0.4	0.3	25.7	<0.01	0.03	2.4
FGL073 02+50N		0.47	6.3	470	6.0	6.7	<0.001	0.01	0.31	1.3	0.3	0.2	17.8	<0.01	0.02	0.3
FGL073 03+50N		0.88	14.7	500	9.2	6.7	<0.001	<0.01	0.27	3.2	0.6	0.4	19.3	<0.01	0.02	2.3
FGL073 04+00N		0.95	10.0	360	6.6	7.7	<0.001	0.01	0.26	2.3	0.4	0.5	13.3	<0.01	0.03	0.5
FGL073 04+50N		0.90	15.2	580	6.1	9.8	<0.001	0.01	0.28	3.5	0.6	0.5	28.4	<0.01	0.03	0.9
FGL073 06+50N		0.93	11.4	810	74.8	5.2	<0.001	0.01	0.97	4.0	0.5	0.4	31.3	<0.01	0.03	1.9
FGL073 7+50N		0.86	13.6	520	107.5	7.7	<0.001	0.01	1.05	4.4	0.6	0.4	34.3	<0.01	0.02	1.2
FGL073 08+50N		0.71	12.6	620	234	4.9	<0.001	0.01	2.63	3.1	0.4	0.3	26.3	<0.01	0.03	1.8
FGL073 09+00N		0.88	13.3	360	61.2	5.4	<0.001	0.01	0.74	2.9	0.4	0.4	22.8	<0.01	0.02	1.9
FGL073 09+50N		0.92	17.0	650	30.8	5.7	<0.001	0.02	0.65	3.7	0.5	0.4	44.4	<0.01	0.03	1.3
FGL073 10+00N		0.88	14.4	370	27.9	6.2	<0.001	0.01	0.73	3.9	0.5	0.3	28.3	<0.01	0.03	1.8
FGL073 10+50N		0.99	14.5	470	9.7	7.0	<0.001	0.01	0.40	3.5	0.4	0.4	25.8	<0.01	0.03	1.6
FGL073 11+00N		1.25	15.5	310	8.9	11.2	<0.001	0.01	0.29	4.2	0.7	0.5	22.8	<0.01	0.04	1.8
FGL073 11+50N		1.29	17.6	260	8.3	9.0	<0.001	0.01	0.40	3.5	0.3	0.5	18.5	<0.01	0.04	1.8
FGL073 12+00N		1.33	14.0	180	7.3	9.5	<0.001	0.01	0.29	3.1	0.4	0.5	14.7	<0.01	0.04	1.9
FGL073 12+50N		1.20	17.2	210	7.6	6.8	<0.001	0.01	0.33	3.2	0.4	0.5	17.5	<0.01	0.03	2.2
FGL073 13+00N		1.31	13.7	360	8.2	10.8	<0.001	0.01	0.29	3.1	0.4	0.5	25.4	<0.01	0.03	1.5
FGL073 13+50N		0.93	17.0	440	6.0	5.2	<0.001	0.01	0.36	3.7	0.4	0.4	23.0	<0.01	0.03	2.2
FGL073 14+00N		0.74	10.6	410	8.0	9.4	<0.001	0.01	0.27	2.4	0.5	0.3	22.0	<0.01	0.03	0.3
FGL073 14+50N		1.38	18.9	560	8.4	10.1	<0.001	0.01	0.34	4.0	0.7	0.5	15.8	<0.01	0.04	2.4
FGL073 15+00N		1.25	16.5	420	23.8	8.4	<0.001	0.01	0.43	3.8	0.6	0.5	15.3	<0.01	0.03	2.4
FGL073 15+50N		1.15	16.0	520	22.0	8.7	<0.001	0.01	0.63	4.4	0.7	0.5	17.7	<0.01	0.04	2.4
FGL073 16+00N		0.90	20.1	730	39.7	7.5	<0.001	0.01	0.56	4.3	0.5	0.4	24.6	<0.01	0.03	2.2
FGL073 16+50N		1.10	10.3	310	11.2	7.0	<0.001	0.01	0.31	2.7	0.5	0.4	16.6	<0.01	0.03	2.1
FGL073 17+50N		1.21	15.3	530	9.2	9.3	<0.001	0.01	0.25	4.3	0.6	0.5	34.4	<0.01	0.03	1.8
FGL073 18+00N		1.08	19.0	500	8.7	8.0	<0.001	0.01	0.33	4.6	0.7	0.4	21.7	<0.01	0.03	2.3
FGL073 18+50N		1.50	15.5	410	9.2	8.8	<0.001	0.01	0.28	4.0	0.4	0.6	20.6	<0.01	0.03	2.4
FGL073 19+00N		1.35	18.3	460	9.0	8.6	<0.001	0.01	0.35	4.0	0.6	0.5	22.1	<0.01	0.04	2.2
FGL073 19+50N		1.14	17.3	460	9.0	8.7	<0.001	<0.01	0.28	4.1	0.4	0.6	29.9	<0.01	0.02	2.1
FGL073 20+00N		1.05	15.1	430	8.6	9.2	<0.001	<0.01	0.26	4.0	0.4	0.6	34.6	<0.01	0.03	2.7
FGL073 20+50N		1.14	19.3	410	7.9	8.7	<0.001	<0.01	0.28	3.6	0.4	0.5	26.0	<0.01	0.03	1.8
FGL073 21+00N		1.38	24.2	360	9.3	9.2	<0.001	<0.01	0.42	4.9	0.5	0.7	26.1	<0.01	0.04	4.0
FGL073 21+50N		0.46	21.2	460	12.0	9.6	<0.001	<0.01	1.86	6.1	0.8	0.5	20.2	<0.01	0.02	4.2
FGL073 22+00N		1.26	17.7	350	10.0	11.3	<0.001	<0.01	0.39	3.4	0.4	0.5	22.1	<0.01	0.02	2.3
FGL073 22+50N		1.41	21.8	550	8.7	8.0	<0.001	<0.01	0.38	4.3	0.6	0.5	23.1	<0.01	0.04	4.0
FGL073 23+00N		1.46	18.8	590	8.3	9.0	<0.001	<0.01	0.30	3.3	0.5	0.6	18.9	<0.01	0.02	2.6
FGL074 00+50N		1.14	16.0	650	7.5	12.1	<0.001	<0.01	0.44	3.9	0.4	0.7	26.3	<0.01	0.04	2.6
FGL074 01+00N		1.27	11.6	280	6.7	9.3	<0.001	<0.01	0.28	2.7	0.4	0.5	21.4	<0.01	0.02	2.0

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL073 01+00N		0.065	0.08	0.39	55	0.30	3.82	51	0.8
FGL073 01+50N		0.063	0.06	0.34	46	0.13	3.54	45	<0.5
FGL073 02+00N		0.047	0.09	0.37	43	0.10	6.04	60	0.6
FGL073 02+50N		0.024	0.05	0.20	32	0.09	2.37	53	<0.5
FGL073 03+50N		0.062	0.07	0.42	46	0.13	5.12	47	0.9
FGL073 04+00N		0.067	0.08	0.33	53	0.14	2.38	39	<0.5
FGL073 04+50N		0.053	0.08	0.42	50	0.15	5.88	59	<0.5
FGL073 06+50N		0.112	0.06	0.42	56	0.11	4.25	139	2.3
FGL073 7+50N		0.063	0.08	0.49	58	0.13	6.14	170	0.8
FGL073 08+50N		0.043	0.05	0.35	43	0.47	4.20	104	0.9
FGL073 09+00N		0.052	0.05	0.31	42	0.23	3.20	58	1.4
FGL073 09+50N		0.053	0.06	0.81	46	0.19	7.18	80	1.2
FGL073 10+00N		0.044	0.06	0.40	42	0.16	7.20	202	1.2
FGL073 10+50N		0.062	0.06	0.41	50	0.14	4.77	59	0.9
FGL073 11+00N		0.076	0.09	0.45	59	0.15	6.61	51	1.1
FGL073 11+50N		0.083	0.08	0.36	61	0.14	3.40	51	1.4
FGL073 12+00N		0.090	0.07	0.35	64	0.20	2.66	45	2.8
FGL073 12+50N		0.063	0.06	0.38	56	0.14	2.56	47	2.4
FGL073 13+00N		0.070	0.07	0.36	62	0.16	3.23	49	1.4
FGL073 13+50N		0.094	0.06	0.36	60	0.13	3.57	55	1.9
FGL073 14+00N		0.048	0.06	0.41	43	0.20	4.14	41	<0.5
FGL073 14+50N		0.089	0.11	0.54	63	0.18	4.02	51	1.3
FGL073 15+00N		0.080	0.08	0.49	56	0.18	4.28	45	1.1
FGL073 15+50N		0.070	0.11	0.58	55	0.19	5.58	78	0.9
FGL073 16+00N		0.070	0.08	0.55	52	0.17	5.55	55	1.1
FGL073 16+50N		0.053	0.06	0.42	53	0.13	3.38	47	0.9
FGL073 17+50N		0.071	0.08	0.55	64	0.18	7.29	62	0.6
FGL073 18+00N		0.057	0.08	0.56	56	0.19	5.82	53	1.2
FGL073 18+50N		0.091	0.09	0.52	68	0.20	3.60	50	1.6
FGL073 19+00N		0.072	0.09	0.50	63	0.18	4.59	49	1.3
FGL073 19+50N		0.064	0.09	0.55	64	0.15	5.10	59	0.7
FGL073 20+00N		0.057	0.10	0.61	63	0.18	5.42	59	1.2
FGL073 20+50N		0.063	0.10	0.49	58	0.14	3.95	47	0.7
FGL073 21+00N		0.096	0.13	0.61	68	0.17	4.40	53	3.7
FGL073 21+50N		0.015	0.26	0.82	67	0.11	7.33	111	1.2
FGL073 22+00N		0.040	0.10	0.42	56	0.16	4.30	49	1.0
FGL073 22+50N		0.072	0.11	0.80	55	0.17	6.87	50	1.7
FGL073 23+00N		0.068	0.11	0.56	53	0.19	4.09	45	1.4
FGL074 00+50N		0.094	0.09	0.37	70	0.13	3.71	90	1.9
FGL074 01+00N		0.063	0.08	0.36	54	0.13	3.23	44	1.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	
FGL074 01+50N		0.76	0.0011	0.04	1.62	8.4	<0.02	<10	380	0.51	0.11	0.18	0.09	25.0	9.1	23	
FGL074 02+00N		0.81	0.0025	0.02	1.73	10.3	<0.02	<10	380	0.44	0.14	0.21	0.06	23.3	7.1	26	
FGL074 02+50N		0.56	0.0008	0.02	1.55	9.7	<0.02	<10	160	0.29	0.11	0.09	0.11	30.1	12.7	19	
FGL074 03+00N		0.70	0.0017	0.05	1.90	7.9	<0.02	<10	230	0.38	0.11	0.19	0.07	26.6	8.5	29	
FGL074 03+50N		0.68	0.0020	0.11	2.26	12.0	<0.02	<10	260	0.46	0.28	0.19	0.11	25.1	8.9	27	
FGL074 04+00N		0.52	0.0015	0.05	1.97	10.0	<0.02	<10	160	0.38	0.14	0.16	0.12	21.6	8.2	28	
FGL074 07+00N		0.46	0.0063	0.48	2.05	13.5	<0.02	<10	310	0.62	0.10	0.59	0.38	25.3	12.4	30	
FGL074 08+00N		1.11	0.0019	0.08	1.51	4.8	<0.02	<10	190	0.46	0.07	0.50	0.16	25.8	8.2	21	
FGL074 08+50N		0.78	0.0053	0.04	1.56	5.5	0.02	<10	110	0.33	0.06	0.36	0.09	21.9	9.8	22	
FGL074 09+00N		0.64	0.0006	0.04	2.08	7.9	<0.02	<10	160	0.45	0.14	0.20	0.08	20.2	7.2	26	
FGL074 09+50N		0.66	0.0013	0.04	2.00	7.2	<0.02	<10	150	0.49	0.13	0.25	0.06	20.1	7.8	25	
FGL074 10+00N		0.70	0.0007	0.03	2.21	7.3	<0.02	<10	150	0.43	0.08	0.41	0.06	21.5	11.2	27	
FGL074 10+50N		0.68	0.0014	0.04	1.96	9.6	<0.02	<10	140	0.37	0.15	0.21	0.05	19.65	6.9	26	
FGL074 11+00N		0.69	0.0009	0.09	1.98	7.0	<0.02	<10	220	0.70	0.14	0.31	0.07	28.8	7.2	25	
FGL074 11+50N		0.62	0.0018	0.04	1.78	9.8	<0.02	<10	180	0.41	0.14	0.28	0.08	24.8	8.5	27	
FGL074 12+00N		0.55	0.0014	0.08	2.62	9.2	<0.02	<10	210	0.53	0.13	0.30	0.08	27.0	10.4	30	
FGL074 12+50N		0.86	0.0011	0.06	2.01	8.9	<0.02	<10	240	0.47	0.13	0.35	0.07	24.8	8.2	29	
FGL074 13+00N		0.72	0.0008	0.06	1.95	9.8	<0.02	<10	150	0.44	0.12	0.25	0.08	20.9	8.4	26	
FGL074 13+50N		0.76	0.0017	0.23	1.60	7.7	<0.02	<10	160	0.45	0.14	0.24	0.13	23.5	5.7	24	
FGL074 14+00N		0.65	0.0008	0.07	1.68	7.2	<0.02	<10	130	0.34	0.11	0.20	0.09	18.45	7.1	23	
FGL074 14+50N		0.92	0.0016	0.15	2.00	9.0	<0.02	<10	160	0.48	0.14	0.20	0.16	24.8	7.8	27	
FGL074 15+00N		0.72	0.0054	3.06	2.36	11.3	<0.02	<10	260	0.65	0.14	0.36	0.65	26.7	10.8	28	
FGL074 15+50N		0.74	0.0040	0.44	2.33	9.4	<0.02	<10	160	0.44	0.15	0.34	0.28	19.75	8.6	23	
FGL074 16+00N		0.61	0.0009	0.25	1.91	7.5	<0.02	<10	250	0.50	0.12	0.31	0.18	27.9	7.2	24	
FGL074 17+00N		0.47	0.0016	0.21	3.44	3.5	<0.02	<10	370	1.48	0.06	1.68	0.20	51.0	10.2	16	
FGL074 17+50N		0.65	0.0007	0.08	1.67	5.5	<0.02	<10	230	1.10	0.10	0.36	0.09	57.8	8.2	16	
FGL074 18+00N		0.63	0.0010	0.09	2.01	7.5	<0.02	<10	240	0.67	0.14	0.42	0.04	24.9	9.0	30	
FGL074 18+50N		0.85	0.0013	0.04	2.58	10.2	<0.02	<10	190	0.59	0.13	0.30	0.11	20.3	9.7	27	
FGL074 19+00N		0.49	0.0013	0.11	2.05	5.7	<0.02	<10	250	0.68	0.14	0.43	0.12	25.0	10.6	24	
FGL074 19+50N		0.75	0.0019	0.07	2.10	7.7	<0.02	<10	300	0.80	0.10	0.54	0.07	26.0	8.6	26	
FGL074 20+00N		0.80	0.0009	0.02	2.38	11.6	<0.02	<10	220	0.83	0.11	0.23	0.07	22.4	8.8	28	
FGL074 20+50N		0.76	0.0025	0.02	2.37	9.9	<0.02	<10	190	0.59	0.13	0.23	0.08	22.2	9.7	31	
FGL074 21+00N		0.57	0.0018	0.09	1.97	7.7	<0.02	<10	140	0.38	0.18	0.19	0.10	19.45	6.3	28	
FGL074 21+50N		0.73	0.0011	0.09	2.33	9.6	<0.02	<10	160	0.54	0.16	0.19	0.08	20.8	8.7	36	
FGL074 22+00N		0.68	0.0017	0.03	1.77	8.4	<0.02	<10	90	0.29	0.15	0.11	0.08	15.60	6.7	25	
FGL074 22+50N		0.59	0.0008	0.05	2.01	7.7	<0.02	<10	260	0.70	0.13	0.37	0.11	31.7	8.3	29	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL074 01+50N		2.46	10.2	2.63	7.50	<0.05	0.02	0.02	0.027	0.09	13.2	11.1	0.41	541	0.78	0.01
FGL074 02+00N		1.93	13.9	2.33	6.32	<0.05	0.04	0.02	0.022	0.08	13.7	12.8	0.44	193	0.68	0.02
FGL074 02+50N		1.72	8.8	2.90	7.22	<0.05	<0.02	0.01	0.024	0.10	15.9	12.0	0.32	698	0.96	0.01
FGL074 03+00N		1.39	15.4	2.52	6.79	<0.05	0.03	0.02	0.025	0.06	13.1	12.4	0.48	285	0.63	0.02
FGL074 03+50N		2.21	18.7	2.67	8.25	<0.05	0.02	0.02	0.030	0.07	12.6	13.9	0.39	266	0.77	0.02
FGL074 04+00N		1.53	16.4	2.50	6.42	<0.05	0.06	0.02	0.028	0.06	10.2	12.6	0.43	219	0.93	0.02
FGL074 07+00N		1.45	17.7	3.05	8.67	0.05	0.07	0.04	0.028	0.05	13.6	12.7	0.73	754	0.54	0.02
FGL074 08+00N		0.94	12.0	2.15	6.27	<0.05	0.04	0.02	0.019	0.05	14.3	10.0	0.59	321	0.30	0.02
FGL074 08+50N		1.00	10.6	2.20	6.18	<0.05	0.05	0.01	0.018	0.04	10.5	10.7	0.66	388	0.25	0.01
FGL074 09+00N		1.31	16.0	2.30	7.50	<0.05	0.02	0.03	0.023	0.06	10.4	11.1	0.46	216	0.63	0.02
FGL074 09+50N		1.38	13.5	2.25	7.54	<0.05	0.02	0.02	0.018	0.05	10.4	12.5	0.51	260	0.62	0.02
FGL074 10+00N		1.09	13.3	2.85	8.37	<0.05	0.04	0.01	0.023	0.05	10.5	14.1	0.79	366	0.45	0.02
FGL074 10+50N		1.33	10.9	2.48	8.52	<0.05	0.05	0.02	0.022	0.07	10.4	13.5	0.50	205	0.72	0.02
FGL074 11+00N		1.26	16.9	2.29	8.29	<0.05	0.03	0.01	0.027	0.06	17.0	12.2	0.47	228	0.75	0.02
FGL074 11+50N		1.45	17.3	2.44	7.59	<0.05	0.03	0.02	0.023	0.07	13.1	11.7	0.49	302	0.88	0.02
FGL074 12+00N		1.45	16.2	3.03	8.70	<0.05	0.09	0.03	0.029	0.07	13.9	15.6	0.70	332	0.73	0.02
FGL074 12+50N		1.51	16.9	2.40	6.63	<0.05	0.03	0.02	0.023	0.07	12.6	12.7	0.54	292	0.66	0.02
FGL074 13+00N		1.68	15.8	2.36	6.60	<0.05	0.02	0.02	0.023	0.07	10.2	12.2	0.45	255	0.58	0.02
FGL074 13+50N		1.59	13.3	2.05	7.19	<0.05	0.02	0.02	0.020	0.05	12.7	10.7	0.39	200	0.79	0.02
FGL074 14+00N		1.25	13.7	2.05	5.97	<0.05	0.03	0.03	0.019	0.06	9.5	10.2	0.42	250	0.56	0.02
FGL074 14+50N		3.09	13.1	2.43	7.20	<0.05	0.03	0.02	0.024	0.06	12.4	12.6	0.46	276	0.67	0.01
FGL074 15+00N		7.07	18.8	2.87	8.68	<0.05	0.04	0.09	0.034	0.06	14.3	15.4	0.60	433	0.62	0.02
FGL074 15+50N		2.89	14.0	2.38	8.37	<0.05	0.03	0.02	0.025	0.05	10.2	14.1	0.47	251	0.73	0.02
FGL074 16+00N		3.20	13.0	2.23	6.83	<0.05	0.02	0.02	0.022	0.06	18.7	11.0	0.45	286	0.67	0.02
FGL074 17+00N		2.65	22.9	2.91	14.65	0.21	0.05	0.07	0.041	0.07	103.0	25.6	0.94	526	0.37	0.03
FGL074 17+50N		1.47	12.5	2.04	7.84	0.08	<0.02	0.02	0.023	0.06	68.8	11.0	0.40	642	0.57	0.02
FGL074 18+00N		1.22	15.8	2.42	6.97	<0.05	0.02	0.01	0.025	0.05	13.5	13.3	0.54	373	0.58	0.01
FGL074 18+50N		1.21	18.2	2.58	8.26	<0.05	0.04	0.01	0.030	0.05	9.8	14.1	0.58	317	0.58	0.01
FGL074 19+00N		1.27	19.1	2.29	8.45	<0.05	<0.02	0.02	0.027	0.05	13.9	12.0	0.46	521	0.62	0.02
FGL074 19+50N		1.35	12.0	2.35	7.71	0.05	0.04	0.01	0.023	0.07	15.3	15.7	0.60	432	0.48	0.02
FGL074 20+00N		1.64	15.3	2.62	8.31	<0.05	0.03	0.02	0.028	0.07	13.6	15.8	0.52	288	0.58	0.01
FGL074 20+50N		1.59	15.8	2.58	8.17	<0.05	0.03	0.01	0.029	0.07	11.2	15.1	0.61	326	0.60	0.01
FGL074 21+00N		0.97	13.4	2.35	9.45	<0.05	0.04	0.01	0.024	0.05	10.1	16.3	0.44	202	0.81	0.01
FGL074 21+50N		1.22	16.2	2.70	8.31	<0.05	0.06	0.02	0.028	0.06	10.7	16.6	0.52	261	0.71	0.01
FGL074 22+00N		0.90	9.7	2.56	8.84	<0.05	0.03	0.01	0.022	0.06	7.9	15.5	0.42	266	0.70	0.01
FGL074 22+50N		1.40	19.8	2.57	7.75	<0.05	0.02	0.02	0.022	0.07	19.0	13.5	0.53	365	0.62	0.01

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To: TRIUMPH GOLD CORP.
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SUITE 1100
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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL074 01+50N		1.25	11.9	420	7.7	13.0	<0.001	<0.01	0.43	3.0	0.3	0.5	23.5	<0.01	0.02	2.0
FGL074 02+00N		1.41	17.9	300	7.2	9.0	<0.001	<0.01	0.39	3.3	0.3	0.6	20.9	<0.01	0.03	2.6
FGL074 02+50N		1.08	9.7	520	12.9	11.9	<0.001	<0.01	0.58	2.4	0.3	0.5	10.0	<0.01	0.04	2.1
FGL074 03+00N		1.33	16.5	310	7.7	8.0	<0.001	<0.01	0.35	3.8	0.4	0.6	20.6	<0.01	0.02	2.8
FGL074 03+50N		1.82	17.7	450	10.1	11.0	<0.001	0.01	0.35	3.6	0.6	0.6	23.4	<0.01	0.03	2.0
FGL074 04+00N		1.45	18.1	440	8.6	8.6	<0.001	<0.01	0.38	4.0	0.4	0.6	16.7	0.01	0.04	3.4
FGL074 07+00N		1.27	17.1	790	58.7	6.6	<0.001	0.01	1.07	5.8	0.6	0.5	41.5	<0.01	0.03	2.5
FGL074 08+00N		0.98	12.2	710	21.4	5.3	<0.001	<0.01	0.40	4.1	0.5	0.4	35.7	<0.01	0.01	2.4
FGL074 08+50N		0.65	13.3	580	14.6	4.4	0.001	<0.01	0.39	3.4	0.6	0.4	26.9	<0.01	0.01	2.6
FGL074 09+00N		1.33	15.1	320	8.7	8.7	<0.001	<0.01	0.32	3.3	0.4	0.6	20.5	<0.01	0.02	1.5
FGL074 09+50N		1.34	14.4	330	8.3	8.8	<0.001	<0.01	0.28	3.2	0.4	0.6	22.7	<0.01	0.03	1.7
FGL074 10+00N		1.12	18.2	690	7.9	7.3	<0.001	<0.01	0.28	3.9	0.6	0.5	26.8	<0.01	0.03	2.3
FGL074 10+50N		1.52	14.9	300	8.9	11.0	<0.001	<0.01	0.28	3.5	0.6	0.7	18.6	<0.01	0.02	2.6
FGL074 11+00N		1.46	14.7	290	9.4	10.6	<0.001	<0.01	0.28	3.9	0.5	0.7	28.2	<0.01	0.02	2.3
FGL074 11+50N		1.34	17.8	370	8.1	14.5	<0.001	<0.01	0.36	3.8	0.2	0.6	25.4	<0.01	0.02	2.6
FGL074 12+00N		1.49	20.6	430	8.5	12.5	<0.001	<0.01	0.31	4.7	0.4	0.6	35.7	<0.01	0.02	3.8
FGL074 12+50N		1.29	19.5	410	8.3	10.6	<0.001	<0.01	0.33	4.1	0.6	0.5	27.2	<0.01	0.01	2.5
FGL074 13+00N		1.29	18.4	350	7.2	9.2	<0.001	<0.01	0.35	3.4	0.5	0.5	19.9	<0.01	0.03	2.3
FGL074 13+50N		1.32	13.5	310	8.1	9.9	<0.001	<0.01	0.29	3.3	0.5	0.6	24.4	<0.01	0.03	1.6
FGL074 14+00N		1.18	15.0	490	7.0	8.8	<0.001	<0.01	0.27	2.9	0.3	0.5	17.3	<0.01	0.02	1.9
FGL074 14+50N		1.37	16.0	580	13.8	9.6	<0.001	<0.01	0.51	3.6	0.5	0.6	19.9	<0.01	0.02	2.2
FGL074 15+00N		1.02	19.5	600	90.7	9.9	0.001	0.01	2.86	5.7	0.5	0.6	33.9	<0.01	0.05	2.5
FGL074 15+50N		1.46	18.2	410	17.4	8.9	<0.001	<0.01	0.57	3.8	0.4	0.6	37.0	0.01	0.03	2.1
FGL074 16+00N		1.04	15.5	390	38.7	8.9	<0.001	<0.01	0.62	3.8	0.4	0.5	30.6	<0.01	0.03	2.4
FGL074 17+00N		0.63	11.7	1320	8.9	9.4	<0.001	0.05	0.36	7.2	2.6	0.5	132.5	<0.01	0.03	3.6
FGL074 17+50N		0.71	9.3	500	9.1	9.9	<0.001	0.01	0.19	4.2	1.3	0.5	28.7	<0.01	0.02	2.0
FGL074 18+00N		1.22	19.2	550	9.8	6.8	<0.001	0.01	0.24	4.3	0.7	0.5	31.4	<0.01	0.01	2.7
FGL074 18+50N		1.28	22.5	500	9.7	8.6	<0.001	0.01	0.35	4.1	0.4	0.6	29.1	<0.01	0.01	3.1
FGL074 19+00N		0.99	13.3	360	9.8	9.3	<0.001	0.02	0.24	3.2	0.4	0.6	36.8	<0.01	0.02	0.7
FGL074 19+50N		0.98	15.9	530	7.3	8.0	0.001	0.01	0.28	5.4	0.5	0.5	49.0	<0.01	0.01	3.2
FGL074 20+00N		1.31	19.0	330	7.8	9.7	<0.001	0.01	0.32	4.3	0.5	0.5	23.9	<0.01	0.01	2.4
FGL074 20+50N		1.10	19.6	360	8.1	10.2	<0.001	0.01	0.35	4.2	0.5	0.6	21.0	<0.01	0.02	3.1
FGL074 21+00N		1.77	13.4	240	9.0	7.9	<0.001	0.01	0.26	3.5	0.2	0.8	20.3	<0.01	0.01	2.4
FGL074 21+50N		1.67	18.8	300	8.1	9.9	0.001	0.01	0.33	3.9	0.6	0.7	20.9	<0.01	0.02	3.0
FGL074 22+00N		1.62	14.3	420	8.5	9.7	<0.001	0.01	0.27	2.7	0.5	0.7	10.6	<0.01	0.01	2.3
FGL074 22+50N		1.12	17.5	410	9.3	11.1	0.001	0.01	0.26	3.5	0.8	0.5	33.4	<0.01	0.02	1.6

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL074 01+50N		0.058	0.10	0.38	59	0.17	3.76	62	0.8
FGL074 02+00N		0.068	0.11	0.44	64	0.17	3.84	43	1.2
FGL074 02+50N		0.030	0.10	0.30	57	0.13	3.05	74	0.6
FGL074 03+00N		0.083	0.10	0.58	60	0.15	4.92	47	1.3
FGL074 03+50N		0.071	0.12	0.49	64	0.18	4.41	46	0.8
FGL074 04+00N		0.084	0.10	0.60	56	0.19	3.53	44	2.7
FGL074 07+00N		0.122	0.09	0.59	68	0.15	8.78	156	2.8
FGL074 08+00N		0.112	0.06	0.54	55	0.20	7.06	76	1.5
FGL074 08+50N		0.102	0.06	0.40	51	0.11	4.18	60	1.9
FGL074 09+00N		0.086	0.09	0.52	60	0.14	3.29	50	0.8
FGL074 09+50N		0.092	0.09	0.49	63	0.16	3.44	52	0.8
FGL074 10+00N		0.124	0.07	0.50	69	0.13	4.21	69	1.5
FGL074 10+50N		0.098	0.11	0.47	69	0.18	3.31	49	2.0
FGL074 11+00N		0.088	0.11	0.59	63	0.18	5.12	45	1.1
FGL074 11+50N		0.086	0.10	0.50	64	0.18	4.30	52	1.4
FGL074 12+00N		0.110	0.11	0.69	73	0.17	4.85	61	3.6
FGL074 12+50N		0.078	0.10	0.53	58	0.19	5.90	52	1.3
FGL074 13+00N		0.075	0.10	0.46	57	0.16	3.63	49	1.1
FGL074 13+50N		0.074	0.10	0.53	56	0.17	4.87	48	0.8
FGL074 14+00N		0.074	0.10	0.47	51	0.17	3.40	43	1.0
FGL074 14+50N		0.069	0.13	0.55	58	0.17	3.97	65	0.9
FGL074 15+00N		0.056	0.15	0.61	63	0.18	8.42	145	1.2
FGL074 15+50N		0.082	0.09	0.47	59	0.20	3.86	75	1.0
FGL074 16+00N		0.044	0.11	0.47	51	0.19	11.85	63	0.6
FGL074 17+00N		0.030	0.06	23.7	64	0.12	79.2	91	1.2
FGL074 17+50N		0.036	0.07	1.21	48	0.14	23.2	48	<0.5
FGL074 18+00N		0.070	0.09	1.10	60	0.21	6.01	47	0.9
FGL074 18+50N		0.073	0.09	0.60	61	0.25	3.97	55	1.7
FGL074 19+00N		0.059	0.09	0.83	63	0.18	6.63	49	<0.5
FGL074 19+50N		0.054	0.07	1.14	55	0.15	9.85	56	1.4
FGL074 20+00N		0.060	0.09	0.61	61	0.17	6.61	48	1.2
FGL074 20+50N		0.071	0.10	0.57	61	0.21	4.13	54	1.7
FGL074 21+00N		0.099	0.12	0.46	73	0.20	3.29	41	1.8
FGL074 21+50N		0.097	0.11	0.50	71	0.20	3.64	50	2.7
FGL074 22+00N		0.071	0.10	0.41	65	0.21	2.32	45	1.5
FGL074 22+50N		0.055	0.09	0.75	64	0.19	9.22	54	<0.5

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

CERTIFICATE WH17164287

Project: Freegold Mtn - Tinta Property
P.O. No.: 1005139- NOFREG- R1
This report is for 167 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.
The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL075 00+00		0.59	0.0157	0.16	1.46	9.5	<0.02	<10	510	0.45	0.05	0.57	0.08	35.0	5.8	19
FGL075 00+50N		0.64	0.0019	0.09	1.43	7.7	<0.02	<10	790	0.45	0.26	0.33	0.06	26.5	6.6	18
FGL075 01+00N		0.52	0.0009	0.05	1.68	8.9	<0.02	<10	320	0.37	0.15	0.20	0.10	18.20	5.4	23
FGL075 01+50N		0.53	0.0007	0.06	1.70	4.8	<0.02	<10	400	0.46	0.09	0.20	0.06	19.05	6.1	18
FGL075 02+00N		0.67	0.0016	0.07	1.54	7.3	<0.02	<10	280	0.30	0.18	0.18	0.09	20.2	6.6	28
FGL075 02+50N		0.57	0.0022	0.04	0.81	7.7	0.02	<10	90	0.21	0.09	0.07	0.05	20.6	7.1	16
FGL075 03+00N		0.69	0.0019	0.02	1.19	4.5	<0.02	<10	340	0.35	0.09	0.29	0.05	27.4	5.6	24
FGL075 03+50N		0.46	0.0001	0.01	0.25	0.4	<0.02	<10	40	0.05	0.03	0.06	0.02	3.47	1.3	3
FGL075 04+00N		0.39	0.0010	0.09	0.56	2.1	<0.02	<10	210	0.14	0.05	0.12	0.05	6.77	2.1	7
FGL075 05+00N		0.83	0.0016	0.10	1.72	6.2	<0.02	<10	330	0.38	0.11	0.35	0.11	22.5	6.6	25
FGL075 05+50N		0.68	0.0006	0.06	0.46	1.6	<0.02	<10	160	0.08	0.05	0.20	0.06	7.39	6.1	9
FGL075 06+00N		0.48	0.0009	0.06	1.05	4.0	<0.02	<10	280	0.19	0.07	0.46	0.08	15.45	7.1	16
FGL075 06+50N		0.58	0.0008	0.03	0.87	1.4	<0.02	<10	190	0.16	0.06	0.27	0.04	11.15	2.5	13
FGL075 07+00N		0.50	0.0006	0.03	0.43	9.4	<0.02	<10	90	0.16	0.03	0.30	0.06	10.40	3.9	5
FGL075 07+50N		0.72	0.0012	0.09	1.82	5.2	<0.02	<10	210	0.41	0.10	0.43	0.09	24.4	8.4	25
FGL075 08+00N		0.46	0.0077	0.17	1.90	3.3	<0.02	<10	220	0.38	0.10	0.37	0.09	22.1	6.6	20
FGL075 08+50N		0.65	0.0055	0.05	1.70	3.6	<0.02	<10	190	0.41	0.08	0.49	0.05	29.8	8.6	22
FGL075 09+00N		0.49	0.0006	0.05	0.61	0.7	<0.02	<10	60	0.14	0.04	0.17	0.01	7.45	2.1	6
FGL075 09+50N		0.59	0.0044	0.06	1.67	4.9	<0.02	<10	120	0.37	0.10	0.21	0.05	16.70	5.9	20
FGL075 10+00N		0.81	0.0011	0.07	1.53	6.6	<0.02	<10	110	0.29	0.11	0.21	0.06	15.05	6.1	21
FGL075 10+50N		0.60	0.0008	0.05	1.66	6.5	<0.02	<10	130	0.35	0.11	0.35	0.07	20.8	8.7	24
FGL075 11+00N		0.73	0.0034	0.04	1.61	6.4	<0.02	<10	120	0.27	0.10	0.29	0.05	17.50	7.2	23
FGL075 11+50N		0.92	0.0020	0.03	1.58	5.7	<0.02	<10	120	0.28	0.11	0.36	0.03	17.70	7.3	23
FGL075 12+00N		0.70	0.0010	0.02	1.47	5.6	<0.02	<10	130	0.31	0.08	0.46	0.04	20.8	8.4	22
FGL075 12+50N		0.45	0.0017	0.05	0.49	2.7	<0.02	<10	80	0.19	0.05	0.36	0.01	10.05	4.2	7
FGL075 13+00N		0.67	0.0015	0.65	2.08	8.5	<0.02	<10	410	0.76	0.13	0.82	0.15	37.7	12.7	25
FGL075 13+50N		0.45	0.0016	0.37	2.12	3.7	<0.02	<10	430	0.57	0.09	0.58	0.07	25.4	6.6	21
FGL075 14+00N		0.52	0.0010	0.07	0.89	2.2	<0.02	<10	110	0.19	0.06	0.25	0.05	8.88	3.5	10
FGL075 14+50N		0.53	0.0028	0.19	1.58	5.4	<0.02	<10	280	0.39	0.09	0.63	0.09	18.85	8.2	20
FGL075 15+00N		0.37	0.0018	0.74	0.50	3.5	<0.02	<10	240	0.16	0.05	0.89	0.26	9.51	6.4	7
FGL075 15+50N		0.50	0.0017	0.41	1.84	4.4	<0.02	<10	280	0.68	0.09	0.93	0.28	19.60	6.4	16
FGL075 16+00N		0.21	0.0051	0.26	1.28	4.0	0.02	<10	470	0.53	0.07	1.58	1.28	20.0	7.6	14
FGL075 16+50N		0.34	0.0012	0.17	0.93	1.8	0.08	<10	230	0.34	0.06	0.79	0.41	17.00	3.7	10
FGL075 17+00N		0.45	0.0015	0.07	1.69	1.2	<0.02	<10	180	0.47	0.05	0.68	0.06	16.15	3.1	9
FGL075 17+50N		0.63	0.0013	0.04	1.86	4.0	<0.02	<10	150	0.36	0.07	0.51	0.03	14.40	5.9	15
FGL075 18+00N		0.58	0.0015	0.10	2.02	5.0	<0.02	<10	150	0.56	0.10	0.29	0.06	24.2	6.2	22
FGL075 18+50N		0.58	0.0011	0.07	2.82	8.0	<0.02	<10	200	0.63	0.14	0.50	0.06	19.30	10.4	25
FGL075 19+00N		0.64	0.0015	0.06	1.02	3.0	<0.02	<10	100	0.21	0.06	0.24	0.03	9.26	4.9	12
FGL075 19+50N		0.66	0.0010	0.04	1.83	8.6	<0.02	<10	170	0.51	0.12	0.30	0.06	18.30	5.7	19
FGL075 20+00N		0.52	0.0003	0.04	0.91	2.5	<0.02	<10	80	0.20	0.05	0.19	0.03	7.00	3.6	7

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VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL075 00+00		4.26	8.6	2.18	5.61	0.11	0.02	0.06	0.020	0.08	24.5	9.6	0.44	343	0.22	0.01
FGL075 00+50N		5.21	11.5	2.01	5.19	0.10	<0.02	0.02	0.020	0.09	19.2	8.7	0.29	363	0.63	0.02
FGL075 01+00N		2.02	13.4	2.19	5.53	0.09	<0.02	0.01	0.018	0.10	9.4	11.0	0.36	210	0.64	0.01
FGL075 01+50N		2.72	12.3	1.87	5.73	0.09	<0.02	0.03	0.018	0.09	11.3	8.2	0.25	413	0.53	0.03
FGL075 02+00N		2.04	13.8	2.10	7.46	<0.05	<0.02	0.03	0.022	0.06	10.4	10.9	0.35	276	0.88	0.01
FGL075 02+50N		1.77	5.6	1.87	5.64	<0.05	<0.02	0.02	0.016	0.06	10.5	3.7	0.15	423	0.92	0.01
FGL075 03+00N		1.16	11.3	1.73	4.61	0.05	<0.02	0.03	0.016	0.05	14.9	9.9	0.44	214	0.32	0.01
FGL075 03+50N		0.14	7.6	0.55	1.48	<0.05	<0.02	0.03	<0.005	0.03	1.8	0.4	0.02	29	0.11	0.02
FGL075 04+00N		1.68	8.7	0.86	2.64	<0.05	<0.02	0.04	0.007	0.04	3.8	1.9	0.07	67	0.34	0.02
FGL075 05+00N		1.71	13.4	2.07	6.69	0.05	<0.02	0.06	0.024	0.05	12.0	12.0	0.42	158	0.35	0.01
FGL075 05+50N		0.59	5.3	1.65	3.23	<0.05	<0.02	0.04	0.007	0.02	3.5	2.3	0.12	493	0.32	0.02
FGL075 06+00N		0.92	9.0	1.58	4.35	<0.05	0.02	0.05	0.013	0.04	8.2	7.7	0.32	575	0.36	0.02
FGL075 06+50N		0.74	11.7	0.82	3.51	<0.05	<0.02	0.04	0.010	0.03	5.9	5.3	0.20	74	0.16	0.02
FGL075 07+00N		0.20	18.0	1.94	1.80	<0.05	<0.02	0.03	0.005	0.02	4.9	1.3	0.06	227	0.31	0.02
FGL075 07+50N		0.85	19.4	2.16	6.53	<0.05	0.02	0.05	0.020	0.04	13.1	10.9	0.47	300	0.51	0.02
FGL075 08+00N		0.83	17.9	2.03	6.52	<0.05	0.02	0.06	0.017	0.05	11.9	8.5	0.30	176	0.41	0.02
FGL075 08+50N		0.67	13.1	2.24	6.72	0.05	0.03	0.03	0.017	0.05	15.7	10.3	0.50	261	0.38	0.02
FGL075 09+00N		0.24	4.9	0.75	2.61	<0.05	<0.02	0.03	0.005	0.03	3.8	2.2	0.09	56	0.12	0.03
FGL075 09+50N		0.85	11.8	1.78	5.86	<0.05	<0.02	0.03	0.016	0.05	8.6	8.6	0.36	188	0.50	0.02
FGL075 10+00N		0.93	12.0	2.09	6.48	<0.05	<0.02	0.03	0.017	0.06	7.8	9.6	0.34	172	0.56	0.02
FGL075 10+50N		0.99	12.7	2.38	7.27	<0.05	0.02	0.02	0.018	0.06	11.0	12.3	0.59	313	0.52	0.01
FGL075 11+00N		1.01	9.8	2.09	6.34	<0.05	0.02	0.02	0.018	0.05	9.0	12.7	0.51	243	0.46	0.01
FGL075 11+50N		0.97	9.4	2.11	6.72	<0.05	0.02	0.01	0.016	0.05	9.3	11.9	0.56	259	0.49	0.01
FGL075 12+00N		1.09	9.0	2.29	6.28	<0.05	0.03	0.02	0.018	0.04	10.7	12.5	0.68	360	0.33	0.01
FGL075 12+50N		0.32	6.3	1.57	2.87	<0.05	<0.02	0.03	0.005	0.02	5.3	1.9	0.10	198	0.31	0.03
FGL075 13+00N		1.90	19.7	2.75	7.07	0.06	0.03	0.06	0.028	0.05	21.0	15.8	0.54	485	0.98	0.02
FGL075 13+50N		3.36	22.5	1.98	6.67	<0.05	0.03	0.07	0.023	0.06	13.7	9.6	0.31	195	0.37	0.02
FGL075 14+00N		0.95	7.5	1.47	3.99	<0.05	<0.02	0.02	0.008	0.03	4.9	3.6	0.14	94	0.26	0.02
FGL075 14+50N		3.01	14.5	2.34	6.41	<0.05	0.03	0.03	0.018	0.04	10.6	10.5	0.41	347	0.47	0.01
FGL075 15+00N		1.75	13.6	2.05	3.39	<0.05	0.02	0.05	0.008	0.02	6.0	2.4	0.10	530	0.37	0.03
FGL075 15+50N		6.36	15.1	2.00	6.96	0.06	0.06	0.07	0.019	0.04	18.0	11.6	0.42	553	0.34	0.02
FGL075 16+00N		2.23	26.5	2.07	3.88	0.06	0.04	0.07	0.015	0.04	19.7	7.8	0.28	1250	0.33	0.02
FGL075 16+50N		1.13	15.1	1.05	3.37	<0.05	0.03	0.04	0.011	0.03	13.1	5.6	0.22	304	0.13	0.02
FGL075 17+00N		1.58	10.5	0.94	6.02	<0.05	0.03	0.07	0.014	0.04	9.4	7.2	0.22	156	0.18	0.03
FGL075 17+50N		0.85	8.4	1.88	6.84	<0.05	0.02	0.02	0.017	0.04	8.0	10.5	0.50	251	0.27	0.02
FGL075 18+00N		0.88	11.9	1.99	6.97	<0.05	0.02	0.04	0.018	0.04	14.0	8.5	0.35	176	0.43	0.02
FGL075 18+50N		1.23	15.1	2.91	11.70	<0.05	0.02	0.03	0.028	0.05	12.3	15.6	0.58	407	0.69	0.01
FGL075 19+00N		0.55	6.2	1.34	4.48	<0.05	<0.02	0.02	0.010	0.03	5.1	6.1	0.22	194	0.36	0.02
FGL075 19+50N		0.99	9.5	2.20	7.67	<0.05	0.02	0.02	0.019	0.04	11.2	10.3	0.35	186	0.63	0.01
FGL075 20+00N		0.37	5.8	0.96	3.36	<0.05	<0.02	0.01	0.008	0.03	3.1	4.0	0.17	205	0.22	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL075 00+00		0.68	9.7	1120	5.9	7.6	<0.001	0.02	0.29	5.0	0.6	0.4	58.7	<0.01	<0.01	2.6
FGL075 00+50N		0.67	10.4	570	8.0	9.1	<0.001	0.01	0.36	3.7	0.5	0.3	35.5	<0.01	0.01	1.6
FGL075 01+00N		1.05	14.5	400	8.0	9.2	<0.001	0.01	0.39	2.7	0.4	0.4	21.7	<0.01	0.02	1.5
FGL075 01+50N		0.69	9.3	430	5.3	9.5	<0.001	0.02	0.25	2.6	0.5	0.3	27.6	<0.01	0.01	0.7
FGL075 02+00N		1.37	12.9	260	7.4	12.9	0.001	<0.01	0.42	3.1	0.3	0.6	28.9	<0.01	0.02	1.6
FGL075 02+50N		0.98	7.0	280	8.5	10.8	0.001	<0.01	0.61	1.9	0.2	0.4	9.5	<0.01	0.01	1.0
FGL075 03+00N		0.97	12.1	400	5.3	5.4	0.001	<0.01	0.25	2.9	0.4	0.4	23.6	<0.01	0.01	1.5
FGL075 03+50N		0.09	1.1	190	0.8	1.2	<0.001	0.01	0.06	0.2	0.2	<0.2	11.2	<0.01	<0.01	<0.2
FGL075 04+00N		0.18	3.5	390	1.9	4.1	<0.001	0.02	0.12	0.5	0.2	0.2	22.8	<0.01	<0.01	<0.2
FGL075 05+00N		1.09	13.2	690	8.5	7.9	0.001	0.02	0.34	4.0	0.5	0.5	43.7	<0.01	0.02	1.3
FGL075 05+50N		0.25	4.1	650	1.4	2.6	0.001	0.03	0.12	1.0	0.3	0.2	31.2	<0.01	<0.01	<0.2
FGL075 06+00N		0.70	9.0	740	3.6	5.1	<0.001	0.03	0.23	2.4	0.3	0.3	89.6	<0.01	0.01	0.8
FGL075 06+50N		0.58	6.1	610	3.1	3.4	<0.001	0.03	0.18	1.3	0.3	0.2	36.0	<0.01	<0.01	0.3
FGL075 07+00N		0.21	2.9	710	1.3	1.1	<0.001	0.03	0.21	0.7	0.3	<0.2	28.3	<0.01	0.01	0.2
FGL075 07+50N		0.96	13.2	820	5.9	5.9	0.001	0.03	0.27	3.7	0.6	0.4	34.5	<0.01	0.02	1.0
FGL075 08+00N		0.83	11.4	790	5.0	5.8	0.001	0.04	0.21	3.0	0.5	0.4	36.3	<0.01	0.01	0.4
FGL075 08+50N		0.94	12.3	930	4.7	7.2	0.001	0.01	0.20	4.1	0.5	0.4	35.2	<0.01	0.01	1.6
FGL075 09+00N		0.24	2.7	450	1.5	2.6	0.001	0.01	0.07	1.0	<0.2	<0.2	15.8	<0.01	0.01	<0.2
FGL075 09+50N		0.95	10.4	380	5.6	7.8	<0.001	0.01	0.21	2.8	0.3	0.4	21.0	<0.01	0.01	1.1
FGL075 10+00N		0.98	11.7	450	6.4	10.1	<0.001	0.01	0.24	2.4	0.3	0.4	19.2	<0.01	0.01	0.8
FGL075 10+50N		1.18	14.1	560	6.6	12.1	0.001	<0.01	0.26	3.3	0.3	0.5	31.7	<0.01	0.02	1.7
FGL075 11+00N		1.20	13.7	460	6.2	9.1	<0.001	<0.01	0.25	3.0	0.2	0.4	22.3	<0.01	0.01	1.5
FGL075 11+50N		1.15	12.7	480	6.0	9.6	<0.001	<0.01	0.21	3.1	0.2	0.4	26.7	<0.01	0.01	1.5
FGL075 12+00N		1.03	11.9	630	6.0	7.4	0.001	<0.01	0.31	3.3	0.3	0.4	29.4	<0.01	0.01	2.1
FGL075 12+50N		0.30	3.5	660	1.6	1.6	0.001	0.02	0.13	1.0	0.2	<0.2	37.4	<0.01	0.01	0.2
FGL075 13+00N		0.88	16.8	1030	8.8	7.2	<0.001	0.03	0.57	5.2	1.0	0.4	81.9	<0.01	0.02	1.5
FGL075 13+50N		0.73	12.8	870	24.3	9.1	0.001	0.06	0.52	4.4	1.0	0.3	51.7	<0.01	0.01	0.7
FGL075 14+00N		0.53	5.2	360	4.3	4.9	<0.001	0.01	0.17	1.5	0.2	0.2	25.2	<0.01	<0.01	0.5
FGL075 14+50N		0.86	11.9	730	8.3	6.7	<0.001	0.03	0.53	3.2	0.6	0.4	56.1	<0.01	0.01	1.0
FGL075 15+00N		0.27	4.6	930	8.8	1.5	<0.001	0.05	1.50	1.0	0.5	<0.2	105.5	<0.01	0.01	0.2
FGL075 15+50N		0.80	9.0	890	10.7	5.0	0.001	0.07	1.26	4.2	1.0	0.3	85.9	<0.01	0.01	1.1
FGL075 16+00N		0.54	8.8	1070	16.5	4.5	0.001	0.15	0.56	2.3	1.0	0.2	142.0	<0.01	0.01	0.7
FGL075 16+50N		0.50	5.7	830	9.4	2.6	0.001	0.08	0.29	1.6	0.5	0.2	61.7	<0.01	0.01	0.6
FGL075 17+00N		0.50	5.1	640	3.3	4.5	<0.001	0.04	0.18	2.8	0.5	0.3	49.7	<0.01	<0.01	0.6
FGL075 17+50N		0.91	8.5	710	5.8	4.1	<0.001	<0.01	0.16	2.9	0.3	0.3	41.0	<0.01	0.01	1.2
FGL075 18+00N		1.00	11.2	490	7.5	5.8	<0.001	0.01	0.21	3.9	0.5	0.4	24.0	<0.01	0.01	1.3
FGL075 18+50N		1.25	15.0	580	9.8	9.0	<0.001	0.01	0.29	4.6	0.4	0.6	37.9	<0.01	0.02	1.4
FGL075 19+00N		0.67	6.3	370	3.6	3.7	<0.001	0.01	0.14	1.6	0.2	0.2	22.0	<0.01	0.01	0.6
FGL075 19+50N		1.29	10.0	350	7.0	6.3	<0.001	0.01	0.22	3.2	0.3	0.5	39.5	<0.01	0.02	1.2
FGL075 20+00N		0.49	3.6	350	2.3	3.4	<0.001	<0.01	0.08	1.2	<0.2	0.2	19.3	<0.01	<0.01	0.3

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL075 00+00		0.047	0.07	0.75	45	0.24	13.85	63	0.7
FGL075 00+50N		0.038	0.08	0.60	51	0.54	7.45	42	<0.5
FGL075 01+00N		0.061	0.09	0.43	54	0.15	2.84	50	<0.5
FGL075 01+50N		0.041	0.07	0.38	46	0.11	4.75	45	<0.5
FGL075 02+00N		0.061	0.09	0.35	53	0.23	3.45	49	0.5
FGL075 02+50N		0.043	0.07	0.23	49	0.13	2.16	55	<0.5
FGL075 03+00N		0.079	0.06	0.41	42	0.14	5.93	43	<0.5
FGL075 03+50N		0.025	0.02	0.12	19	<0.05	0.61	10	<0.5
FGL075 04+00N		0.023	0.04	0.23	23	0.05	1.64	17	<0.5
FGL075 05+00N		0.062	0.10	0.58	48	0.52	5.66	56	0.5
FGL075 05+50N		0.070	0.03	0.21	55	0.05	1.85	33	<0.5
FGL075 06+00N		0.064	0.07	0.44	41	0.24	4.43	45	0.7
FGL075 06+50N		0.044	0.06	0.34	20	0.11	2.62	28	<0.5
FGL075 07+00N		0.045	0.03	0.27	34	0.05	2.87	21	<0.5
FGL075 07+50N		0.084	0.07	0.73	52	0.17	6.35	48	0.8
FGL075 08+00N		0.081	0.07	0.61	52	0.10	5.57	37	0.7
FGL075 08+50N		0.122	0.07	0.61	60	0.14	7.01	49	1.2
FGL075 09+00N		0.049	0.03	0.20	24	0.05	1.42	15	<0.5
FGL075 09+50N		0.083	0.07	0.44	46	0.13	3.05	35	0.7
FGL075 10+00N		0.089	0.07	0.38	61	0.15	2.62	39	0.5
FGL075 10+50N		0.113	0.07	0.42	63	0.13	3.91	49	0.8
FGL075 11+00N		0.094	0.07	0.38	54	0.12	3.07	43	0.7
FGL075 11+50N		0.102	0.07	0.38	58	0.14	3.42	45	0.7
FGL075 12+00N		0.118	0.07	0.40	58	0.11	4.03	53	1.2
FGL075 12+50N		0.064	0.03	0.29	53	0.06	2.68	19	<0.5
FGL075 13+00N		0.070	0.08	5.38	64	0.12	14.25	60	1.0
FGL075 13+50N		0.058	0.09	1.28	54	0.13	10.05	60	1.0
FGL075 14+00N		0.066	0.05	0.26	46	0.07	1.65	27	0.5
FGL075 14+50N		0.081	0.07	0.59	66	0.14	5.86	51	1.1
FGL075 15+00N		0.076	0.05	0.85	68	0.05	4.94	33	0.8
FGL075 15+50N		0.058	0.07	1.46	50	0.13	13.05	53	1.7
FGL075 16+00N		0.023	0.08	2.40	28	0.14	19.75	106	1.4
FGL075 16+50N		0.034	0.06	2.26	29	0.09	10.75	48	1.0
FGL075 17+00N		0.036	0.05	1.62	20	0.07	6.70	28	1.3
FGL075 17+50N		0.073	0.05	0.55	46	0.13	3.68	45	0.5
FGL075 18+00N		0.073	0.07	0.81	60	0.17	8.94	39	0.8
FGL075 18+50N		0.103	0.09	0.70	77	0.18	7.72	60	0.6
FGL075 19+00N		0.053	0.05	0.40	39	0.12	2.56	26	<0.5
FGL075 19+50N		0.083	0.07	0.50	68	0.37	5.63	40	0.6
FGL075 20+00N		0.041	0.03	0.22	26	0.10	1.63	21	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL075 20+50N		0.68	0.0029	0.04	2.10	8.3	<0.02	<10	180	0.42	0.14	0.32	0.07	20.4	8.5	26
FGL075 21+00N		0.55	0.0005	0.05	1.31	6.1	<0.02	<10	110	0.26	0.09	0.20	0.06	15.40	5.4	17
FGL075 21+50N		0.67	0.0011	0.06	1.38	5.0	<0.02	<10	130	0.24	0.12	0.18	0.04	14.60	4.4	19
FGL075 22+00N		0.65	0.0012	0.08	2.07	18.5	<0.02	<10	300	0.65	0.11	0.52	0.05	27.0	9.0	31
FGL075 22+50N		0.57	0.0009	0.05	1.58	4.9	<0.02	<10	230	0.37	0.09	0.29	0.03	17.40	5.6	20
FGL075 23+00N		0.71	0.0010	0.01	1.46	6.1	<0.02	<10	170	0.30	0.08	0.41	0.04	19.80	7.8	24
FGL076 00+00		0.59	0.0014	0.06	2.17	6.6	<0.02	<10	1350	0.91	0.04	0.63	0.16	87.9	10.4	19
FGL076 00+50N		0.75	0.0012	0.02	2.02	9.3	<0.02	<10	240	0.40	0.13	0.19	0.08	19.85	7.1	24
FGL076 01+00N		0.80	0.0010	0.01	1.20	5.6	<0.02	<10	370	0.28	0.08	0.29	0.06	20.5	6.1	19
FGL076 01+50N		0.57	0.0018	0.08	1.64	6.1	<0.02	<10	1060	0.38	0.10	0.48	0.06	26.7	8.4	22
FGL076 02+00N		0.59	0.0032	0.02	1.18	9.8	<0.02	<10	1000	0.51	0.05	0.31	0.05	38.0	7.2	13
FGL076 02+50N		0.65	0.0006	0.01	1.98	13.1	<0.02	<10	190	0.36	0.11	0.16	0.09	24.1	9.8	24
FGL076 03+00N		0.56	0.0019	0.02	0.85	5.4	<0.02	<10	170	0.16	0.10	0.12	0.05	12.45	3.4	14
FGL076 03+50N		0.57	0.0006	0.02	0.94	4.7	<0.02	<10	100	0.14	0.09	0.10	0.05	11.00	3.4	11
FGL076 04+00N		0.75	0.0028	0.04	1.27	6.3	<0.02	<10	220	0.25	0.08	0.23	0.03	16.25	5.9	19
FGL076 04+50N		0.88	0.0010	0.03	1.57	7.9	<0.02	<10	710	0.45	0.11	0.29	0.05	28.9	6.9	26
FGL076 05+50N		0.69	0.0028	0.05	1.33	4.9	<0.02	<10	320	0.26	0.08	0.27	0.04	17.85	7.9	19
FGL076 06+00N		0.90	0.0020	0.05	1.39	6.0	0.04	<10	320	0.24	0.09	0.34	0.03	19.00	6.6	23
FGL076 06+50N		0.65	0.0014	0.04	1.17	4.3	<0.02	<10	180	0.19	0.08	0.25	0.06	16.95	4.3	18
FGL076 07+00N		0.38	0.0016	0.09	2.12	116.0	<0.02	<10	420	1.03	0.10	0.48	0.51	44.4	21.3	18
FGL076 07+50N		0.31	0.0026	0.21	1.75	51.5	<0.02	<10	350	0.51	0.09	0.74	0.16	22.0	17.5	21
FGL076 08+00N		0.40	0.0014	0.24	1.44	5.4	<0.02	<10	280	0.36	0.07	1.01	0.36	20.6	9.3	18
FGL076 08+50N		0.43	0.0015	0.25	1.36	4.6	<0.02	<10	220	0.32	0.06	0.97	0.29	20.9	7.6	18
FGL076 09+00N		0.36	0.0115	0.35	1.57	5.4	<0.02	<10	560	0.49	0.08	0.80	1.06	36.4	40.7	19
FGL076 09+50N		0.56	0.0025	0.20	1.54	2.9	<0.02	<10	230	0.33	0.07	0.79	0.27	21.6	7.5	19
FGL076 10+00N		0.51	0.0019	0.22	1.38	6.2	<0.02	<10	240	0.31	0.07	0.84	0.33	20.1	6.5	18
FGL076 10+50N		0.62	0.0029	0.26	1.53	3.7	<0.02	<10	280	0.37	0.07	0.86	0.32	21.1	7.5	19
FGL076 11+00N		0.50	0.0015	0.33	1.75	28.4	<0.02	<10	380	0.54	0.08	1.15	0.54	25.6	13.2	18
FGL076 12+00N		0.66	0.0010	0.10	1.36	4.5	<0.02	<10	150	0.35	0.06	0.31	0.03	14.60	4.7	14
FGL076 12+50N		0.66	0.0015	0.05	1.48	12.2	<0.02	<10	170	0.24	0.09	0.34	0.06	21.0	7.6	24
FGL076 13+00N		0.78	0.0010	0.35	1.55	10.2	<0.02	<10	210	0.36	0.09	0.37	0.08	20.0	8.4	24
FGL076 13+50N		0.64	0.0013	0.05	2.17	16.1	<0.02	<10	160	0.38	0.12	0.25	0.10	19.00	9.4	28
FGL076 14+00N		0.50	0.0007	0.11	1.03	1.4	<0.02	<10	150	0.18	0.04	0.51	0.03	8.55	3.2	8
FGL076 14+50N		0.44	0.0012	0.09	1.34	18.4	<0.02	<10	260	0.38	0.07	0.71	0.36	22.5	7.9	12
FGL076 15+50N		0.28	0.0010	0.17	0.80	15.5	<0.02	<10	140	0.18	0.07	0.55	0.21	10.10	4.2	7
FGL076 17+00N		0.88	0.0023	0.11	2.34	8.1	<0.02	<10	310	0.66	0.11	0.77	0.05	28.0	9.7	36
FGL076 17+50N		0.75	0.0004	0.09	1.00	2.1	<0.02	<10	100	0.22	0.08	0.29	0.05	9.76	3.9	10
FGL076 18+00N		0.81	0.0006	0.08	1.71	5.1	<0.02	<10	100	0.27	0.16	0.28	0.08	15.45	6.0	17
FGL076 18+50N		0.77	0.0010	0.03	2.10	12.8	0.09	<10	140	0.40	0.15	0.16	0.10	16.30	7.8	27
FGL076 19+00N		0.69	0.0034	0.06	2.70	10.5	<0.02	<10	140	0.50	0.13	0.35	0.11	22.2	9.8	29

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL075 20+50N		1.10	11.9	2.31	8.41	<0.05	0.03	0.03	0.025	0.05	10.3	15.7	0.52	313	0.54	0.01
FGL075 21+00N		0.70	15.0	1.65	4.75	<0.05	<0.02	0.02	0.015	0.04	7.2	7.9	0.28	158	0.47	0.01
FGL075 21+50N		0.74	10.1	1.67	6.00	<0.05	<0.02	0.01	0.015	0.04	7.6	8.4	0.30	176	0.58	0.01
FGL075 22+00N		0.85	20.3	2.26	6.83	<0.05	0.04	0.03	0.027	0.04	13.4	16.1	0.56	405	0.41	0.01
FGL075 22+50N		0.81	11.8	1.73	5.13	<0.05	<0.02	0.02	0.016	0.05	8.4	8.4	0.32	224	0.31	0.02
FGL075 23+00N		0.79	9.6	2.03	5.10	<0.05	0.03	0.01	0.017	0.04	9.7	11.6	0.52	317	0.38	0.01
FGL076 00+00		7.76	16.1	3.23	10.00	0.08	0.02	0.06	0.044	0.25	49.6	16.2	0.68	2840	0.57	0.01
FGL076 00+50N		4.02	13.9	2.51	8.22	<0.05	<0.02	0.01	0.023	0.07	10.1	13.1	0.40	264	0.75	0.01
FGL076 01+00N		1.92	7.8	1.90	5.03	<0.05	<0.02	0.01	0.018	0.07	10.2	10.7	0.39	290	0.47	0.01
FGL076 01+50N		2.38	15.6	2.03	5.81	<0.05	0.03	0.04	0.026	0.07	15.9	9.4	0.36	408	0.52	0.01
FGL076 02+00N		3.33	9.9	1.95	4.30	<0.05	<0.02	0.01	0.020	0.08	19.3	6.4	0.20	544	0.34	0.01
FGL076 02+50N		2.48	13.6	2.96	7.40	<0.05	0.03	0.01	0.030	0.10	11.7	15.1	0.44	385	0.72	0.01
FGL076 03+00N		0.77	9.7	1.46	4.80	<0.05	<0.02	0.01	0.010	0.05	6.4	7.5	0.22	116	0.47	0.01
FGL076 03+50N		1.11	7.9	1.41	5.29	<0.05	<0.02	0.01	0.011	0.05	5.6	5.7	0.18	137	0.48	0.01
FGL076 04+00N		1.38	10.2	1.85	4.56	<0.05	<0.02	0.01	0.017	0.05	8.0	9.0	0.35	166	0.36	0.01
FGL076 04+50N		3.20	13.6	2.07	5.45	0.05	0.02	0.02	0.021	0.05	17.3	11.5	0.42	253	0.49	0.01
FGL076 05+50N		3.26	12.1	2.03	5.50	<0.05	<0.02	0.02	0.020	0.05	9.9	9.3	0.39	297	0.47	0.01
FGL076 06+00N		1.95	11.4	2.06	5.21	<0.05	0.02	0.02	0.020	0.05	10.3	9.9	0.41	226	0.39	0.01
FGL076 06+50N		1.06	13.9	1.56	4.48	<0.05	<0.02	0.03	0.016	0.04	8.9	7.7	0.31	111	0.32	0.01
FGL076 07+00N		0.93	77.7	10.10	5.05	0.06	0.04	0.10	0.022	0.02	21.6	5.0	0.17	3060	2.87	0.01
FGL076 07+50N		1.58	20.6	7.13	5.72	0.05	0.03	0.07	0.021	0.04	12.3	10.1	0.38	1970	0.74	0.02
FGL076 08+00N		1.63	12.7	2.19	5.36	<0.05	0.03	0.06	0.018	0.04	11.5	10.9	0.45	1240	0.26	0.01
FGL076 08+50N		1.52	14.1	1.88	5.39	<0.05	0.03	0.05	0.018	0.04	11.6	10.7	0.45	435	0.19	0.01
FGL076 09+00N		1.48	21.9	3.74	5.86	<0.05	0.04	0.06	0.019	0.04	15.7	9.7	0.39	7470	0.76	0.01
FGL076 09+50N		1.77	12.2	1.86	5.89	<0.05	0.03	0.09	0.020	0.04	12.2	11.5	0.47	355	0.15	0.02
FGL076 10+00N		1.69	13.3	2.01	5.29	<0.05	0.03	0.05	0.019	0.03	11.8	9.8	0.44	486	0.20	0.02
FGL076 10+50N		1.86	14.5	1.82	5.86	<0.05	0.04	0.05	0.019	0.04	12.3	11.4	0.47	543	0.22	0.02
FGL076 11+00N		2.32	23.1	5.44	5.48	0.05	0.04	0.07	0.019	0.04	14.5	10.9	0.37	1960	1.20	0.02
FGL076 12+00N		1.69	12.3	1.46	4.98	<0.05	<0.02	0.03	0.013	0.05	8.1	6.1	0.25	171	0.32	0.03
FGL076 12+50N		1.92	10.4	2.31	6.07	<0.05	0.02	0.02	0.017	0.05	11.0	12.1	0.53	330	0.46	0.01
FGL076 13+00N		3.24	14.1	2.11	5.98	<0.05	<0.02	0.04	0.019	0.06	10.8	10.1	0.50	368	0.46	0.01
FGL076 13+50N		2.11	14.2	2.98	8.10	<0.05	0.02	0.02	0.026	0.07	9.2	15.0	0.53	361	0.61	0.01
FGL076 14+00N		2.20	9.0	0.57	3.09	<0.05	<0.02	0.03	0.008	0.04	4.6	8.0	0.14	120	0.14	0.04
FGL076 14+50N		0.96	51.9	3.13	4.44	<0.05	0.03	0.08	0.016	0.02	12.9	4.7	0.24	588	1.67	0.02
FGL076 15+50N		0.65	46.4	1.70	2.44	<0.05	<0.02	0.09	0.008	0.02	5.3	1.8	0.07	691	0.52	0.02
FGL076 17+00N		0.92	23.2	2.85	8.62	<0.05	0.04	0.05	0.029	0.04	14.7	12.6	0.63	333	0.71	0.01
FGL076 17+50N		0.45	12.7	1.07	4.55	<0.05	<0.02	0.04	0.012	0.03	5.1	4.2	0.17	148	0.41	0.02
FGL076 18+00N		1.14	10.6	2.06	9.21	<0.05	0.02	0.02	0.018	0.04	8.0	9.9	0.36	276	0.78	0.01
FGL076 18+50N		1.25	17.8	2.80	8.38	<0.05	0.04	0.02	0.024	0.06	8.4	16.3	0.43	229	0.86	0.01
FGL076 19+00N		1.22	20.2	2.73	8.17	<0.05	0.07	0.02	0.028	0.06	9.3	15.2	0.58	323	0.69	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL075 20+50N		1.54	13.7	370	9.2	8.3	<0.001	0.01	0.27	3.8	0.3	0.6	31.0	<0.01	0.02	2.1
FGL075 21+00N		0.84	7.3	350	5.3	5.3	<0.001	0.01	0.26	2.1	0.2	0.3	17.8	<0.01	0.03	0.9
FGL075 21+50N		1.12	5.1	280	6.4	6.6	<0.001	0.01	0.19	2.3	<0.2	0.4	16.4	<0.01	0.02	1.0
FGL075 22+00N		0.95	12.9	710	6.7	5.1	<0.001	0.03	0.26	4.1	0.4	0.5	48.7	<0.01	0.01	1.1
FGL075 22+50N		0.75	7.6	450	5.2	5.8	<0.001	0.01	0.17	3.0	0.2	0.3	28.9	<0.01	0.01	1.2
FGL075 23+00N		0.92	10.2	650	7.3	6.2	<0.001	0.01	0.26	2.9	0.2	0.3	27.5	<0.01	0.01	2.1
FGL076 00+00		0.43	8.9	1460	6.6	19.4	<0.001	0.02	0.43	9.9	0.7	0.5	76.7	<0.01	0.01	3.4
FGL076 00+50N		1.27	9.4	390	8.4	11.9	<0.001	0.01	0.33	3.6	0.2	0.6	25.8	<0.01	0.03	1.7
FGL076 01+00N		0.93	6.6	410	5.5	9.9	<0.001	0.01	0.31	2.8	<0.2	0.4	38.5	<0.01	0.01	1.8
FGL076 01+50N		0.83	7.5	620	6.9	8.5	<0.001	0.03	0.31	5.0	0.4	0.4	76.8	<0.01	0.02	1.6
FGL076 02+00N		0.45	3.7	350	5.6	10.0	<0.001	0.01	0.58	3.2	0.3	0.3	47.7	<0.01	0.01	1.6
FGL076 02+50N		1.16	11.3	450	7.6	14.1	<0.001	0.01	0.51	4.0	0.3	0.5	15.1	<0.01	0.02	2.3
FGL076 03+00N		0.87	2.2	220	4.2	7.8	<0.001	0.01	0.19	1.5	<0.2	0.3	14.2	<0.01	0.02	0.4
FGL076 03+50N		0.88	1.4	210	4.4	9.0	<0.001	0.01	0.21	1.4	0.2	0.4	12.0	<0.01	0.01	0.3
FGL076 04+00N		0.71	8.2	460	4.5	6.7	<0.001	0.01	0.25	2.2	0.3	0.3	19.4	<0.01	0.02	0.6
FGL076 04+50N		0.98	12.3	410	6.6	8.2	<0.001	0.01	0.30	4.2	0.3	0.4	25.3	<0.01	0.01	2.1
FGL076 05+50N		0.74	6.2	780	5.3	8.2	<0.001	0.02	0.33	2.9	0.4	0.3	24.6	<0.01	0.01	1.1
FGL076 06+00N		0.94	8.0	800	6.0	7.6	<0.001	0.02	0.34	3.3	0.3	0.3	34.6	<0.01	0.01	1.9
FGL076 06+50N		0.70	6.0	770	4.4	6.0	<0.001	0.02	0.21	2.1	0.2	0.3	21.8	<0.01	0.01	0.5
FGL076 07+00N		0.61	7.3	1310	6.7	2.8	<0.001	0.15	1.06	2.1	1.0	0.2	58.0	<0.01	0.06	0.5
FGL076 07+50N		0.76	8.6	1070	15.4	8.4	<0.001	0.10	0.92	3.5	0.8	0.3	80.7	<0.01	0.02	1.0
FGL076 08+00N		0.68	6.6	1250	15.4	8.2	<0.001	0.08	0.80	3.4	0.5	0.3	81.2	<0.01	0.01	0.9
FGL076 08+50N		0.74	5.8	1130	14.3	7.1	<0.001	0.08	0.76	3.5	0.5	0.3	76.8	<0.01	0.01	1.0
FGL076 09+00N		0.68	9.6	1110	12.8	5.7	<0.001	0.08	0.87	3.6	0.7	0.3	77.6	<0.01	0.01	1.0
FGL076 09+50N		0.77	6.1	1190	15.3	6.6	<0.001	0.07	0.68	3.5	0.3	0.3	61.3	<0.01	<0.01	1.0
FGL076 10+00N		0.71	5.1	1170	16.2	5.1	<0.001	0.07	0.81	3.3	0.5	0.3	67.2	<0.01	0.02	1.0
FGL076 10+50N		0.76	6.1	1030	16.7	6.6	<0.001	0.08	0.87	3.7	0.4	0.3	69.2	<0.01	0.01	1.1
FGL076 11+00N		0.69	6.9	990	12.3	9.5	<0.001	0.10	2.12	4.0	0.8	0.3	121.5	<0.01	0.02	0.8
FGL076 12+00N		0.51	3.2	440	3.6	9.8	<0.001	0.02	0.32	2.6	0.3	0.3	26.6	<0.01	0.02	0.3
FGL076 12+50N		0.95	10.9	580	8.7	8.1	<0.001	0.01	0.81	3.5	0.2	0.4	21.7	<0.01	0.03	2.2
FGL076 13+00N		0.76	9.4	660	19.7	8.9	<0.001	0.01	3.06	3.6	0.2	0.4	25.9	<0.01	0.01	0.7
FGL076 13+50N		1.29	12.9	460	12.6	11.9	<0.001	0.01	3.19	3.9	0.2	0.5	19.9	<0.01	0.02	1.4
FGL076 14+00N		0.30	0.2	460	2.7	4.5	<0.001	0.05	0.16	0.9	<0.2	0.2	62.3	<0.01	<0.01	<0.2
FGL076 14+50N		0.55	3.1	1170	4.4	1.7	<0.001	0.15	0.69	2.0	0.6	0.2	65.8	<0.01	0.03	0.4
FGL076 15+50N		0.28	0.3	860	40.5	1.2	<0.001	0.10	0.40	0.5	0.3	<0.2	51.3	<0.01	0.03	<0.2
FGL076 17+00N		0.99	15.6	960	10.4	6.6	<0.001	0.02	0.36	6.3	0.4	0.5	51.0	<0.01	0.02	1.9
FGL076 17+50N		0.49	6.4	560	4.8	3.3	0.001	0.01	0.15	1.2	0.2	0.2	25.0	<0.01	0.02	0.2
FGL076 18+00N		1.36	8.3	330	8.5	8.2	0.001	<0.01	0.23	2.8	0.2	0.6	26.1	<0.01	0.01	1.4
FGL076 18+50N		1.63	17.1	370	12.5	9.2	<0.001	<0.01	0.42	3.2	0.3	0.5	16.0	<0.01	0.03	2.0
FGL076 19+00N		1.44	18.2	450	10.7	8.3	<0.001	<0.01	0.35	4.3	0.3	0.5	38.8	0.01	0.02	3.0

***** See Appendix Page for comments regarding this certificate *****

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL075 20+50N		0.067	0.10	0.80	61	0.20	4.69	51	1.2
FGL075 21+00N		0.048	0.05	0.33	41	0.16	2.55	31	<0.5
FGL075 21+50N		0.061	0.07	0.39	51	0.22	2.38	32	0.5
FGL075 22+00N		0.049	0.07	6.26	61	0.19	7.33	45	1.0
FGL075 22+50N		0.049	0.06	1.16	44	0.13	5.14	35	<0.5
FGL075 23+00N		0.054	0.06	0.52	44	0.15	4.10	50	1.1
FGL076 00+00		0.052	0.12	0.61	60	0.05	12.55	111	0.6
FGL076 00+50N		0.049	0.09	0.35	60	0.16	3.03	56	0.5
FGL076 01+00N		0.052	0.06	0.29	43	0.10	3.27	58	0.6
FGL076 01+50N		0.035	0.06	0.57	43	0.13	9.60	60	0.9
FGL076 02+00N		0.018	0.08	0.31	33	0.08	6.10	59	<0.5
FGL076 02+50N		0.061	0.09	0.32	61	0.16	3.61	73	1.0
FGL076 03+00N		0.064	0.05	0.23	42	0.11	2.10	33	<0.5
FGL076 03+50N		0.057	0.05	0.21	41	0.12	1.51	34	<0.5
FGL076 04+00N		0.058	0.06	0.31	44	0.12	3.32	46	<0.5
FGL076 04+50N		0.055	0.09	0.52	47	0.14	8.78	54	0.5
FGL076 05+50N		0.047	0.09	0.36	43	0.10	4.08	67	<0.5
FGL076 06+00N		0.060	0.08	0.42	45	0.12	4.26	65	1.0
FGL076 06+50N		0.053	0.07	0.42	35	0.13	4.02	45	<0.5
FGL076 07+00N		0.032	0.08	1.04	212	0.14	14.45	74	1.4
FGL076 07+50N		0.046	0.08	1.97	61	0.11	9.57	86	1.2
FGL076 08+00N		0.058	0.06	1.71	45	0.07	8.37	101	1.1
FGL076 08+50N		0.060	0.06	1.58	47	0.08	7.60	83	1.1
FGL076 09+00N		0.055	0.09	1.87	48	0.11	10.20	110	1.3
FGL076 09+50N		0.062	0.07	1.55	47	0.27	7.60	91	1.1
FGL076 10+00N		0.057	0.07	1.83	50	0.40	8.15	88	1.2
FGL076 10+50N		0.060	0.07	1.88	46	0.11	8.35	93	1.2
FGL076 11+00N		0.046	0.09	3.11	70	0.11	12.75	86	1.6
FGL076 12+00N		0.052	0.06	0.38	38	0.09	5.04	33	<0.5
FGL076 12+50N		0.076	0.07	0.37	58	0.15	3.84	56	0.9
FGL076 13+00N		0.070	0.10	0.60	52	0.11	5.57	59	<0.5
FGL076 13+50N		0.089	0.09	0.42	71	0.15	3.99	61	0.8
FGL076 14+00N		0.020	0.06	0.70	12	0.05	2.61	18	<0.5
FGL076 14+50N		0.044	0.07	0.89	64	0.08	8.56	28	1.4
FGL076 15+50N		0.021	0.06	0.93	45	<0.05	2.48	42	0.6
FGL076 17+00N		0.067	0.06	2.08	67	0.18	9.58	59	1.2
FGL076 17+50N		0.044	0.04	0.38	32	0.10	2.28	22	<0.5
FGL076 18+00N		0.081	0.07	0.38	60	0.12	2.63	40	0.9
FGL076 18+50N		0.097	0.07	0.37	70	0.23	2.92	50	1.5
FGL076 19+00N		0.100	0.07	0.55	63	0.21	3.20	58	2.8

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL076 19+50N		0.84	0.0009	0.03	1.71	6.7	<0.02	<10	160	0.40	0.09	0.33	0.06	20.2	7.3	20
FGL076 20+00N		0.88	0.0004	0.03	1.84	7.1	<0.02	<10	160	0.32	0.11	0.25	0.06	15.20	8.1	21
FGL076 20+50N		0.74	0.0014	0.07	1.89	6.5	<0.02	<10	190	0.30	0.12	0.61	0.11	16.10	8.1	24
FGL076 21+00N		0.80	0.0005	0.11	1.58	3.8	<0.02	<10	160	0.48	0.07	0.44	0.07	15.80	5.6	12
FGL076 21+50N		0.65	0.0008	0.12	1.46	3.3	<0.02	<10	170	0.50	0.06	0.71	0.07	15.85	4.1	13
FGL076 22+00N		0.78	0.0013	0.03	1.85	11.0	<0.02	<10	200	0.49	0.10	0.44	0.05	25.9	7.0	25
FGL076 22+50N		0.78	0.0009	0.14	1.50	7.3	<0.02	<10	320	0.41	0.08	0.87	0.06	19.10	7.3	22
FGL076 23+00N		0.41	0.0015	0.11	1.18	6.0	<0.02	<10	300	0.35	0.08	0.81	0.13	21.6	5.9	15
FGL077 00+00		0.51	0.0005	0.07	1.29	4.4	<0.02	<10	260	0.28	0.41	0.78	0.12	13.25	5.6	17
FGL077 00+50S		0.64	0.0003	0.02	0.97	4.9	<0.02	<10	70	0.13	0.08	0.22	0.06	8.99	4.1	22
FGL077 01+00S		0.74	0.0014	0.09	1.83	20.9	<0.02	<10	340	0.64	0.07	0.94	0.10	28.3	7.6	18
FGL077 02+00S		0.62	0.0005	0.14	1.71	4.9	<0.02	<10	130	0.62	0.09	0.78	0.15	19.00	5.6	15
FGL077 02+50S		0.76	0.0012	0.02	1.85	9.2	<0.02	<10	140	0.33	0.10	0.47	0.09	18.30	8.5	22
FGL077 03+00S		0.83	0.0073	0.03	1.38	8.3	<0.02	<10	80	0.20	0.14	0.18	0.07	15.90	5.1	20
FGL077 03+50S		0.80	0.0013	0.11	2.37	9.7	<0.02	<10	140	0.50	0.13	0.34	0.09	21.5	9.3	27
FGL077 04+00S		0.61	0.0012	0.13	2.17	7.2	<0.02	<10	300	0.58	0.10	0.74	0.10	28.7	7.5	18
FGL077 04+50S		0.61	0.0006	0.03	0.97	5.3	<0.02	<10	80	0.16	0.10	0.16	0.11	11.30	3.6	11
FGL077 05+00S		0.52	0.0015	0.73	1.93	10.8	<0.02	<10	440	0.67	0.07	0.58	0.16	55.3	7.0	11
FGL077 05+50S		0.57	0.0005	0.43	1.49	4.3	<0.02	<10	270	0.44	0.09	0.34	0.19	34.5	4.6	11
FGL077 06+00S		0.70	0.0016	0.08	1.52	4.6	<0.02	<10	220	0.45	0.12	0.41	0.10	30.8	7.0	24
FGL077 06+50S		0.65	0.0014	0.05	2.73	11.4	<0.02	<10	160	0.37	0.12	0.52	0.15	19.20	7.9	20
FGL077 07+50S		0.57	0.0006	0.03	1.41	6.8	<0.02	<10	120	0.31	0.09	0.20	0.05	18.80	5.9	18
FGL077 08+00S		0.75	0.0010	0.05	2.21	9.9	<0.02	<10	120	0.34	0.14	0.19	0.08	18.05	8.5	30
FGL077 08+50S		0.73	0.0009	0.22	2.20	10.7	<0.02	<10	220	0.82	0.09	0.44	0.06	46.1	10.2	26
FGL077 09+00S		0.50	0.0010	0.04	1.51	11.3	<0.02	<10	90	0.26	0.14	0.13	0.08	15.55	4.5	23
FGL077 09+50S		0.66	0.0019	0.06	2.17	12.1	<0.02	<10	170	0.38	0.13	0.26	0.12	24.4	9.1	28
FGL077 10+00S		0.62	0.0006	0.12	1.41	5.7	<0.02	<10	130	0.18	0.14	0.15	0.15	14.15	4.1	18
FGL077 10+50S		0.81	0.0017	0.10	2.65	21.2	<0.02	<10	200	0.52	0.14	0.17	0.16	23.5	11.1	32
FGL077 11+00S		0.62	0.0042	0.09	1.36	9.0	<0.02	<10	140	0.30	0.12	0.23	0.07	19.65	4.2	16
FGL077 12+00S		0.86	0.0030	0.05	1.58	6.9	<0.02	<10	180	0.29	0.13	0.37	0.04	19.70	6.4	23
FGL077 12+50S		0.69	0.0012	0.09	1.58	4.4	<0.02	<10	180	0.35	0.08	0.54	0.06	18.60	7.1	21
FGL077 13+00S		0.49	0.0008	0.07	1.14	3.5	<0.02	<10	140	0.24	0.06	0.38	0.05	15.25	5.1	17
FGL077 13+50S		0.51	0.0015	0.06	1.74	6.9	<0.02	<10	210	0.44	0.10	0.53	0.07	26.4	8.7	29
FGL077 14+00S		0.29	0.0047	0.07	1.15	6.7	<0.02	<10	160	0.39	0.07	0.36	0.10	19.00	3.9	16
FGL077 14+50S		0.42	<0.0001	0.16	1.77	11.3	<0.02	<10	380	0.57	0.11	0.54	0.71	32.1	5.0	29
FGL077 16+00S		0.73	0.0016	0.08	1.44	3.9	<0.02	<10	240	0.29	0.08	0.37	0.08	20.4	5.8	21
FGL077 16+50S		0.74	0.0009	0.08	1.97	7.4	<0.02	<10	440	0.25	0.07	0.52	0.06	16.20	12.6	22
FGL077 17+00S		0.45	0.0005	0.07	0.79	5.5	<0.02	<10	290	0.29	0.04	0.24	0.04	16.60	4.7	10
FGL077 17+50S		0.68	0.0016	0.04	1.21	115.5	<0.02	<10	330	0.33	0.07	0.25	0.10	20.4	6.0	16
FGL077 18+00S		0.67	0.0019	0.04	2.21	9.9	<0.02	<10	270	0.54	0.14	0.18	0.11	21.6	8.9	32

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL076 19+50N		1.03	9.7	2.05	6.10	<0.05	0.02	0.01	0.018	0.05	10.7	11.2	0.45	315	0.44	0.01
FGL076 20+00N		0.99	12.1	2.04	6.27	<0.05	0.02	0.01	0.018	0.04	7.4	10.7	0.40	529	0.50	0.01
FGL076 20+50N		0.99	18.8	2.10	7.71	<0.05	0.02	0.02	0.021	0.05	8.1	12.9	0.51	379	0.44	0.01
FGL076 21+00N		0.52	12.5	1.68	5.72	<0.05	0.02	0.03	0.016	0.04	9.3	7.3	0.30	270	0.30	0.02
FGL076 21+50N		0.44	15.3	1.16	4.46	<0.05	0.04	0.05	0.013	0.04	10.8	6.1	0.27	228	0.31	0.02
FGL076 22+00N		1.12	12.7	2.12	6.29	<0.05	0.04	0.02	0.019	0.04	13.5	12.0	0.51	306	0.48	0.01
FGL076 22+50N		0.72	15.5	1.79	5.24	<0.05	0.04	0.04	0.019	0.05	10.1	10.4	0.46	356	0.30	0.01
FGL076 23+00N		0.88	23.9	1.44	4.04	<0.05	0.03	0.05	0.014	0.05	15.4	7.2	0.28	386	0.35	0.02
FGL077 00+00		1.08	12.3	1.45	4.58	<0.05	0.02	0.03	0.013	0.04	7.8	7.5	0.31	388	0.31	0.02
FGL077 00+50S		0.83	7.3	1.69	6.35	<0.05	0.02	0.01	0.011	0.05	4.6	9.6	0.34	165	0.52	0.01
FGL077 01+00S		1.25	13.2	2.04	6.73	0.05	0.04	0.05	0.021	0.05	20.5	11.7	0.53	404	0.30	0.01
FGL077 02+00S		0.64	23.3	1.81	6.39	<0.05	<0.02	0.03	0.019	0.03	11.0	7.9	0.34	262	0.41	0.01
FGL077 02+50S		0.93	12.9	2.21	7.08	<0.05	0.04	0.03	0.020	0.05	8.4	11.8	0.49	293	0.47	0.01
FGL077 03+00S		0.90	8.8	2.00	7.05	<0.05	<0.02	0.01	0.015	0.04	8.3	8.5	0.31	200	0.67	<0.01
FGL077 03+50S		1.04	13.3	2.79	8.19	<0.05	0.04	0.02	0.024	0.05	11.4	13.2	0.51	348	0.71	0.01
FGL077 04+00S		2.17	15.7	2.10	7.39	<0.05	0.02	0.04	0.022	0.06	16.5	11.6	0.40	548	0.45	0.01
FGL077 04+50S		1.43	9.5	1.53	5.32	<0.05	<0.02	0.01	0.013	0.04	5.8	5.6	0.18	174	0.51	0.01
FGL077 05+00S		10.70	15.4	2.03	6.62	0.06	0.04	0.11	0.024	0.11	27.4	8.9	0.28	1220	0.67	0.02
FGL077 05+50S		7.66	25.6	1.45	6.09	<0.05	<0.02	0.04	0.018	0.08	13.8	7.8	0.19	393	0.51	0.02
FGL077 06+00S		2.48	15.9	1.87	5.14	<0.05	0.04	0.05	0.021	0.05	17.3	10.0	0.41	182	0.25	0.01
FGL077 06+50S		7.67	17.5	2.57	10.40	<0.05	0.02	0.02	0.023	0.10	8.8	15.2	0.51	402	0.72	0.02
FGL077 07+50S		1.71	12.2	1.82	4.91	<0.05	<0.02	0.01	0.016	0.05	9.9	8.2	0.32	191	0.46	0.02
FGL077 08+00S		1.63	15.2	2.92	7.64	<0.05	0.03	0.01	0.024	0.07	9.3	13.9	0.50	302	0.72	0.01
FGL077 08+50S		10.90	11.2	3.45	8.99	<0.05	0.02	0.04	0.036	0.06	28.9	14.0	0.56	734	0.48	0.01
FGL077 09+00S		1.37	9.4	2.77	7.72	<0.05	0.02	0.02	0.020	0.05	8.3	11.6	0.32	150	0.74	0.01
FGL077 09+50S		2.83	11.8	2.65	6.71	<0.05	0.02	0.04	0.026	0.07	13.0	16.1	0.42	244	0.64	0.01
FGL077 10+00S		1.12	13.1	1.72	6.34	<0.05	<0.02	0.02	0.014	0.05	7.4	7.2	0.23	171	0.63	0.01
FGL077 10+50S		1.80	15.1	2.93	7.62	<0.05	0.13	0.04	0.028	0.08	11.2	16.1	0.54	238	0.75	0.01
FGL077 11+00S		1.28	13.9	1.76	6.34	<0.05	<0.02	0.03	0.014	0.05	11.3	6.7	0.23	143	0.53	0.01
FGL077 12+00S		1.39	12.5	1.88	6.23	<0.05	0.02	0.02	0.018	0.05	10.5	10.9	0.48	220	0.44	0.01
FGL077 12+50S		0.97	16.0	1.76	5.49	<0.05	<0.02	0.03	0.017	0.05	9.5	8.6	0.42	230	0.30	0.02
FGL077 13+00S		0.74	12.8	1.46	4.15	<0.05	<0.02	0.03	0.011	0.03	8.1	6.1	0.34	156	0.26	0.02
FGL077 13+50S		1.08	14.8	2.34	5.93	0.08	0.03	0.03	0.023	0.04	13.3	10.9	0.59	247	0.43	0.01
FGL077 14+00S		0.84	17.9	1.87	4.04	0.06	0.02	0.05	0.014	0.03	9.8	5.6	0.23	148	0.31	0.02
FGL077 14+50S		1.49	33.4	1.64	5.70	0.08	<0.02	0.12	0.026	0.05	18.1	9.9	0.35	139	0.47	0.01
FGL077 16+00S		1.17	9.2	1.84	5.58	0.08	0.03	0.06	0.023	0.05	11.0	11.1	0.48	182	0.20	0.01
FGL077 16+50S		3.72	8.8	2.95	10.05	0.07	0.03	0.03	0.028	0.07	8.6	13.5	0.75	881	0.71	0.01
FGL077 17+00S		1.98	9.9	1.16	3.31	0.06	<0.02	0.03	0.013	0.04	8.3	5.1	0.22	231	0.32	0.02
FGL077 17+50S		3.62	7.7	1.96	5.34	0.08	<0.02	0.13	0.022	0.08	10.3	8.0	0.34	304	0.43	0.01
FGL077 18+00S		1.90	16.9	2.61	6.03	0.08	0.03	0.02	0.029	0.08	9.8	13.1	0.48	354	0.72	0.01

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL076 19+50N		0.84	12.5	460	8.4	7.1	<0.001	<0.01	0.24	3.1	0.4	0.4	25.5	<0.01	0.01	1.8
FGL076 20+00N		1.05	12.8	370	7.8	6.1	<0.001	<0.01	0.24	2.7	0.2	0.4	34.4	<0.01	0.02	1.3
FGL076 20+50N		1.11	12.9	460	8.3	5.8	<0.001	0.01	0.20	3.0	0.3	0.5	48.3	<0.01	0.02	0.9
FGL076 21+00N		0.57	7.8	610	4.6	4.2	<0.001	0.01	0.13	2.5	0.3	0.3	35.2	<0.01	0.01	0.6
FGL076 21+50N		0.48	6.9	770	3.6	3.1	<0.001	0.06	0.15	2.1	0.5	0.2	60.8	<0.01	0.02	0.5
FGL076 22+00N		1.03	14.7	380	8.2	5.5	<0.001	<0.01	0.25	3.6	0.3	0.4	41.5	<0.01	0.02	2.1
FGL076 22+50N		0.70	11.6	790	7.1	5.6	<0.001	0.04	0.34	2.6	0.4	0.3	107.0	<0.01	0.02	0.8
FGL076 23+00N		0.57	9.3	640	5.4	6.5	<0.001	0.04	0.22	2.0	0.5	0.2	94.7	<0.01	0.01	0.8
FGL077 00+00		0.67	8.7	560	5.1	5.4	<0.001	0.03	0.22	1.9	0.3	0.3	66.9	<0.01	0.02	0.5
FGL077 00+50S		1.22	8.2	140	4.7	8.0	<0.001	<0.01	0.20	1.8	<0.2	0.4	21.6	<0.01	0.01	0.9
FGL077 01+00S		0.72	11.3	720	7.1	5.5	<0.001	0.02	0.23	3.9	0.7	0.3	68.0	<0.01	0.01	1.5
FGL077 02+00S		0.57	9.0	790	6.8	4.4	<0.001	0.03	0.18	2.0	0.3	0.3	60.7	0.01	0.01	0.2
FGL077 02+50S		1.03	16.6	410	13.4	6.1	<0.001	<0.01	0.36	3.1	0.3	0.4	38.2	0.01	0.02	1.8
FGL077 03+00S		1.31	9.7	260	11.4	8.3	<0.001	<0.01	0.29	2.2	0.2	0.5	15.7	<0.01	0.03	1.2
FGL077 03+50S		1.29	15.9	470	17.0	8.4	<0.001	<0.01	0.37	3.9	0.3	0.5	32.5	0.01	0.02	2.2
FGL077 04+00S		0.73	11.4	640	18.9	8.8	<0.001	0.02	0.22	3.8	0.5	0.4	58.5	<0.01	0.02	0.7
FGL077 04+50S		0.71	5.8	430	11.9	6.8	<0.001	0.01	0.25	1.2	0.3	0.4	17.0	<0.01	0.02	0.3
FGL077 05+00S		0.43	8.3	890	17.2	16.6	<0.001	0.06	0.57	4.4	0.9	0.3	45.5	<0.01	0.04	1.1
FGL077 05+50S		0.49	7.3	520	23.3	13.9	<0.001	0.02	0.33	2.1	0.4	0.3	32.5	<0.01	0.01	0.4
FGL077 06+00S		1.13	12.9	820	11.4	6.2	<0.001	0.01	0.48	4.6	0.6	0.4	26.4	<0.01	0.02	3.1
FGL077 06+50S		1.42	13.2	620	8.6	8.5	<0.001	<0.01	0.29	3.3	0.3	0.5	48.0	0.01	0.02	1.8
FGL077 07+50S		0.73	12.0	400	4.9	6.6	<0.001	<0.01	0.30	2.7	0.3	0.3	18.3	<0.01	0.02	1.0
FGL077 08+00S		1.38	16.0	410	9.3	9.6	<0.001	<0.01	0.40	3.8	0.4	0.5	19.0	<0.01	0.02	2.3
FGL077 08+50S		0.68	14.3	940	14.7	9.4	<0.001	<0.01	1.02	8.5	0.5	0.6	27.6	<0.01	0.01	2.9
FGL077 09+00S		1.31	9.3	540	7.6	7.9	<0.001	0.01	0.30	2.1	0.2	0.5	14.2	<0.01	0.03	0.7
FGL077 09+50S		1.42	16.9	580	8.8	9.4	<0.001	<0.01	0.55	4.3	0.4	0.5	20.1	<0.01	0.03	2.0
FGL077 10+00S		1.12	7.6	450	6.2	9.0	<0.001	0.01	0.22	1.8	0.2	0.4	16.3	<0.01	0.02	0.8
FGL077 10+50S		1.27	22.1	310	17.5	11.0	<0.001	<0.01	0.62	4.2	0.3	0.5	18.0	<0.01	0.03	3.1
FGL077 11+00S		0.92	7.9	320	6.9	8.5	<0.001	0.01	0.32	2.1	0.2	0.4	18.4	<0.01	0.02	0.4
FGL077 12+00S		1.06	12.3	710	5.1	7.5	<0.001	<0.01	0.22	3.1	0.3	0.4	22.8	<0.01	0.02	1.3
FGL077 12+50S		0.60	11.7	740	4.2	6.6	<0.001	0.02	0.23	2.9	0.3	0.3	38.8	<0.01	0.02	0.6
FGL077 13+00S		0.54	9.5	670	2.8	3.8	<0.001	0.02	0.21	2.5	0.3	0.2	27.7	<0.01	0.02	0.6
FGL077 13+50S		1.08	15.0	810	5.9	5.7	<0.001	0.03	0.37	4.5	0.5	0.4	37.4	<0.01	0.02	1.6
FGL077 14+00S		0.63	7.8	890	4.3	3.1	<0.001	0.06	0.37	2.1	0.6	0.2	32.2	<0.01	0.03	0.4
FGL077 14+50S		0.83	13.7	980	7.8	5.5	<0.001	0.17	0.64	2.5	1.0	0.4	85.6	<0.01	0.03	0.2
FGL077 16+00S		1.01	10.3	760	6.5	6.9	<0.001	0.01	0.36	3.2	0.3	0.4	28.6	<0.01	0.02	2.2
FGL077 16+50S		0.74	10.4	1100	7.4	11.1	<0.001	0.02	0.28	3.9	0.2	0.5	37.8	<0.01	0.02	1.3
FGL077 17+00S		0.39	5.8	580	3.6	4.6	<0.001	0.02	0.24	1.5	0.5	0.2	22.4	<0.01	0.02	0.2
FGL077 17+50S		0.59	8.6	600	7.0	8.3	<0.001	0.01	0.71	2.5	0.2	0.4	21.2	<0.01	0.01	0.6
FGL077 18+00S		1.43	18.1	470	7.2	9.3	<0.001	0.01	0.40	3.9	0.4	0.5	16.8	<0.01	0.03	2.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL076 19+50N		0.051	0.05	0.43	50	0.14	5.86	44	0.8
FGL076 20+00N		0.076	0.07	0.40	54	0.16	2.88	40	0.8
FGL076 20+50N		0.064	0.06	0.70	60	0.22	3.99	49	0.6
FGL076 21+00N		0.045	0.04	1.31	48	0.11	6.37	34	0.5
FGL076 21+50N		0.023	0.04	2.19	25	0.09	8.25	32	1.4
FGL076 22+00N		0.060	0.06	0.99	54	0.17	7.10	46	1.2
FGL076 22+50N		0.041	0.04	2.97	43	0.39	6.37	40	1.1
FGL076 23+00N		0.027	0.04	3.02	32	0.09	11.55	33	0.8
FGL077 00+00		0.038	0.05	0.63	37	0.32	4.65	36	0.8
FGL077 00+50S		0.086	0.04	0.24	54	0.14	1.71	38	0.7
FGL077 01+00S		0.040	0.04	2.08	48	0.18	15.10	50	1.1
FGL077 02+00S		0.056	0.04	0.94	55	0.14	6.54	40	<0.5
FGL077 02+50S		0.066	0.05	0.41	56	0.16	3.31	50	1.4
FGL077 03+00S		0.075	0.07	0.33	60	0.36	2.45	35	0.5
FGL077 03+50S		0.090	0.08	0.55	69	0.17	4.84	56	1.5
FGL077 04+00S		0.037	0.05	1.35	54	0.14	12.20	49	0.5
FGL077 04+50S		0.057	0.05	0.32	43	0.14	1.68	30	<0.5
FGL077 05+00S		0.012	0.09	1.38	38	0.15	17.50	63	1.2
FGL077 05+50S		0.019	0.08	0.65	35	0.11	7.70	48	<0.5
FGL077 06+00S		0.054	0.10	1.61	50	0.17	13.25	44	1.2
FGL077 06+50S		0.081	0.06	0.49	62	0.15	3.22	58	0.8
FGL077 07+50S		0.058	0.06	0.39	44	0.13	5.03	36	<0.5
FGL077 08+00S		0.093	0.10	0.48	68	0.15	3.23	50	1.1
FGL077 08+50S		0.040	0.20	0.74	72	0.09	11.60	81	<0.5
FGL077 09+00S		0.086	0.07	0.35	72	0.18	2.31	33	0.7
FGL077 09+50S		0.063	0.09	0.46	57	0.18	6.48	48	0.7
FGL077 10+00S		0.071	0.07	0.31	50	0.17	2.10	33	0.6
FGL077 10+50S		0.088	0.09	0.45	66	0.18	4.00	63	4.6
FGL077 11+00S		0.068	0.07	0.39	53	0.18	4.22	28	<0.5
FGL077 12+00S		0.078	0.07	0.50	50	0.40	5.23	42	0.5
FGL077 12+50S		0.075	0.06	0.54	46	0.12	5.57	42	<0.5
FGL077 13+00S		0.064	0.04	0.38	37	0.09	4.73	33	0.5
FGL077 13+50S		0.093	0.07	0.79	58	0.21	7.24	51	1.0
FGL077 14+00S		0.057	0.06	0.83	52	0.13	5.24	32	0.7
FGL077 14+50S		0.045	0.12	1.20	61	0.18	12.00	91	0.5
FGL077 16+00S		0.065	0.08	0.54	45	0.21	4.02	64	1.0
FGL077 16+50S		0.058	0.09	0.28	69	0.13	3.51	109	0.8
FGL077 17+00S		0.033	0.07	0.30	27	0.25	4.61	38	<0.5
FGL077 17+50S		0.043	0.11	0.31	41	0.11	3.77	68	<0.5
FGL077 18+00S		0.076	0.10	0.58	57	0.27	3.69	58	1.0

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL077 18+50S		0.53	0.0010	0.03	1.50	10.0	<0.02	<10	120	0.24	0.12	0.14	0.07	14.70	6.0	22
FGL077 19+00S		0.88	0.0013	0.02	1.57	8.9	<0.02	<10	150	0.27	0.12	0.20	0.07	17.05	6.3	24
FGL077 19+50S		0.64	0.0006	0.02	1.60	8.0	<0.02	<10	260	0.34	0.10	0.19	0.03	17.40	6.6	24
FGL077 20+00S		0.76	0.0010	0.03	2.02	8.9	<0.02	<10	180	0.40	0.11	0.17	0.09	19.40	8.2	25
FGL077 20+50S		0.74	0.0020	0.03	2.16	10.0	<0.02	<10	270	0.61	0.12	0.20	0.08	21.7	9.2	28
FGL077 21+00S		0.81	0.0027	0.03	1.75	8.9	<0.02	<10	410	0.44	0.13	0.25	0.06	21.6	6.4	25
FGL077 21+50S		1.01	0.0009	0.01	1.52	7.8	<0.02	<10	350	0.42	0.09	0.26	0.07	20.3	6.6	22
FGL077 22+00S		0.76	0.0010	0.05	1.40	6.1	<0.02	<10	470	0.39	0.11	0.20	0.08	20.8	6.0	25
FGL077 22+50S		0.95	0.0007	0.05	1.73	6.1	<0.02	<10	550	0.61	0.07	0.51	0.08	27.4	6.9	21
FGL077 23+00S		0.40	0.0029	0.09	1.50	1.6	<0.02	<10	400	0.36	0.05	0.60	0.12	30.3	4.9	22
FGL078 00+00		0.51	0.0018	0.04	1.73	6.4	<0.02	<10	280	0.33	0.12	0.13	0.18	16.65	6.2	22
FGL078 00+50N		0.51	0.0013	0.02	1.24	6.3	<0.02	<10	400	0.30	0.10	0.16	0.08	22.5	6.1	21
FGL078 01+00N		0.53	0.0019	0.02	1.06	7.1	<0.02	<10	310	0.25	0.10	0.29	0.05	20.3	6.1	24
FGL078 01+50N		0.49	0.0021	0.02	1.29	5.4	<0.02	<10	390	0.33	0.08	0.39	0.05	19.85	7.1	19
FGL078 02+00N		0.44	0.0005	0.02	0.65	6.4	<0.02	<10	140	0.13	0.08	0.10	0.09	15.75	4.4	12
FGL078 03+00N		0.40	0.0007	0.02	1.60	8.2	<0.02	<10	130	0.28	0.12	0.13	0.10	16.20	7.2	22
FGL078 03+50N		0.44	0.0013	0.03	2.19	8.2	<0.02	<10	180	0.46	0.13	0.20	0.18	18.90	10.0	29
FGL078 04+00N		0.82	0.0034	0.03	1.53	11.1	<0.02	<10	250	0.26	0.15	0.19	0.05	19.10	4.9	25
FGL078 04+50N		0.38	0.0019	0.04	1.35	5.4	<0.02	<10	330	0.31	0.10	0.21	0.09	15.80	4.9	17
FGL078 05+00N		0.26	0.0017	0.16	1.38	2.9	<0.02	<10	560	0.38	0.06	0.46	0.05	15.65	5.1	11
FGL078 07+00N		0.94	0.0020	0.07	1.59	6.5	<0.02	<10	250	0.46	0.08	0.52	0.09	25.6	9.6	25
FGL078 07+50N		0.67	0.0013	0.23	1.56	3.8	<0.02	<10	270	0.35	0.09	0.40	0.07	20.4	6.7	24
FGL078 09+50N		0.67	0.0010	0.06	1.83	6.5	<0.02	<10	210	0.47	0.09	0.50	0.09	27.3	8.3	23
FGL078 10+00N		0.82	0.0015	0.06	2.13	8.6	<0.02	<10	240	0.56	0.11	0.65	0.08	35.0	10.1	28
FGL078 10+50N		0.96	0.0019	0.02	1.63	9.9	<0.02	<10	250	0.60	0.10	0.61	0.06	35.3	6.9	23
FGL078 11+00N		0.86	0.0013	0.02	2.19	14.1	<0.02	<10	290	0.46	0.17	0.58	0.04	25.2	11.1	20
FGL078 12+00N		0.95	0.0018	0.06	2.16	10.7	<0.02	<10	150	0.42	0.14	0.19	0.12	20.6	8.4	28
FGL078 12+50N		0.87	0.0009	0.03	1.99	10.5	<0.02	<10	180	0.61	0.10	0.19	0.08	26.0	8.4	26
FGL078 13+00N		0.89	0.0015	0.04	1.69	9.1	<0.02	<10	230	0.35	0.11	0.22	0.09	23.4	7.1	20
FGL078 13+50N		0.87	0.0012	0.02	1.69	7.1	<0.02	<10	240	0.69	0.09	0.27	0.04	37.6	6.7	24
FGL078 14+00N		0.72	0.0016	0.08	2.03	7.4	<0.02	<10	190	0.47	0.19	0.20	0.15	23.6	6.9	29
FGL078 14+50N		0.50	0.0009	0.02	1.98	9.9	<0.02	<10	110	0.31	0.16	0.16	0.08	17.85	5.5	25
FGL078 15+00N		0.62	0.0004	0.04	1.16	5.5	<0.02	<10	80	0.21	0.12	0.12	0.06	13.45	3.8	14
FGL078 15+50N		0.71	0.0018	0.05	1.79	6.8	<0.02	<10	140	0.28	0.12	0.34	0.06	20.3	6.8	22
FGL078 16+00N		0.91	0.0020	0.12	1.24	11.4	<0.02	<10	190	0.50	0.07	0.36	0.39	34.5	8.6	12
FGL078 16+50N		0.87	0.0010	0.04	2.69	7.5	<0.02	<10	190	0.72	0.11	0.48	0.07	28.1	10.2	21
FGL078 17+00N		1.15	0.0040	0.07	1.86	7.2	<0.02	<10	150	0.56	0.10	0.53	0.09	27.9	8.2	20
FGL078 18+50N		0.60	0.0003	0.04	1.26	3.0	<0.02	<10	60	0.31	0.08	0.35	0.04	10.10	4.5	7
FGL078 19+00N		0.75	0.0010	0.11	2.31	7.0	<0.02	<10	180	0.66	0.09	0.73	0.07	17.90	6.2	14
FGL078 19+50N		0.38	0.0013	0.21	2.13	5.3	<0.02	<10	350	0.77	0.08	1.13	0.19	28.3	5.5	12

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL077 18+50S		1.25	10.5	2.54	7.25	0.07	<0.02	0.01	0.017	0.06	7.2	9.8	0.37	253	0.95	0.01
FGL077 19+00S		1.00	12.1	2.29	6.74	0.08	0.02	0.01	0.019	0.06	8.6	10.3	0.41	233	0.79	0.01
FGL077 19+50S		0.93	11.0	1.97	4.95	0.06	<0.02	<0.01	0.021	0.06	8.9	9.6	0.40	191	0.51	0.01
FGL077 20+00S		1.29	12.5	2.44	6.54	0.08	0.02	0.01	0.022	0.08	9.2	12.5	0.42	281	0.66	<0.01
FGL077 20+50S		1.44	19.0	2.57	6.91	0.07	0.03	0.01	0.030	0.07	10.4	13.4	0.44	254	0.63	0.01
FGL077 21+00S		1.36	12.6	2.21	6.35	0.08	0.02	0.03	0.026	0.07	12.0	11.9	0.42	192	0.65	0.01
FGL077 21+50S		1.20	10.1	2.15	5.41	0.08	0.02	0.01	0.019	0.07	11.3	12.6	0.47	237	0.53	0.01
FGL077 22+00S		0.98	7.8	2.14	6.42	0.07	0.02	<0.01	0.020	0.08	11.4	11.1	0.43	305	0.50	0.01
FGL077 22+50S		1.70	14.0	2.28	6.45	0.09	0.02	0.01	0.024	0.10	14.3	12.0	0.52	453	0.41	0.01
FGL077 23+00S		0.80	10.0	1.29	5.95	0.09	0.02	0.05	0.021	0.06	18.3	9.0	0.42	191	0.14	0.01
FGL078 00+00		1.02	7.5	2.59	8.28	0.08	<0.02	0.01	0.021	0.07	8.7	14.0	0.40	318	0.76	<0.01
FGL078 00+50N		0.76	10.9	2.08	5.93	0.06	0.02	0.01	0.019	0.11	12.3	9.7	0.39	338	0.49	0.01
FGL078 01+00N		0.73	7.9	1.95	4.81	0.08	0.04	<0.01	0.015	0.09	10.5	11.8	0.46	263	0.51	0.01
FGL078 01+50N		0.72	8.4	2.17	5.66	0.08	0.02	0.01	0.020	0.11	10.5	10.1	0.54	415	0.35	0.01
FGL078 02+00N		0.59	5.1	1.56	5.12	0.06	<0.02	0.01	0.014	0.07	7.8	3.7	0.18	219	0.64	<0.01
FGL078 03+00N		0.92	13.0	2.22	6.55	0.08	0.02	<0.01	0.021	0.07	6.9	12.3	0.37	243	0.69	0.01
FGL078 03+50N		1.11	17.6	2.31	5.36	0.07	0.04	0.03	0.024	0.09	8.1	11.3	0.49	275	0.53	0.01
FGL078 04+00N		1.13	11.0	2.17	6.76	0.08	0.02	0.02	0.022	0.06	10.0	11.4	0.33	144	0.72	0.01
FGL078 04+50N		0.97	13.2	1.65	5.91	0.07	<0.02	0.01	0.015	0.08	8.6	7.1	0.30	238	0.62	0.01
FGL078 05+00N		0.81	10.4	1.26	4.65	0.08	<0.02	0.05	0.019	0.07	8.9	5.7	0.18	335	0.45	0.02
FGL078 07+00N		1.80	13.7	2.73	6.53	0.09	0.07	0.02	0.027	0.07	14.7	12.9	0.66	244	0.32	0.01
FGL078 07+50N		2.37	10.9	1.87	6.27	0.07	0.02	0.06	0.022	0.04	11.9	10.6	0.44	197	0.25	0.01
FGL078 09+50N		1.18	14.7	2.18	6.04	0.09	0.04	0.04	0.022	0.04	14.3	10.6	0.51	360	0.34	0.02
FGL078 10+00N		1.61	12.5	2.83	8.29	0.10	0.09	0.04	0.027	0.04	18.8	14.1	0.75	322	0.33	0.01
FGL078 10+50N		1.74	10.8	2.33	6.31	0.12	0.09	0.05	0.025	0.06	23.0	11.4	0.63	313	0.34	0.01
FGL078 11+00N		3.39	9.8	3.14	8.32	0.07	0.04	0.01	0.035	0.08	11.6	14.4	0.63	495	0.59	0.01
FGL078 12+00N		1.38	14.8	2.48	7.12	0.08	0.04	0.01	0.025	0.07	10.0	13.2	0.46	218	0.75	0.01
FGL078 12+50N		1.52	13.4	2.18	5.81	0.08	0.05	0.01	0.021	0.06	13.1	10.6	0.47	214	0.50	0.01
FGL078 13+00N		2.34	15.9	2.29	6.69	<0.05	<0.02	0.02	0.024	0.08	11.6	12.0	0.48	365	0.65	<0.01
FGL078 13+50N		2.99	9.5	2.10	5.81	0.07	0.04	0.01	0.018	0.04	29.0	11.6	0.46	258	0.46	0.01
FGL078 14+00N		1.56	13.6	2.44	8.10	0.06	0.02	0.02	0.025	0.06	11.5	11.4	0.40	555	0.86	0.01
FGL078 14+50N		1.51	20.4	2.82	8.63	0.05	<0.02	0.02	0.023	0.05	8.9	13.4	0.33	194	0.78	0.01
FGL078 15+00N		1.10	12.4	1.64	5.86	0.05	<0.02	0.01	0.015	0.04	6.6	7.6	0.21	143	0.57	0.01
FGL078 15+50N		2.33	10.4	2.52	8.26	0.06	<0.02	0.01	0.024	0.05	10.3	16.7	0.58	225	0.61	0.01
FGL078 16+00N		7.35	6.2	2.99	5.91	0.06	<0.02	0.04	0.037	0.06	13.4	6.9	0.28	1230	0.61	<0.01
FGL078 16+50N		6.94	10.6	2.98	8.96	0.09	0.07	0.01	0.032	0.05	13.2	20.9	0.78	529	0.38	0.02
FGL078 17+00N		4.14	11.8	2.55	5.66	0.10	0.05	0.02	0.025	0.07	13.9	11.9	0.69	497	0.57	0.03
FGL078 18+50N		1.31	7.7	1.70	4.99	0.07	0.02	0.02	0.010	0.03	4.4	4.5	0.19	209	0.28	0.02
FGL078 19+00N		2.69	12.4	1.82	7.04	0.06	<0.02	0.05	0.021	0.06	9.5	9.5	0.37	445	0.59	0.02
FGL078 19+50N		6.45	17.2	1.57	6.16	0.08	0.04	0.07	0.024	0.07	20.1	11.7	0.32	448	0.51	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL077 18+50S		1.20	11.2	380	6.1	7.7	<0.001	<0.01	0.39	2.3	0.3	0.5	14.0	<0.01	0.04	0.7
FGL077 19+00S		1.35	12.5	430	6.6	8.5	<0.001	<0.01	0.31	2.7	0.4	0.5	17.6	<0.01	0.03	1.3
FGL077 19+50S		0.98	14.7	370	6.0	6.3	<0.001	<0.01	0.33	2.6	0.4	0.4	17.6	<0.01	0.02	1.5
FGL077 20+00S		1.31	15.8	270	7.5	9.6	<0.001	<0.01	0.39	3.3	0.3	0.5	17.5	<0.01	0.02	2.0
FGL077 20+50S		1.33	18.2	330	7.3	8.8	<0.001	<0.01	0.38	3.9	0.3	0.5	22.5	<0.01	0.03	2.1
FGL077 21+00S		1.25	15.1	300	7.0	9.0	<0.001	<0.01	0.33	3.6	0.2	0.5	31.5	<0.01	0.02	2.2
FGL077 21+50S		0.87	15.0	330	5.9	7.2	<0.001	<0.01	0.36	3.3	0.4	0.4	27.9	<0.01	0.02	2.2
FGL077 22+00S		1.25	11.3	270	6.4	11.2	<0.001	<0.01	0.29	3.0	0.4	0.5	24.5	<0.01	0.03	1.6
FGL077 22+50S		0.88	11.9	680	5.4	9.9	<0.001	0.01	0.27	3.5	0.4	0.4	58.4	<0.01	0.02	1.6
FGL077 23+00S		0.75	9.3	1010	4.7	6.4	<0.001	0.03	0.18	4.5	0.7	0.4	60.2	<0.01	0.01	1.6
FGL078 00+00		1.43	10.7	300	6.9	8.9	<0.001	<0.01	0.31	2.9	0.3	0.6	14.6	<0.01	0.03	1.3
FGL078 00+50N		1.14	11.1	330	4.8	11.0	<0.001	<0.01	0.32	3.1	0.3	0.5	17.9	<0.01	0.02	1.7
FGL078 01+00N		1.20	12.6	210	5.9	9.4	<0.001	<0.01	0.26	3.0	0.2	0.5	29.3	<0.01	0.02	2.4
FGL078 01+50N		0.84	10.1	550	5.1	9.4	<0.001	<0.01	0.26	3.3	0.4	0.4	36.1	<0.01	0.01	1.8
FGL078 02+00N		0.98	6.2	220	4.8	10.2	<0.001	<0.01	0.38	1.7	0.2	0.4	14.0	<0.01	0.02	0.9
FGL078 03+00N		1.38	15.2	280	6.1	8.5	<0.001	<0.01	0.36	2.6	0.3	0.5	16.1	<0.01	0.02	1.6
FGL078 03+50N		1.34	23.2	320	5.9	9.6	<0.001	<0.01	0.42	3.9	0.4	0.5	20.5	<0.01	0.03	2.2
FGL078 04+00N		1.54	10.6	270	7.9	7.9	<0.001	<0.01	0.33	3.1	0.4	0.6	20.9	<0.01	0.02	2.1
FGL078 04+50N		0.79	8.8	380	4.8	12.7	<0.001	0.01	0.20	2.4	0.3	0.4	27.4	<0.01	0.02	0.5
FGL078 05+00N		0.49	6.0	530	3.2	8.1	<0.001	0.03	0.13	2.4	0.6	0.2	67.7	<0.01	0.02	0.3
FGL078 07+00N		1.12	13.8	890	6.2	9.0	<0.001	<0.01	0.46	4.7	0.7	0.5	34.1	<0.01	0.03	3.3
FGL078 07+50N		0.84	10.3	750	15.6	6.0	<0.001	0.02	0.56	3.9	0.4	0.4	30.2	<0.01	0.01	1.5
FGL078 09+50N		0.99	12.5	800	5.5	4.7	<0.001	0.01	0.40	4.7	0.4	0.4	33.0	<0.01	0.02	2.3
FGL078 10+00N		1.13	15.1	1020	6.8	6.3	<0.001	0.01	0.46	6.2	0.8	0.5	37.6	<0.01	0.03	3.6
FGL078 10+50N		0.88	12.4	970	4.9	7.1	<0.001	<0.01	0.50	5.5	0.5	0.5	36.8	<0.01	0.03	3.6
FGL078 11+00N		0.69	12.4	1050	6.2	9.5	<0.001	<0.01	0.47	5.8	0.4	0.6	36.0	<0.01	0.01	2.7
FGL078 12+00N		1.53	16.5	340	8.0	9.9	<0.001	<0.01	0.39	3.8	0.6	0.6	19.7	0.01	0.03	2.6
FGL078 12+50N		0.99	19.9	280	9.4	7.8	<0.001	<0.01	0.39	4.1	0.5	0.4	17.8	<0.01	0.02	2.8
FGL078 13+00N		0.98	12.8	400	5.9	10.3	<0.001	<0.01	0.47	3.2	0.2	0.5	19.4	<0.01	0.02	1.6
FGL078 13+50N		0.77	15.1	220	6.9	6.3	<0.001	<0.01	0.40	3.9	0.7	0.5	17.9	<0.01	0.02	3.3
FGL078 14+00N		1.65	12.1	360	9.5	11.0	<0.001	<0.01	0.38	4.0	0.4	0.7	20.2	<0.01	0.01	2.4
FGL078 14+50N		1.69	11.5	380	7.9	7.1	<0.001	<0.01	0.40	2.8	0.4	0.6	18.0	0.01	0.02	1.4
FGL078 15+00N		1.05	6.9	260	7.1	5.7	<0.001	<0.01	0.29	1.6	0.2	0.5	13.8	<0.01	0.02	0.6
FGL078 15+50N		1.22	10.8	760	8.5	8.2	<0.001	<0.01	0.22	3.3	0.3	0.6	20.7	<0.01	0.01	1.9
FGL078 16+00N		0.35	6.6	1130	24.5	8.9	<0.001	0.01	1.83	4.0	0.4	0.5	17.4	<0.01	0.01	2.8
FGL078 16+50N		0.88	13.8	770	8.4	6.9	<0.001	0.01	0.35	6.0	0.6	0.6	54.1	<0.01	0.01	2.8
FGL078 17+00N		0.96	12.2	710	6.7	7.6	<0.001	0.02	0.36	5.8	0.6	0.6	65.6	<0.01	0.01	2.6
FGL078 18+50N		0.44	4.4	560	2.6	3.0	<0.001	0.01	0.12	1.4	0.2	0.2	36.7	0.01	0.01	0.2
FGL078 19+00N		0.64	9.2	750	5.5	7.2	<0.001	0.02	0.20	2.6	0.4	0.4	71.9	0.01	0.01	0.3
FGL078 19+50N		0.65	9.0	920	7.7	13.1	<0.001	0.07	0.35	2.7	1.0	0.3	106.5	<0.01	0.01	0.4

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL077 18+50S		0.076	0.08	0.30	66	0.24	2.19	48	<0.5
FGL077 19+00S		0.083	0.08	0.38	61	0.18	2.83	48	0.6
FGL077 19+50S		0.049	0.07	0.36	45	0.22	2.75	42	<0.5
FGL077 20+00S		0.067	0.08	0.33	55	0.16	2.78	56	0.9
FGL077 20+50S		0.063	0.09	0.40	57	0.15	3.75	52	1.0
FGL077 21+00S		0.066	0.10	0.42	52	0.19	4.82	47	1.0
FGL077 21+50S		0.056	0.07	0.34	46	0.11	3.94	53	1.0
FGL077 22+00S		0.077	0.07	0.32	56	0.14	3.17	58	0.6
FGL077 22+50S		0.066	0.07	0.43	51	0.14	5.43	69	0.6
FGL077 23+00S		0.061	0.06	0.89	35	0.24	8.84	60	0.7
FGL078 00+00		0.054	0.08	0.26	62	0.15	2.76	59	0.5
FGL078 00+50N		0.072	0.07	0.35	49	0.13	4.85	62	1.0
FGL078 01+00N		0.092	0.07	0.38	47	0.26	3.55	48	1.3
FGL078 01+50N		0.086	0.06	0.30	48	0.09	4.30	73	0.8
FGL078 02+00N		0.058	0.06	0.21	45	0.18	1.95	45	<0.5
FGL078 03+00N		0.094	0.08	0.32	57	0.15	2.12	57	0.9
FGL078 03+50N		0.076	0.09	0.41	50	0.14	3.10	52	1.6
FGL078 04+00N		0.071	0.11	0.44	54	0.24	3.32	36	0.8
FGL078 04+50N		0.053	0.07	0.40	43	0.45	3.46	44	<0.5
FGL078 05+00N		0.022	0.07	0.45	27	0.09	6.00	29	<0.5
FGL078 07+00N		0.081	0.09	0.74	58	0.15	6.04	67	2.4
FGL078 07+50N		0.044	0.12	0.56	47	0.10	5.35	56	0.8
FGL078 09+50N		0.093	0.07	0.77	57	0.15	6.80	45	1.5
FGL078 10+00N		0.127	0.07	0.77	71	0.17	8.31	62	3.0
FGL078 10+50N		0.089	0.07	0.74	53	0.16	11.75	57	3.2
FGL078 11+00N		0.042	0.10	0.66	64	0.13	5.31	65	1.4
FGL078 12+00N		0.091	0.10	0.43	61	0.21	3.01	44	1.6
FGL078 12+50N		0.067	0.09	0.46	52	0.29	4.17	44	1.9
FGL078 13+00N		0.043	0.08	0.36	53	0.24	3.59	46	0.5
FGL078 13+50N		0.047	0.11	0.51	50	0.15	10.05	42	1.3
FGL078 14+00N		0.098	0.12	0.60	66	0.22	3.68	49	1.1
FGL078 14+50N		0.086	0.09	0.40	71	0.23	2.63	37	0.7
FGL078 15+00N		0.070	0.07	0.27	48	0.12	1.84	23	<0.5
FGL078 15+50N		0.085	0.10	0.42	67	0.29	3.76	48	0.6
FGL078 16+00N		0.014	0.26	0.54	53	0.10	4.72	135	<0.5
FGL078 16+50N		0.060	0.10	0.81	67	0.15	8.49	60	2.0
FGL078 17+00N		0.096	0.08	1.19	65	0.15	14.80	55	2.0
FGL078 18+50N		0.074	0.03	0.32	52	0.09	2.22	29	0.5
FGL078 19+00N		0.049	0.06	0.77	47	0.13	6.52	44	<0.5
FGL078 19+50N		0.022	0.10	2.59	34	0.16	16.95	69	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL078 20+00N		0.66	0.0060	0.02	2.00	13.6	<0.02	<10	140	0.32	0.10	0.45	0.09	13.85	6.5	14
FGL078 20+50N		0.65	0.0031	0.05	1.98	12.5	<0.02	<10	140	0.39	0.14	0.19	0.10	19.90	6.8	20
FGL078 21+00N		0.66	0.0008	0.02	1.73	21.2	<0.02	<10	100	0.34	0.13	0.24	0.05	17.05	5.6	20
FGL078 21+50N		0.61	0.0012	0.08	1.44	13.4	0.04	<10	140	0.46	0.07	0.85	0.06	21.6	6.1	14
FGL078 22+00N		0.60	0.0020	0.08	1.33	10.5	<0.02	<10	140	0.43	0.07	1.33	0.14	16.60	5.7	12
FGL078 22+50N		0.86	0.0009	0.02	3.03	16.8	<0.02	<10	160	0.66	0.12	0.30	0.08	17.45	11.3	44
FGL078 23+00N		0.95	0.0031	0.03	1.98	9.4	<0.02	<10	140	0.46	0.13	0.33	0.05	22.2	7.7	31

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL078 20+00N		0.92	9.6	2.28	8.10	0.05	0.02	0.03	0.019	0.06	6.8	14.7	0.41	292	0.56	0.01
FGL078 20+50N		1.23	14.0	2.44	7.75	0.07	0.03	0.02	0.019	0.06	9.8	12.5	0.41	295	0.82	0.01
FGL078 21+00N		1.01	9.3	2.28	8.06	0.06	0.06	0.01	0.018	0.05	8.9	14.6	0.38	203	0.65	0.01
FGL078 21+50N		1.20	11.1	1.74	6.88	0.08	0.03	0.07	0.018	0.04	10.7	9.2	0.42	333	0.27	0.02
FGL078 22+00N		1.30	11.5	1.39	5.09	0.08	0.04	0.06	0.016	0.04	10.1	8.6	0.37	476	0.30	0.02
FGL078 22+50N		1.53	17.6	3.22	10.45	0.07	0.07	0.02	0.033	0.07	8.6	20.2	0.87	404	0.60	0.01
FGL078 23+00N		1.23	11.4	2.38	7.98	0.06	0.04	0.01	0.022	0.05	11.5	13.2	0.54	251	0.61	0.01

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL078 20+00N		1.34	8.7	330	6.6	9.4	<0.001	<0.01	0.28	2.7	0.2	0.5	44.5	0.01	0.03	1.4
FGL078 20+50N		1.20	12.8	240	7.4	8.8	<0.001	<0.01	0.35	3.3	0.3	0.6	21.1	<0.01	0.02	2.0
FGL078 21+00N		1.54	11.2	250	6.6	8.3	<0.001	<0.01	0.29	2.9	0.2	0.6	20.8	<0.01	0.03	2.1
FGL078 21+50N		0.78	7.9	820	5.7	4.8	<0.001	0.03	0.32	3.1	0.5	0.3	72.0	<0.01	0.01	0.9
FGL078 22+00N		0.62	7.0	720	5.1	6.1	<0.001	0.06	0.33	2.3	0.5	0.3	104.5	<0.01	0.02	0.5
FGL078 22+50N		1.37	22.1	230	8.9	8.6	<0.001	0.01	0.44	4.5	0.2	0.6	30.0	<0.01	0.01	3.2
FGL078 23+00N		1.26	15.1	440	7.2	8.1	<0.001	<0.01	0.29	3.9	0.2	0.6	23.2	<0.01	0.03	2.7

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CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL078 20+00N		0.050	0.06	0.53	55	0.21	2.70	41	0.8
FGL078 20+50N		0.066	0.07	0.45	59	0.17	3.22	45	1.3
FGL078 21+00N		0.088	0.08	0.47	66	0.18	3.15	38	2.4
FGL078 21+50N		0.046	0.06	2.86	42	0.13	7.23	44	1.0
FGL078 22+00N		0.032	0.05	2.96	33	0.11	7.88	43	1.2
FGL078 22+50N		0.112	0.08	0.48	73	0.24	3.54	65	2.3
FGL078 23+00N		0.085	0.09	0.50	62	0.53	4.11	43	1.6

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: ME- MS41
Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
Applies to Method: LOG- 22 SCR- 41 WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Applies to Method: Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

CERTIFICATE WH17164289

Project: Freegold Mtn - Tinta Property
P.O. No.: 1005139- NOFREG- R1
This report is for 153 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.
The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL079 00+00		0.51	0.0003	0.02	2.17	17.8	<0.02	<10	260	0.43	0.09	0.32	0.09	20.2	10.0	22
FGL079 00+50N		0.39	0.0007	0.08	0.88	2.0	<0.02	<10	210	0.29	0.04	0.22	0.03	12.50	3.5	8
FGL079 01+00N		0.49	0.0006	0.02	1.02	3.8	<0.02	<10	110	0.18	0.08	0.18	0.05	10.65	5.6	13
FGL079 01+50N		0.59	0.0011	0.05	1.43	5.5	<0.02	<10	170	0.23	0.08	0.22	0.05	14.30	7.0	16
FGL079 02+00N		0.65	0.0013	0.11	1.61	3.0	<0.02	<10	550	0.60	0.06	0.56	0.05	23.1	8.1	20
FGL079 02+50N		0.42	0.0007	0.12	1.31	4.9	<0.02	<10	450	0.34	0.06	0.57	0.11	16.40	7.1	17
FGL079 03+00N		0.45	0.0009	0.09	1.62	5.0	<0.02	<10	440	0.44	0.05	0.89	0.08	21.2	8.7	23
FGL079 03+50N		0.40	0.0005	0.05	1.20	3.9	<0.02	<10	290	0.35	0.06	0.48	0.04	19.20	6.1	14
FGL079 04+00N		0.54	0.0011	0.09	1.96	7.7	<0.02	<10	390	0.55	0.10	0.54	0.11	30.4	7.0	27
FGL079 04+50N		0.54	0.0008	0.07	1.11	2.8	<0.02	<10	230	0.26	0.07	0.30	0.06	18.05	4.1	15
FGL079 05+00N		0.40	0.0008	0.12	1.38	4.7	<0.02	<10	360	0.34	0.07	0.47	0.07	19.55	5.4	16
FGL079 05+50N		0.42	0.0006	0.07	1.22	3.0	<0.02	<10	170	0.25	0.06	0.44	0.04	14.05	4.7	14
FGL079 06+00N		0.42	0.0010	0.13	1.72	15.2	<0.02	<10	230	0.41	0.08	0.52	0.08	28.8	7.7	23
FGL079 07+00N		0.76	0.0022	0.09	1.54	5.4	<0.02	<10	190	0.46	0.08	0.44	0.08	24.9	7.1	24
FGL079 07+50N		0.64	0.0022	0.10	2.24	9.3	<0.02	<10	270	0.74	0.10	0.60	0.04	39.3	9.8	29
FGL079 08+00N		0.65	0.0007	0.10	1.83	6.2	<0.02	<10	200	0.45	0.08	0.53	0.04	22.2	9.1	20
FGL079 08+50N		0.47	0.0047	0.08	1.78	8.1	<0.02	<10	290	0.51	0.10	0.50	0.04	25.4	7.1	27
FGL079 09+00N		0.39	0.0012	0.15	1.62	5.7	<0.02	<10	450	0.48	0.09	0.79	0.03	23.2	7.5	20
FGL079 09+50N		0.44	0.0006	0.09	0.99	3.0	<0.02	<10	310	0.32	0.03	0.45	0.02	15.35	4.2	7
FGL079 10+00N		0.54	0.0011	0.03	1.33	4.8	<0.02	<10	180	0.36	0.07	0.22	0.05	18.55	5.3	15
FGL079 10+50N		0.47	0.0002	0.06	0.78	2.7	<0.02	<10	100	0.17	0.06	0.17	0.02	9.16	3.0	9
FGL079 11+00N		0.66	0.0005	0.04	2.10	9.8	<0.02	<10	230	0.41	0.16	0.21	0.06	21.4	8.1	30
FGL079 11+50N		0.70	0.0048	0.03	1.83	8.4	<0.02	<10	250	0.45	0.09	0.25	0.06	32.4	7.8	19
FGL079 12+00N		0.63	0.0003	0.02	1.93	10.2	<0.02	<10	280	0.61	0.11	0.22	0.13	28.9	7.3	19
FGL079 12+50N		0.48	0.0005	0.09	1.00	18.8	<0.02	<10	160	0.44	0.06	0.17	0.04	22.4	3.7	10
FGL079 13+00N		0.53	0.0012	0.13	1.67	9.8	<0.02	<10	170	0.40	0.16	0.15	0.20	21.4	5.6	23
FGL079 13+50N		0.59	0.0011	0.15	1.40	6.2	<0.02	<10	100	0.32	0.11	0.15	0.10	12.20	4.1	14
FGL079 14+00N		0.56	0.0022	0.19	2.93	8.8	<0.02	<10	310	0.51	0.11	0.37	0.11	22.9	8.6	24
FGL079 14+50N		0.43	0.0001	0.09	0.67	1.4	<0.02	<10	80	0.13	0.05	0.20	0.04	7.32	2.5	6
FGL079 15+00N		0.52	0.0008	0.07	1.62	5.9	<0.02	<10	140	0.33	0.09	0.26	0.07	15.75	5.7	16
FGL079 15+50N		0.47	0.0011	0.09	2.31	7.1	<0.02	<10	190	0.49	0.12	0.33	0.07	23.1	7.9	21
FGL079 16+00N		0.58	0.0011	0.05	1.58	5.1	<0.02	<10	130	0.37	0.07	0.41	0.07	19.75	6.4	17
FGL079 16+50N		0.46	0.0005	0.09	1.11	2.9	<0.02	<10	100	0.24	0.07	0.36	0.09	9.80	4.0	11
FGL079 17+00N		0.65	0.0027	0.20	2.87	15.3	<0.02	<10	210	0.75	0.12	1.48	0.20	21.3	10.3	10
FGL079 17+50N		0.57	0.0017	0.05	1.39	8.6	<0.02	<10	130	0.41	0.10	0.50	0.09	26.3	6.7	19
FGL079 18+00N		0.55	0.0007	0.08	1.36	8.9	<0.02	<10	170	0.65	0.05	0.86	0.08	36.6	7.2	11
FGL079 18+50N		0.62	0.0010	0.06	1.28	6.6	<0.02	<10	180	0.32	0.09	0.68	0.06	22.9	6.3	17
FGL079 19+00N		0.64	0.0009	0.04	1.39	7.3	<0.02	<10	170	0.39	0.09	0.74	0.07	22.3	7.7	18
FGL079 19+50N		0.50	0.0019	0.05	2.07	8.7	<0.02	<10	150	0.64	0.07	0.69	0.06	28.8	8.0	25
FGL079 00+50S		0.36	0.0006	0.02	0.81	5.3	<0.02	<10	240	0.22	0.05	0.24	0.07	20.5	4.8	10

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL079 00+00		0.96	11.3	3.36	11.10	0.06	0.02	0.05	0.030	0.14	9.7	17.1	0.67	385	0.73	0.01
FGL079 00+50N		0.46	6.3	1.04	4.19	0.06	<0.02	0.02	0.008	0.06	6.8	3.7	0.15	165	0.30	0.02
FGL079 01+00N		0.69	7.1	1.65	6.76	0.05	<0.02	0.02	0.012	0.09	5.5	5.1	0.33	287	0.46	0.01
FGL079 01+50N		0.67	7.2	2.46	8.35	0.05	<0.02	0.01	0.018	0.08	7.2	7.7	0.51	258	0.68	0.01
FGL079 02+00N		1.83	15.4	2.00	6.23	0.08	0.03	0.05	0.019	0.06	15.1	10.0	0.48	318	0.40	0.02
FGL079 02+50N		4.33	10.8	2.24	5.22	0.07	0.04	0.04	0.019	0.04	10.5	7.8	0.32	393	0.36	0.01
FGL079 03+00N		3.05	14.5	2.44	7.01	0.06	0.03	0.05	0.020	0.04	13.4	10.6	0.54	336	0.31	0.01
FGL079 03+50N		2.64	10.3	1.56	5.10	0.06	0.02	0.04	0.014	0.04	10.5	7.7	0.32	412	0.36	0.02
FGL079 04+00N		3.24	15.0	2.42	7.96	0.07	0.03	0.06	0.026	0.06	15.2	15.0	0.57	407	0.37	<0.01
FGL079 04+50N		1.38	10.9	1.34	4.44	0.05	0.02	0.05	0.015	0.04	10.5	7.6	0.26	142	0.22	0.01
FGL079 05+00N		3.91	9.6	1.74	5.79	0.07	0.02	0.15	0.016	0.05	12.4	9.0	0.39	305	0.33	0.01
FGL079 05+50N		1.74	7.7	1.64	5.20	0.06	<0.02	0.04	0.012	0.04	8.0	7.2	0.34	202	0.25	0.02
FGL079 06+00N		1.85	11.8	3.21	6.62	0.07	0.03	0.09	0.022	0.04	15.7	11.1	0.45	319	0.33	0.01
FGL079 07+00N		1.58	16.6	2.18	6.18	0.07	0.03	0.04	0.018	0.04	13.8	9.8	0.42	328	0.79	0.02
FGL079 07+50N		2.34	16.3	2.90	8.74	0.08	0.03	0.04	0.028	0.06	21.6	15.6	0.67	332	0.52	0.01
FGL079 08+00N		2.15	11.8	2.37	7.62	0.06	<0.02	0.02	0.023	0.06	11.6	12.6	0.59	462	0.47	0.02
FGL079 08+50N		2.02	17.2	2.24	6.26	0.06	0.03	0.02	0.023	0.06	12.4	13.6	0.54	312	0.48	0.01
FGL079 09+00N		1.74	18.1	2.30	5.56	0.05	0.05	0.07	0.019	0.04	13.4	9.2	0.46	405	0.52	0.02
FGL079 09+50N		1.37	8.9	1.35	3.57	0.06	<0.02	0.03	0.011	0.04	9.4	4.1	0.15	307	0.29	0.03
FGL079 10+00N		1.53	9.0	1.53	4.81	0.06	<0.02	0.01	0.015	0.05	9.6	8.6	0.34	225	0.40	0.02
FGL079 10+50N		0.77	10.7	1.08	3.50	0.05	<0.02	0.01	0.009	0.04	4.6	3.7	0.12	83	0.29	0.02
FGL079 11+00N		1.35	14.5	2.58	7.27	0.06	0.05	0.01	0.023	0.10	10.9	14.7	0.51	314	0.86	0.01
FGL079 11+50N		1.28	11.0	2.16	5.54	0.07	0.03	0.02	0.022	0.10	16.2	11.1	0.46	378	0.53	0.01
FGL079 12+00N		2.29	16.8	2.12	6.85	0.06	<0.02	0.01	0.023	0.07	15.6	11.5	0.46	426	0.47	0.01
FGL079 12+50N		3.16	7.2	1.20	3.41	0.06	<0.02	0.09	0.011	0.05	14.4	4.1	0.13	176	0.35	0.02
FGL079 13+00N		1.99	16.1	2.47	6.85	0.06	0.02	0.02	0.022	0.05	10.4	12.2	0.28	191	0.79	0.01
FGL079 13+50N		1.23	9.7	1.71	5.89	0.06	<0.02	0.03	0.017	0.04	5.9	8.2	0.18	198	0.68	0.02
FGL079 14+00N		3.22	16.8	2.89	7.49	0.08	0.04	0.02	0.028	0.05	11.0	13.9	0.54	492	0.71	0.02
FGL079 14+50N		0.96	10.0	0.84	2.64	<0.05	<0.02	0.02	0.006	0.03	3.5	2.5	0.08	110	0.24	0.04
FGL079 15+00N		1.41	14.1	1.66	4.80	0.06	<0.02	0.02	0.017	0.04	7.8	9.2	0.32	219	0.49	0.02
FGL079 15+50N		1.48	14.0	2.40	6.71	0.07	0.03	0.02	0.023	0.06	11.5	11.1	0.45	323	0.63	0.02
FGL079 16+00N		0.85	12.7	1.86	4.71	0.07	<0.02	0.02	0.015	0.04	9.7	8.1	0.39	262	0.39	0.02
FGL079 16+50N		0.82	9.7	1.16	4.06	<0.05	<0.02	0.03	0.012	0.03	4.7	5.5	0.22	157	0.47	0.03
FGL079 17+00N		1.22	10.3	3.16	11.70	0.08	0.03	0.19	0.041	0.05	9.9	16.5	0.83	715	1.12	0.01
FGL079 17+50N		1.04	12.3	1.94	4.71	0.10	0.04	0.01	0.019	0.06	13.9	10.0	0.48	293	0.34	0.02
FGL079 18+00N		1.58	13.9	2.13	5.96	0.09	0.05	0.02	0.025	0.04	17.2	8.7	0.48	432	0.31	0.02
FGL079 18+50N		0.87	10.7	1.78	4.69	0.07	0.03	0.03	0.017	0.05	11.8	10.3	0.44	319	0.30	0.02
FGL079 19+00N		0.82	9.8	2.04	5.50	0.07	0.04	0.03	0.020	0.05	11.8	11.1	0.55	502	0.35	0.02
FGL079 19+50N		0.86	9.5	2.46	6.22	0.08	0.02	0.04	0.020	0.05	15.3	12.3	0.62	466	0.56	0.01
FGL079 00+50S		0.63	5.6	1.94	6.28	0.05	<0.02	0.01	0.024	0.08	10.7	3.2	0.21	193	0.59	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL079 00+00		0.94	12.6	710	6.8	14.4	<0.001	<0.01	0.44	4.2	0.4	0.6	25.3	<0.01	0.01	1.7
FGL079 00+50N		0.34	4.1	360	2.4	8.2	<0.001	<0.01	0.08	1.3	0.2	0.2	18.8	<0.01	0.01	<0.2
FGL079 01+00N		0.81	6.5	290	3.7	17.2	<0.001	<0.01	0.17	1.8	0.2	0.4	15.8	<0.01	0.01	0.4
FGL079 01+50N		0.97	7.9	350	4.8	12.1	<0.001	<0.01	0.28	2.9	<0.2	0.5	18.3	<0.01	0.02	1.0
FGL079 02+00N		0.60	10.6	950	3.7	7.2	<0.001	0.02	0.16	4.5	0.9	0.3	39.9	<0.01	0.01	0.9
FGL079 02+50N		0.57	8.3	750	8.1	8.4	<0.001	0.03	0.45	3.0	0.3	0.3	56.8	<0.01	0.01	1.0
FGL079 03+00N		0.64	10.2	950	7.5	6.0	<0.001	0.03	0.33	4.5	0.5	0.3	82.4	<0.01	0.02	1.0
FGL079 03+50N		0.58	7.5	630	3.8	8.2	<0.001	0.03	0.22	2.3	0.3	0.3	50.1	<0.01	0.02	0.5
FGL079 04+00N		0.91	12.8	920	6.9	11.0	<0.001	0.03	0.33	4.9	0.6	0.5	51.4	<0.01	0.02	1.4
FGL079 04+50N		0.66	7.6	610	4.8	5.7	<0.001	0.01	0.27	2.4	0.2	0.3	26.5	<0.01	0.02	1.0
FGL079 05+00N		0.68	8.3	760	7.9	11.5	<0.001	0.03	0.31	3.1	0.4	0.3	44.1	<0.01	0.02	0.8
FGL079 05+50N		0.64	7.2	610	5.7	5.8	<0.001	0.02	0.31	2.3	0.3	0.3	42.5	<0.01	0.01	0.5
FGL079 06+00N		1.05	11.0	1030	8.4	6.3	<0.001	0.04	0.46	4.0	0.9	0.4	36.7	<0.01	0.01	1.4
FGL079 07+00N		0.81	14.9	770	4.6	6.0	<0.001	0.01	0.44	4.1	0.5	0.4	33.8	<0.01	0.02	1.4
FGL079 07+50N		1.06	16.5	840	7.3	9.2	<0.001	<0.01	0.51	6.7	0.6	0.5	47.3	<0.01	0.03	3.0
FGL079 08+00N		0.85	11.9	600	5.5	10.8	<0.001	<0.01	0.40	3.8	0.4	0.4	48.7	<0.01	0.03	1.3
FGL079 08+50N		1.05	16.4	570	6.6	7.7	<0.001	<0.01	0.36	4.1	0.5	0.4	49.6	<0.01	0.02	1.9
FGL079 09+00N		0.73	10.9	950	5.2	4.5	<0.001	0.05	0.36	3.4	0.7	0.3	81.7	<0.01	0.02	0.9
FGL079 09+50N		0.33	4.8	530	2.2	3.6	<0.001	0.02	0.23	1.9	0.7	0.2	38.8	<0.01	0.02	0.3
FGL079 10+00N		0.81	9.5	270	4.8	6.7	<0.001	<0.01	0.29	2.5	0.3	0.3	20.1	0.01	0.01	1.5
FGL079 10+50N		0.53	4.6	300	2.9	5.0	<0.001	<0.01	0.12	1.2	0.2	0.2	15.4	<0.01	<0.01	0.4
FGL079 11+00N		1.49	16.9	230	8.6	12.3	<0.001	<0.01	0.35	3.6	0.3	0.7	19.5	<0.01	0.02	2.9
FGL079 11+50N		0.83	13.8	270	7.6	8.1	<0.001	<0.01	0.45	2.8	0.2	0.4	21.9	<0.01	0.02	3.2
FGL079 12+00N		0.90	11.9	280	8.7	9.1	<0.001	<0.01	0.43	2.9	0.3	0.5	22.3	<0.01	<0.01	3.0
FGL079 12+50N		0.40	5.4	360	3.7	4.9	<0.001	<0.01	0.21	1.5	0.3	0.2	14.2	<0.01	0.01	0.5
FGL079 13+00N		1.48	10.7	300	12.1	10.1	<0.001	<0.01	0.40	2.5	0.3	0.6	16.0	<0.01	0.01	1.7
FGL079 13+50N		0.83	6.6	340	6.9	7.0	<0.001	<0.01	0.23	1.6	0.3	0.4	17.8	<0.01	0.02	0.3
FGL079 14+00N		1.28	15.3	430	16.0	8.5	<0.001	<0.01	0.42	5.2	0.3	0.7	45.7	<0.01	0.01	2.2
FGL079 14+50N		0.26	3.3	300	2.0	3.6	<0.001	<0.01	0.10	0.8	0.2	0.2	28.1	<0.01	0.01	<0.2
FGL079 15+00N		0.84	10.1	380	5.1	5.9	<0.001	<0.01	0.24	2.3	0.5	0.4	30.3	<0.01	0.01	0.6
FGL079 15+50N		1.22	12.6	420	6.9	6.8	<0.001	<0.01	0.26	4.1	0.4	0.6	42.1	<0.01	0.01	2.0
FGL079 16+00N		0.71	11.1	530	4.8	5.2	<0.001	<0.01	0.25	3.1	0.3	0.4	38.2	<0.01	0.02	0.7
FGL079 16+50N		0.44	6.2	490	3.4	4.6	<0.001	0.02	0.17	1.1	<0.2	0.3	42.8	<0.01	0.01	<0.2
FGL079 17+00N		0.43	7.1	1810	31.1	6.3	<0.001	0.01	0.30	6.7	0.5	0.5	87.8	<0.01	0.05	1.3
FGL079 17+50N		1.09	13.7	950	6.8	7.2	<0.001	<0.01	0.32	3.3	0.5	0.5	28.5	<0.01	0.01	3.0
FGL079 18+00N		0.53	7.9	1000	4.4	3.9	<0.001	0.02	0.23	5.1	0.8	0.3	49.3	<0.01	0.01	1.6
FGL079 18+50N		0.90	10.9	840	5.2	6.0	<0.001	0.01	0.23	3.3	0.3	0.4	37.1	<0.01	0.01	1.8
FGL079 19+00N		0.93	10.8	1010	5.6	6.4	<0.001	0.02	0.28	3.4	0.5	0.4	41.1	<0.01	0.01	1.8
FGL079 19+50N		0.84	12.1	880	5.7	6.3	<0.001	0.01	0.22	4.0	0.4	0.4	57.3	0.01	0.02	1.9
FGL079 00+50S		0.53	5.5	320	4.5	15.6	<0.001	<0.01	0.17	2.7	0.3	0.4	22.8	<0.01	0.02	1.2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL079 00+00		0.071	0.09	0.26	74	0.13	3.22	87	0.9
FGL079 00+50N		0.034	0.05	0.25	28	0.07	3.59	26	<0.5
FGL079 01+00N		0.094	0.07	0.24	50	0.09	1.85	40	<0.5
FGL079 01+50N		0.098	0.07	0.24	74	0.20	2.48	53	0.5
FGL079 02+00N		0.061	0.06	0.59	52	0.10	10.05	46	0.9
FGL079 02+50N		0.021	0.14	0.43	38	0.08	6.09	49	1.2
FGL079 03+00N		0.067	0.08	0.98	67	0.11	9.48	55	1.1
FGL079 03+50N		0.036	0.07	0.67	34	0.24	5.50	41	0.7
FGL079 04+00N		0.041	0.12	0.98	57	0.11	6.94	68	1.0
FGL079 04+50N		0.032	0.08	0.72	30	0.38	5.14	35	0.6
FGL079 05+00N		0.033	0.09	0.51	39	0.10	7.16	53	0.6
FGL079 05+50N		0.061	0.07	0.42	37	0.11	3.81	46	0.5
FGL079 06+00N		0.081	0.11	0.87	77	0.16	6.38	57	1.0
FGL079 07+00N		0.075	0.08	0.74	52	0.14	7.70	48	0.9
FGL079 07+50N		0.088	0.09	0.83	68	0.15	11.30	59	1.0
FGL079 08+00N		0.083	0.09	0.47	56	0.12	4.63	58	0.5
FGL079 08+50N		0.061	0.11	0.70	52	0.13	5.21	53	1.0
FGL079 09+00N		0.049	0.07	0.93	57	0.84	10.25	41	1.6
FGL079 09+50N		0.036	0.04	0.39	34	0.07	8.26	23	<0.5
FGL079 10+00N		0.045	0.07	0.33	36	0.11	3.22	34	<0.5
FGL079 10+50N		0.047	0.04	0.21	34	0.08	1.67	20	<0.5
FGL079 11+00N		0.097	0.11	0.46	65	0.17	3.31	48	1.9
FGL079 11+50N		0.040	0.07	0.38	43	0.15	3.60	50	1.1
FGL079 12+00N		0.040	0.08	0.38	48	0.15	3.30	57	0.6
FGL079 12+50N		0.029	0.08	0.38	31	0.08	4.72	29	<0.5
FGL079 13+00N		0.083	0.10	0.47	60	0.17	3.15	49	0.7
FGL079 13+50N		0.063	0.06	0.34	50	0.13	2.37	33	<0.5
FGL079 14+00N		0.096	0.11	0.66	73	0.13	5.48	68	1.3
FGL079 14+50N		0.041	0.04	0.30	27	0.06	2.07	20	<0.5
FGL079 15+00N		0.060	0.07	0.59	44	0.12	3.75	36	<0.5
FGL079 15+50N		0.097	0.10	0.62	64	0.13	5.35	49	1.0
FGL079 16+00N		0.080	0.07	0.52	49	0.74	5.34	44	<0.5
FGL079 16+50N		0.041	0.05	0.37	33	0.11	2.58	29	<0.5
FGL079 17+00N		0.032	0.04	0.63	68	0.10	5.44	101	0.6
FGL079 17+50N		0.079	0.08	0.64	45	0.19	5.69	53	1.4
FGL079 18+00N		0.035	0.04	1.27	47	0.09	14.30	62	1.3
FGL079 18+50N		0.055	0.06	0.70	41	0.41	6.11	51	0.9
FGL079 19+00N		0.062	0.06	0.74	47	0.23	6.82	57	1.1
FGL079 19+50N		0.055	0.05	1.18	58	0.22	7.28	59	0.5
FGL079 00+50S		0.025	0.04	0.19	43	0.14	3.19	58	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL079 01+00S		0.42	0.0002	0.01	0.77	3.8	<0.02	<10	220	0.21	0.07	0.16	0.07	13.05	5.9	13
FGL079 01+50S		0.39	0.0011	0.03	1.52	4.2	<0.02	<10	340	0.32	0.07	0.24	0.10	18.55	7.6	20
FGL079 02+00S		0.48	0.0010	0.05	0.95	3.2	<0.02	<10	180	0.18	0.14	0.13	0.09	17.85	4.4	14
FGL079 02+50S		0.39	0.0009	0.03	1.89	8.5	<0.02	<10	310	0.36	0.12	0.17	0.17	19.00	6.8	24
FGL079 03+00S		0.55	0.0009	0.03	2.08	11.4	<0.02	<10	290	0.44	0.14	0.16	0.11	20.6	8.2	33
FGL080 00+00S		0.43	0.0010	0.05	2.47	7.5	<0.02	<10	240	0.81	0.12	0.48	0.07	23.1	7.4	21
FGL080 00+50S		0.25	0.0026	0.04	0.50	3.0	<0.02	<10	50	0.12	0.06	0.17	0.08	5.96	1.9	7
FGL080 01+00S		0.59	0.0040	0.05	1.66	8.2	<0.02	<10	120	0.41	0.13	0.26	0.05	21.9	5.1	21
FGL080 01+50S		0.37	0.0021	0.03	2.37	11.6	<0.02	<10	160	0.81	0.15	0.29	0.07	30.8	10.3	32
FGL080 02+00S		0.34	0.0007	0.06	1.63	5.4	<0.02	<10	110	0.42	0.08	0.15	0.09	13.45	5.7	16
FGL080 02+50S		0.68	0.0028	0.04	2.66	7.4	<0.02	<10	210	0.68	0.11	0.73	0.06	26.4	10.4	21
FGL080 03+00S		0.44	0.0029	0.05	2.30	8.3	<0.02	<10	180	0.63	0.12	0.34	0.08	20.4	7.2	23
FGL080 03+50S		0.35	0.0048	0.18	2.18	5.7	<0.02	<10	210	0.57	0.10	0.54	0.09	19.80	7.0	16
FGL080 04+00S		0.70	0.0014	0.18	1.93	5.7	<0.02	<10	320	0.56	0.23	0.52	0.10	19.35	7.0	19
FGL080 04+50S		0.35	0.0010	0.42	1.49	5.6	<0.02	<10	360	0.58	0.12	0.78	0.18	19.15	5.8	18
FGL080 05+00S		0.58	0.0007	0.09	1.72	13.4	<0.02	<10	170	0.42	0.21	0.31	0.20	21.3	10.3	19
FGL080 05+50S		0.39	0.0004	0.48	0.85	8.4	<0.02	<10	200	0.23	0.06	0.22	0.13	13.00	3.3	9
FGL080 06+00S		0.45	0.0017	0.08	1.46	28.7	<0.02	<10	360	0.66	0.08	0.49	0.09	43.4	8.6	18
FGL080 06+50S		0.53	0.0015	0.15	1.59	85.2	<0.02	<10	190	0.42	0.12	0.34	0.16	19.85	8.5	21
FGL080 07+00S		0.59	0.0014	0.10	2.06	12.6	<0.02	<10	340	0.75	0.15	0.30	0.10	30.6	7.8	29
FGL080 07+50S		0.51	0.0008	0.15	1.65	14.1	<0.02	<10	200	0.39	0.08	0.17	0.13	21.5	6.9	19
FGL080 08+00S		0.63	0.0016	0.05	1.86	17.6	<0.02	<10	150	0.37	0.12	0.19	0.10	18.40	8.7	24
FGL080 08+50S		0.43	0.0004	0.09	1.12	7.5	<0.02	<10	70	0.20	0.17	0.09	0.08	14.25	4.0	18
FGL080 09+00S		0.43	0.0008	0.05	0.91	24.2	<0.02	<10	280	0.41	0.06	0.33	0.03	23.6	5.0	15
FGL080 09+50S		0.57	0.0006	0.02	2.06	11.3	<0.02	<10	170	0.48	0.09	0.26	0.05	24.3	9.6	23
FGL080 10+00S		0.54	0.0013	0.04	2.10	9.5	<0.02	<10	230	0.61	0.13	0.27	0.04	24.1	8.7	32
FGL080 11+00S		0.62	0.0009	0.07	1.99	8.9	<0.02	<10	300	0.82	0.08	0.65	0.07	49.7	14.7	21
FGL080 11+50S		0.29	0.0008	0.04	0.87	2.2	<0.02	<10	120	0.19	0.05	0.32	0.03	12.95	6.0	10
FGL080 12+00S		0.60	0.0156	0.05	1.20	6.6	<0.02	<10	180	0.31	0.08	0.29	0.08	18.65	7.0	18
FGL080 18+00S		0.39	0.0032	0.04	1.32	8.9	<0.02	<10	200	0.24	0.10	0.43	0.07	16.60	6.0	19
FGL080 18+50S		0.39	0.0009	0.12	1.63	12.6	<0.02	<10	620	0.55	0.09	0.70	0.07	21.9	9.9	20
FGL080 19+00S		0.59	0.0012	0.04	2.50	9.8	<0.02	<10	250	0.72	0.13	0.37	0.05	21.7	10.0	33
FGL080 19+50S		0.45	0.0041	0.06	2.35	10.6	<0.02	<10	180	0.53	0.15	0.21	0.08	21.1	10.2	30
FGL080 20+00S		0.42	0.0014	0.03	2.32	9.4	<0.02	<10	160	0.45	0.11	0.26	0.11	19.15	10.1	30
FGL080 20+50S		0.59	0.0007	0.07	1.99	8.8	<0.02	<10	130	0.40	0.14	0.23	0.08	17.75	7.5	24
FGL080 21+00S		0.66	0.0019	0.02	1.77	6.9	<0.02	<10	240	0.46	0.09	0.36	0.06	18.15	8.5	19
FGL080 21+50S		0.84	0.0020	0.01	1.47	5.3	<0.02	<10	380	0.43	0.05	0.34	0.03	20.6	8.2	16
FGL080 22+00S		0.49	0.0003	0.02	1.07	7.2	<0.02	<10	280	0.50	0.06	0.21	0.06	28.8	8.0	10
FGL080 22+50S		0.43	0.0004	0.04	0.89	6.2	<0.02	<10	180	0.38	0.09	0.09	0.12	16.85	6.9	12
FGL081 00+00S		0.47	0.0013	0.13	2.20	25.9	<0.02	<10	410	1.30	0.08	0.77	0.06	42.8	7.9	25

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL079 01+00S		0.63	5.0	1.48	4.00	<0.05	<0.02	0.02	0.013	0.07	6.1	5.1	0.19	341	0.55	0.02
FGL079 01+50S		0.58	8.2	2.26	7.72	0.06	<0.02	0.01	0.022	0.12	9.1	11.0	0.60	461	0.57	0.01
FGL079 02+00S		0.57	8.1	1.57	6.79	0.05	0.02	0.01	0.012	0.07	9.6	5.1	0.26	205	0.57	0.01
FGL079 02+50S		0.88	16.1	2.36	6.54	0.07	<0.02	0.01	0.024	0.09	10.0	12.6	0.40	219	0.73	0.01
FGL079 03+00S		1.24	14.0	2.82	7.09	0.06	0.04	0.01	0.028	0.11	10.2	16.9	0.55	285	0.82	<0.01
FGL080 00+00S		1.55	14.9	2.14	8.14	0.07	0.03	0.04	0.023	0.06	16.9	13.7	0.39	421	0.66	0.01
FGL080 00+50S		0.42	6.4	0.94	3.27	<0.05	<0.02	0.02	0.006	0.03	3.3	3.1	0.09	87	0.35	0.02
FGL080 01+00S		1.08	11.8	1.92	6.68	0.08	<0.02	0.03	0.019	0.05	11.5	11.9	0.38	165	0.49	0.01
FGL080 01+50S		1.45	16.6	2.83	6.71	0.07	0.04	0.02	0.028	0.07	16.8	16.4	0.53	404	0.68	0.01
FGL080 02+00S		1.11	9.7	1.68	4.95	0.06	<0.02	0.02	0.018	0.04	6.5	8.8	0.25	308	0.52	0.02
FGL080 02+50S		1.43	11.2	2.65	9.38	0.06	0.02	0.01	0.033	0.05	13.1	16.3	0.68	714	0.73	0.02
FGL080 03+00S		1.38	12.4	2.28	7.21	0.07	0.04	0.01	0.026	0.06	10.4	13.5	0.50	309	0.57	0.01
FGL080 03+50S		1.64	10.2	2.33	7.90	0.06	<0.02	0.03	0.022	0.05	10.2	10.8	0.38	271	0.43	0.02
FGL080 04+00S		2.59	11.4	1.97	6.64	0.07	0.02	0.14	0.021	0.05	10.3	12.0	0.44	414	0.52	0.01
FGL080 04+50S		3.87	14.3	1.80	5.11	0.07	0.04	0.05	0.026	0.05	13.0	8.5	0.36	391	0.48	<0.01
FGL080 05+00S		3.56	10.7	2.66	5.68	0.06	0.02	0.01	0.032	0.06	10.3	14.6	0.33	1390	0.80	0.01
FGL080 05+50S		3.08	10.2	1.20	3.89	0.06	<0.02	0.06	0.013	0.05	8.3	5.2	0.16	149	0.28	0.01
FGL080 06+00S		3.70	10.3	2.34	5.68	0.09	0.02	0.05	0.026	0.07	35.0	12.8	0.52	662	0.40	<0.01
FGL080 06+50S		3.47	13.4	2.35	5.77	0.06	<0.02	0.09	0.025	0.07	9.9	12.3	0.43	345	0.52	0.01
FGL080 07+00S		2.49	14.5	2.48	7.10	0.08	0.03	0.03	0.029	0.06	22.0	15.4	0.46	259	0.72	<0.01
FGL080 07+50S		1.77	11.2	2.01	4.99	0.06	0.02	0.06	0.021	0.06	10.5	10.8	0.40	333	0.43	<0.01
FGL080 08+00S		1.36	16.3	2.62	6.62	0.06	0.04	0.02	0.027	0.05	8.7	16.1	0.51	298	0.60	0.01
FGL080 08+50S		1.26	8.5	2.03	7.50	0.05	<0.02	0.01	0.013	0.05	7.4	6.7	0.25	156	0.84	<0.01
FGL080 09+00S		1.19	7.7	1.49	3.73	0.06	<0.02	0.03	0.015	0.05	17.2	8.9	0.33	204	0.29	0.01
FGL080 09+50S		1.48	13.2	2.50	7.33	0.06	0.03	0.01	0.024	0.07	11.5	14.7	0.59	410	0.49	0.01
FGL080 10+00S		1.18	18.5	2.47	6.52	0.07	0.06	0.01	0.027	0.06	12.0	15.0	0.52	302	0.54	<0.01
FGL080 11+00S		1.53	12.5	3.72	9.26	0.09	0.04	0.03	0.029	0.04	23.9	15.4	0.71	578	0.40	0.01
FGL080 11+50S		0.66	6.9	1.40	3.95	0.06	<0.02	0.03	0.011	0.03	6.6	4.8	0.19	206	0.24	0.02
FGL080 12+00S		1.15	9.1	1.80	4.56	0.06	<0.02	0.05	0.015	0.04	10.1	9.0	0.36	207	0.35	0.01
FGL080 18+00S		0.91	12.7	1.92	5.83	0.05	<0.02	0.01	0.017	0.04	8.6	10.7	0.43	229	0.62	0.01
FGL080 18+50S		0.88	17.7	2.29	6.21	0.07	0.04	0.07	0.020	0.06	12.7	10.6	0.45	686	0.54	0.01
FGL080 19+00S		1.17	16.7	2.97	7.96	0.07	0.07	0.02	0.028	0.07	11.1	15.3	0.65	337	0.61	<0.01
FGL080 19+50S		1.11	19.8	2.50	6.14	0.07	0.06	0.01	0.022	0.07	9.0	13.7	0.57	262	0.51	<0.01
FGL080 20+00S		0.94	17.9	2.75	7.21	0.07	0.03	0.01	0.026	0.07	8.4	16.0	0.62	285	0.60	0.01
FGL080 20+50S		0.80	13.1	2.49	8.91	0.07	0.02	0.01	0.018	0.07	9.1	16.5	0.49	229	0.70	<0.01
FGL080 21+00S		0.54	14.0	2.37	8.05	0.06	<0.02	0.01	0.019	0.07	8.2	14.5	0.54	371	0.55	<0.01
FGL080 21+50S		0.38	5.6	2.37	8.75	0.05	<0.02	0.02	0.025	0.08	8.6	12.6	0.63	435	0.32	<0.01
FGL080 22+00S		0.36	8.8	2.64	4.67	0.05	<0.02	0.01	0.034	0.06	12.6	6.6	0.20	322	0.54	<0.01
FGL080 22+50S		0.96	8.2	2.19	4.96	<0.05	<0.02	0.02	0.026	0.09	7.7	5.4	0.18	455	0.68	<0.01
FGL081 00+00S		0.81	12.9	2.27	8.36	0.14	0.05	0.23	0.027	0.07	45.4	16.9	0.55	498	0.41	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL079 01+00S		0.44	6.5	340	3.8	9.5	<0.001	<0.01	0.27	1.2	<0.2	0.3	16.9	<0.01	0.02	0.2
FGL079 01+50S		0.86	10.8	400	3.8	17.9	<0.001	<0.01	0.21	3.2	0.4	0.5	20.5	<0.01	0.02	0.9
FGL079 02+00S		1.45	6.1	290	6.6	12.3	<0.001	<0.01	0.23	1.9	0.3	0.6	13.6	<0.01	0.02	1.3
FGL079 02+50S		1.18	15.0	430	7.0	9.8	<0.001	<0.01	0.36	3.1	0.2	0.5	17.8	<0.01	0.02	1.3
FGL079 03+00S		1.67	18.3	260	7.3	11.6	<0.001	<0.01	0.38	4.0	0.3	0.6	16.5	<0.01	0.03	2.7
FGL080 00+00S		1.11	11.9	380	8.2	9.5	<0.001	<0.01	0.17	3.9	0.4	0.5	46.1	0.01	0.03	2.1
FGL080 00+50S		0.30	3.4	280	2.3	3.6	<0.001	0.01	0.10	0.5	<0.2	0.2	14.3	<0.01	<0.01	<0.2
FGL080 01+00S		1.20	11.1	350	6.6	6.1	<0.001	<0.01	0.21	3.6	0.2	0.6	20.4	<0.01	0.01	2.3
FGL080 01+50S		1.60	18.7	560	8.3	10.1	<0.001	<0.01	0.34	4.7	0.6	0.6	23.0	0.01	0.02	3.6
FGL080 02+00S		0.96	8.5	450	4.4	6.6	<0.001	<0.01	0.17	2.5	0.3	0.3	14.8	0.01	0.01	0.8
FGL080 02+50S		1.09	12.3	620	6.9	7.0	<0.001	<0.01	0.24	6.1	0.4	0.5	60.0	0.01	0.01	2.1
FGL080 03+00S		1.32	14.7	490	6.3	10.0	<0.001	<0.01	0.28	4.0	0.3	0.5	29.9	<0.01	0.03	2.4
FGL080 03+50S		0.89	9.6	480	5.6	8.1	<0.001	0.01	0.26	3.7	0.5	0.4	43.4	<0.01	0.01	0.9
FGL080 04+00S		0.86	11.1	510	13.4	7.1	<0.001	<0.01	0.38	3.9	0.4	0.4	49.3	<0.01	0.02	1.2
FGL080 04+50S		0.69	10.7	740	13.3	7.5	<0.001	0.02	0.53	3.6	0.7	0.4	72.9	<0.01	0.02	1.1
FGL080 05+00S		0.91	10.7	500	22.6	9.4	<0.001	<0.01	0.78	3.3	0.3	0.4	28.0	<0.01	0.03	2.2
FGL080 05+50S		0.46	5.5	300	7.4	6.6	<0.001	<0.01	0.28	1.9	<0.2	0.3	20.6	<0.01	0.01	0.4
FGL080 06+00S		0.67	12.5	760	8.4	9.4	<0.001	<0.01	0.56	4.6	0.7	0.4	30.8	<0.01	0.01	3.3
FGL080 06+50S		0.96	13.9	510	10.3	10.8	<0.001	<0.01	0.69	3.3	0.3	0.4	28.4	<0.01	0.01	2.0
FGL080 07+00S		1.29	16.3	330	9.0	9.9	<0.001	<0.01	0.39	5.1	0.7	0.6	24.9	<0.01	0.02	3.1
FGL080 07+50S		0.66	13.6	200	24.7	9.2	<0.001	<0.01	0.70	3.0	0.2	0.4	15.8	<0.01	0.01	2.7
FGL080 08+00S		0.95	16.1	270	9.0	9.7	<0.001	<0.01	0.44	3.4	<0.2	0.5	19.6	<0.01	0.02	2.7
FGL080 08+50S		1.38	8.6	260	6.9	7.9	<0.001	<0.01	0.30	1.9	<0.2	0.6	9.9	<0.01	0.02	0.9
FGL080 09+00S		0.75	9.6	580	6.1	4.8	<0.001	<0.01	0.29	2.8	0.3	0.3	23.4	<0.01	0.01	2.0
FGL080 09+50S		0.93	14.9	370	9.6	9.0	<0.001	<0.01	0.48	3.9	0.4	0.5	22.9	<0.01	0.01	3.0
FGL080 10+00S		1.12	18.5	310	7.4	7.6	<0.001	<0.01	0.33	4.2	0.3	0.5	23.4	<0.01	0.02	3.9
FGL080 11+00S		0.91	12.8	1220	7.6	7.0	<0.001	<0.01	0.50	6.1	0.9	0.5	39.9	<0.01	0.01	3.4
FGL080 11+50S		0.44	5.3	730	3.0	3.7	<0.001	0.01	0.20	1.9	0.2	0.2	25.4	<0.01	0.01	0.6
FGL080 12+00S		0.77	9.0	740	4.9	5.5	<0.001	<0.01	0.25	2.9	0.3	0.3	18.2	<0.01	0.01	1.4
FGL080 18+00S		0.94	11.3	440	5.0	6.4	<0.001	<0.01	0.22	2.8	0.2	0.4	37.5	<0.01	0.02	1.2
FGL080 18+50S		0.68	12.9	790	5.6	6.4	<0.001	0.02	0.25	4.0	0.6	0.3	61.2	<0.01	0.01	1.0
FGL080 19+00S		1.36	20.1	450	7.0	9.8	<0.001	<0.01	0.27	4.6	0.5	0.6	30.6	<0.01	0.02	2.6
FGL080 19+50S		1.21	23.1	320	6.7	8.3	<0.001	<0.01	0.39	4.1	0.3	0.4	19.3	<0.01	0.02	2.8
FGL080 20+00S		1.21	21.1	320	6.6	9.6	<0.001	<0.01	0.29	4.0	<0.2	0.5	25.4	<0.01	0.02	2.1
FGL080 20+50S		1.44	14.0	340	7.6	11.5	<0.001	<0.01	0.25	3.2	0.2	0.6	24.8	<0.01	0.02	1.6
FGL080 21+00S		0.63	12.4	560	7.9	8.9	<0.001	<0.01	0.18	3.1	0.2	0.4	34.2	<0.01	0.01	1.3
FGL080 21+50S		0.34	8.9	600	7.1	6.1	<0.001	<0.01	0.11	3.0	0.3	0.3	24.2	<0.01	0.01	1.5
FGL080 22+00S		0.39	7.4	580	7.4	7.2	<0.001	<0.01	0.20	3.6	0.2	0.3	19.9	<0.01	0.01	1.8
FGL080 22+50S		0.75	7.0	400	6.0	9.4	<0.001	<0.01	0.35	3.2	<0.2	0.4	9.0	<0.01	0.02	1.0
FGL081 00+00S		0.68	13.0	700	7.7	6.6	<0.001	0.01	0.23	6.9	1.0	0.4	45.9	<0.01	0.03	3.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL079 01+00S		0.048	0.06	0.23	39	0.10	1.94	39	<0.5
FGL079 01+50S		0.081	0.07	0.31	53	0.08	3.00	78	<0.5
FGL079 02+00S		0.110	0.08	0.31	51	0.11	2.38	40	0.8
FGL079 02+50S		0.062	0.08	0.36	54	0.19	3.51	52	<0.5
FGL079 03+00S		0.098	0.11	0.44	65	0.20	3.58	59	1.8
FGL080 00+00S		0.038	0.09	0.74	58	0.21	5.25	43	0.9
FGL080 00+50S		0.036	0.02	0.19	32	0.11	1.11	23	<0.5
FGL080 01+00S		0.060	0.10	0.58	51	0.18	4.87	39	0.5
FGL080 01+50S		0.090	0.12	0.77	65	0.56	6.73	55	1.5
FGL080 02+00S		0.050	0.07	0.41	41	0.12	2.99	38	0.5
FGL080 02+50S		0.072	0.10	0.88	68	0.18	5.92	59	0.8
FGL080 03+00S		0.074	0.11	0.49	55	0.23	4.14	48	1.3
FGL080 03+50S		0.063	0.08	0.57	65	0.17	5.39	60	<0.5
FGL080 04+00S		0.042	0.09	0.93	50	0.15	5.56	52	0.8
FGL080 04+50S		0.021	0.12	0.86	40	0.18	9.54	52	0.7
FGL080 05+00S		0.031	0.15	0.55	51	0.12	4.15	92	0.6
FGL080 05+50S		0.032	0.06	0.38	33	0.08	4.33	37	<0.5
FGL080 06+00S		0.039	0.11	0.78	45	0.22	16.90	65	0.5
FGL080 06+50S		0.040	0.15	0.44	49	0.16	3.41	70	0.5
FGL080 07+00S		0.068	0.13	1.21	61	0.20	11.70	51	1.2
FGL080 07+50S		0.029	0.10	0.38	39	0.11	2.79	57	0.9
FGL080 08+00S		0.057	0.09	0.41	58	0.13	2.45	55	1.6
FGL080 08+50S		0.067	0.08	0.28	61	0.18	1.65	33	0.6
FGL080 09+00S		0.043	0.04	0.51	33	0.11	6.59	34	<0.5
FGL080 09+50S		0.059	0.08	0.41	53	0.12	3.90	63	1.1
FGL080 10+00S		0.078	0.09	0.50	57	0.25	3.96	51	2.4
FGL080 11+00S		0.082	0.07	0.80	75	0.13	12.90	72	1.5
FGL080 11+50S		0.054	0.04	0.40	39	0.07	3.28	30	<0.5
FGL080 12+00S		0.055	0.08	0.51	43	0.13	4.90	41	<0.5
FGL080 18+00S		0.057	0.07	0.35	50	0.26	2.88	40	<0.5
FGL080 18+50S		0.044	0.07	0.64	51	0.12	10.00	47	1.0
FGL080 19+00S		0.084	0.11	0.46	68	0.13	4.59	56	2.5
FGL080 19+50S		0.073	0.10	0.43	54	0.16	3.60	49	1.9
FGL080 20+00S		0.099	0.10	0.39	62	0.15	3.57	56	1.3
FGL080 20+50S		0.093	0.09	0.36	65	0.15	3.02	51	0.7
FGL080 21+00S		0.032	0.06	0.30	51	0.13	3.96	71	0.5
FGL080 21+50S		0.016	0.04	0.18	40	0.09	3.44	74	0.5
FGL080 22+00S		0.010	0.05	0.25	42	0.10	3.00	72	<0.5
FGL080 22+50S		0.029	0.06	0.23	43	0.10	2.87	63	<0.5
FGL081 00+00S		0.022	0.05	1.05	45	0.19	32.5	58	1.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL081 00+50S		1.02	0.0018	0.01	1.92	12.4	<0.02	<10	160	0.47	0.10	0.33	0.06	20.7	7.8	24
FGL081 01+00S		0.65	0.0008	0.02	2.59	11.5	<0.02	<10	160	0.54	0.13	0.36	0.09	24.9	10.6	26
FGL081 01+50S		0.91	0.0008	0.02	1.65	8.9	<0.02	<10	120	0.50	0.11	0.26	0.06	26.3	7.0	20
FGL081 02+00S		0.74	0.0007	0.04	2.47	8.4	<0.02	<10	210	0.66	0.12	0.54	0.11	19.90	8.5	19
FGL081 03+00S		0.68	0.0015	0.06	2.68	7.4	<0.02	<10	200	0.64	0.09	1.08	0.08	19.20	8.0	16
FGL081 03+50S		0.56	0.0009	0.18	2.41	7.5	<0.02	<10	340	0.93	0.09	0.96	0.08	27.3	8.8	18
FGL081 04+00S		0.56	0.0016	0.25	1.27	6.0	<0.02	<10	370	0.65	0.10	0.92	0.15	36.4	10.5	15
FGL081 04+50S		0.34	0.0013	0.57	1.39	3.6	<0.02	<10	370	0.72	0.08	0.80	0.11	31.0	2.8	12
FGL081 05+50S		0.49	0.0016	0.17	2.62	33.3	<0.02	<10	570	1.04	0.07	0.84	0.05	36.3	8.9	17
FGL081 06+00S		0.80	0.0008	0.04	2.20	7.7	<0.02	<10	170	0.45	0.11	0.41	0.07	20.0	7.9	20
FGL081 06+50S		0.37	0.0008	0.12	1.33	5.6	<0.02	<10	240	0.36	0.10	0.48	0.08	18.35	7.7	16
FGL081 07+00S		0.69	0.0003	0.17	2.30	9.0	<0.02	<10	600	0.94	0.06	0.43	0.12	44.4	8.9	13
FGL081 07+50S		0.78	0.0007	0.02	2.07	10.3	<0.02	<10	180	0.43	0.11	0.18	0.09	24.5	9.6	24
FGL081 08+00S		0.76	0.0013	0.04	1.74	9.4	<0.02	<10	280	0.38	0.14	0.24	0.06	21.3	7.2	26
FGL081 08+50S		0.78	0.0007	0.10	1.80	9.7	<0.02	<10	180	0.51	0.10	0.36	0.06	22.3	8.5	20
FGL081 09+00S		0.89	0.0058	0.13	1.74	11.4	<0.02	<10	160	0.35	0.15	0.21	0.28	18.85	9.0	23
FGL081 10+00S		0.62	0.0010	0.07	1.79	16.7	<0.02	<10	340	0.48	0.08	0.67	0.06	28.2	7.4	19
FGL081 12+50S		0.40	0.0010	0.15	1.68	5.5	<0.02	<10	320	0.63	0.07	0.41	0.04	25.4	6.7	15
FGL081 13+50S		1.04	0.0021	0.03	1.55	6.7	<0.02	<10	250	0.46	0.08	0.38	0.06	23.0	8.3	20
FGL081 14+00S		0.43	0.0006	0.09	1.02	13.4	<0.02	<10	130	0.25	0.08	0.23	0.08	15.55	4.7	12
FGL081 14+50S		0.23	0.0016	0.11	1.88	13.9	<0.02	<10	290	0.44	0.08	0.68	0.06	25.1	7.9	20
FGL081 15+50S		0.39	0.0008	0.12	1.85	17.2	<0.02	<10	260	0.33	0.08	0.53	0.06	19.85	8.1	23
FGL081 16+00S		0.44	0.0019	0.19	2.06	7.8	<0.02	<10	330	0.64	0.09	0.70	0.12	28.8	11.7	31
FGL081 17+00S		0.66	0.0020	0.13	1.45	6.4	<0.02	<10	210	0.22	0.09	0.57	0.10	22.0	9.4	20
FGL081 17+50S		0.89	0.0016	0.12	1.62	10.1	<0.02	<10	250	0.34	0.10	0.46	0.10	24.6	9.2	21
FGL081 18+00S		0.40	0.0013	0.31	1.70	5.8	<0.02	<10	220	0.44	0.09	0.35	0.08	18.85	7.1	16
FGL081 18+50S		0.63	0.0005	0.08	1.09	2.7	<0.02	<10	150	0.27	0.07	0.17	0.03	10.90	3.9	9
FGL081 19+00S		0.80	0.0010	0.05	2.49	12.4	<0.02	<10	230	0.57	0.13	0.41	0.07	22.3	10.3	27
FGL081 20+00S		0.91	0.0010	0.04	1.89	11.0	<0.02	<10	190	0.36	0.14	0.29	0.06	20.4	9.0	27
FGL081 20+50S		0.72	0.0021	0.05	1.49	7.5	<0.02	<10	140	0.38	0.09	0.24	0.05	18.45	7.2	20
FGL081 21+00S		0.91	0.0012	0.04	2.32	14.0	<0.02	<10	250	0.55	0.12	0.38	0.06	22.5	12.6	31
FGL081 21+50S		0.40	0.0024	0.11	1.80	7.5	<0.02	<10	290	0.41	0.07	0.49	0.03	25.2	8.2	20
FGL081 22+00S		0.68	0.0019	0.12	2.15	6.8	<0.02	<10	600	0.59	0.09	0.63	0.03	25.3	9.0	29
FGL081 22+50S		0.44	0.0008	0.06	2.14	6.8	<0.02	<10	460	0.42	0.09	0.53	0.04	20.1	9.4	28
FGL082 00+00		0.38	0.0010	0.07	1.23	3.7	<0.02	<10	120	0.30	0.09	0.20	0.07	16.80	5.4	14
FGL082 00+50S		0.42	0.0033	0.03	1.98	10.7	<0.02	<10	110	0.30	0.11	0.20	0.11	18.60	12.5	29
FGL082 01+00S		0.40	0.0009	0.04	1.57	8.9	<0.02	<10	130	0.25	0.10	0.19	0.06	16.15	6.7	23
FGL082 01+50S		0.39	0.0017	0.06	2.15	9.3	<0.02	<10	140	0.46	0.12	0.21	0.06	19.80	8.3	29
FGL082 02+00S		0.33	0.0008	0.07	2.37	7.2	<0.02	<10	150	0.38	0.09	0.27	0.11	19.35	12.0	24
FGL082 02+50S		0.58	0.0010	0.05	1.87	6.7	<0.02	<10	250	0.46	0.07	0.37	0.04	21.0	8.6	25

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL081 00+50S		0.80	11.1	2.26	7.33	0.06	0.02	0.02	0.021	0.07	10.6	14.0	0.51	299	0.54	<0.01
FGL081 01+00S		0.89	12.5	3.02	8.70	0.07	0.04	0.01	0.027	0.09	12.8	20.1	0.57	422	0.60	<0.01
FGL081 01+50S		0.72	10.7	2.24	6.01	0.08	0.03	0.04	0.021	0.07	13.4	12.1	0.44	307	0.71	<0.01
FGL081 02+00S		1.01	12.0	2.38	10.30	0.09	0.06	0.01	0.020	0.07	10.9	16.5	0.58	453	0.63	0.01
FGL081 03+00S		2.25	9.2	2.20	10.75	0.08	0.02	0.01	0.023	0.06	10.1	14.1	0.64	401	0.43	0.01
FGL081 03+50S		5.87	15.1	2.42	8.74	0.09	0.04	0.04	0.031	0.06	20.3	16.8	0.62	529	0.41	0.01
FGL081 04+00S		3.99	10.4	1.98	4.83	0.08	0.04	0.06	0.019	0.07	25.4	8.5	0.36	1080	0.61	0.01
FGL081 04+50S		4.20	29.1	1.09	4.66	0.10	0.05	0.10	0.016	0.06	29.0	6.7	0.22	129	0.34	0.01
FGL081 05+50S		5.92	15.1	2.89	10.40	0.10	0.07	0.19	0.033	0.10	31.1	18.9	0.76	426	0.33	0.01
FGL081 06+00S		2.41	10.5	2.59	8.10	0.07	0.02	0.01	0.021	0.08	11.1	14.6	0.55	291	0.52	0.01
FGL081 06+50S		2.36	19.5	1.73	5.22	0.06	<0.02	0.03	0.018	0.04	9.8	9.6	0.35	421	0.47	0.02
FGL081 07+00S		4.50	9.8	2.65	8.87	0.08	0.03	0.03	0.032	0.10	24.3	20.0	0.69	607	0.30	0.01
FGL081 07+50S		1.86	17.6	2.59	6.56	0.08	0.04	0.01	0.022	0.06	10.0	14.1	0.58	329	0.60	<0.01
FGL081 08+00S		1.95	11.1	2.44	6.94	0.07	0.04	0.02	0.019	0.08	11.3	14.4	0.50	353	0.69	0.01
FGL081 08+50S		4.19	11.3	2.56	6.33	0.05	0.02	0.01	0.027	0.09	10.8	11.1	0.45	484	0.67	0.01
FGL081 09+00S		4.22	9.6	3.00	8.93	0.07	0.03	0.02	0.026	0.10	8.8	12.4	0.53	569	0.87	<0.01
FGL081 10+00S		1.13	15.3	2.14	7.36	0.08	0.05	0.09	0.026	0.05	16.5	12.1	0.47	359	0.34	0.02
FGL081 12+50S		1.33	13.3	1.69	5.54	0.10	<0.02	1.54	0.018	0.06	17.1	8.1	0.27	252	0.44	0.02
FGL081 13+50S		3.27	8.5	2.42	7.11	0.07	<0.02	0.01	0.024	0.07	11.9	13.4	0.57	339	0.45	0.01
FGL081 14+00S		4.76	10.9	1.46	5.44	0.06	<0.02	0.04	0.014	0.05	8.1	6.0	0.24	211	0.42	0.02
FGL081 14+50S		1.64	12.1	2.13	7.33	0.11	0.02	0.06	0.027	0.10	14.1	13.0	0.58	306	0.38	0.02
FGL081 15+50S		1.73	10.0	2.11	7.04	0.06	0.03	0.10	0.020	0.05	10.7	11.7	0.54	289	0.34	0.02
FGL081 16+00S		3.68	17.8	2.69	8.52	0.09	0.05	0.09	0.027	0.05	16.1	16.5	0.86	433	0.32	0.01
FGL081 17+00S		5.39	9.8	2.43	7.52	0.08	0.02	0.04	0.019	0.10	11.4	11.7	0.74	401	0.45	0.01
FGL081 17+50S		4.13	17.8	2.42	7.41	0.07	0.02	0.04	0.021	0.14	12.5	13.7	0.64	279	0.46	0.01
FGL081 18+00S		3.28	17.7	1.85	6.10	0.08	<0.02	0.09	0.018	0.07	12.0	8.7	0.27	384	0.53	0.02
FGL081 18+50S		0.88	10.9	1.02	3.78	0.06	<0.02	0.03	0.011	0.04	5.7	4.5	0.13	167	0.30	0.03
FGL081 19+00S		1.58	16.8	2.88	9.05	0.08	0.03	0.02	0.029	0.08	11.2	17.9	0.65	399	0.65	0.01
FGL081 20+00S		1.07	14.5	2.68	8.18	0.07	0.03	0.01	0.026	0.07	10.6	15.1	0.60	341	0.83	0.01
FGL081 20+50S		0.92	14.9	1.92	5.50	0.07	0.02	0.01	0.017	0.06	8.4	10.2	0.43	241	0.46	0.01
FGL081 21+00S		1.14	17.3	3.05	8.33	0.09	0.04	0.02	0.026	0.07	11.1	15.7	0.78	471	0.63	0.01
FGL081 21+50S		0.71	12.5	2.23	7.13	0.12	0.03	0.06	0.020	0.07	14.9	9.6	0.59	396	0.28	0.02
FGL081 22+00S		1.07	20.2	2.50	7.65	0.13	0.05	0.09	0.025	0.07	16.3	12.0	0.57	295	0.31	0.01
FGL081 22+50S		1.06	13.7	2.46	7.85	0.11	0.03	0.04	0.023	0.08	11.4	11.4	0.55	475	0.42	0.01
FGL082 00+00		0.97	12.4	1.55	5.30	0.10	<0.02	0.01	0.011	0.05	8.8	5.7	0.25	270	0.40	0.02
FGL082 00+50S		0.90	14.0	3.08	8.71	0.11	0.04	0.01	0.021	0.09	8.6	13.1	0.65	402	0.69	0.01
FGL082 01+00S		0.96	13.3	2.13	5.98	0.10	0.02	<0.01	0.018	0.06	8.5	11.6	0.42	178	0.53	0.01
FGL082 01+50S		1.10	14.5	2.56	7.56	0.11	0.03	0.01	0.023	0.07	10.8	14.7	0.49	230	0.66	0.01
FGL082 02+00S		0.94	11.0	3.08	9.77	0.12	0.02	0.01	0.024	0.10	9.7	14.8	0.76	564	0.55	0.01
FGL082 02+50S		0.83	13.2	2.29	6.63	0.12	<0.02	0.01	0.019	0.07	11.3	10.7	0.54	355	0.48	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL081 00+50S		1.16	15.7	510	7.1	7.9	<0.001	<0.01	0.24	3.6	0.2	0.5	30.3	<0.01	<0.01	2.2
FGL081 01+00S		1.30	15.4	660	9.8	10.3	<0.001	<0.01	0.25	4.0	0.2	0.5	33.2	0.01	0.02	3.2
FGL081 01+50S		0.79	10.7	330	8.4	7.6	<0.001	<0.01	0.20	3.1	0.2	0.4	20.7	<0.01	0.02	3.3
FGL081 02+00S		1.47	12.7	310	8.0	9.3	<0.001	<0.01	0.27	4.1	0.2	0.5	72.7	0.01	0.02	2.2
FGL081 03+00S		1.06	11.1	600	6.3	8.4	<0.001	<0.01	0.21	4.5	0.2	0.5	114.5	<0.01	<0.01	1.4
FGL081 03+50S		0.82	12.1	890	7.6	8.1	<0.001	0.01	0.36	5.6	0.8	0.4	91.9	0.01	0.01	1.3
FGL081 04+00S		0.48	10.2	950	10.2	9.1	<0.001	0.04	0.65	3.8	0.7	0.3	73.5	<0.01	0.03	2.2
FGL081 04+50S		0.56	8.6	810	6.3	10.4	<0.001	0.05	0.39	3.0	0.6	0.3	77.5	<0.01	0.02	0.9
FGL081 05+50S		0.70	11.6	1070	10.3	13.4	<0.001	0.02	0.56	7.3	0.9	0.4	61.1	<0.01	<0.01	3.3
FGL081 06+00S		1.31	12.8	650	7.1	8.5	<0.001	0.02	0.28	3.6	0.2	0.5	31.3	<0.01	0.02	2.0
FGL081 06+50S		0.82	10.1	610	6.0	6.5	<0.001	0.03	0.37	2.9	0.2	0.4	47.2	<0.01	0.02	0.9
FGL081 07+00S		0.61	9.2	670	8.8	9.5	<0.001	0.02	1.30	6.6	0.4	0.5	36.6	<0.01	0.02	2.7
FGL081 07+50S		1.12	17.9	290	7.2	8.3	<0.001	0.02	0.43	3.8	<0.2	0.5	17.7	<0.01	0.03	3.1
FGL081 08+00S		1.65	15.2	270	6.8	11.3	<0.001	0.02	0.36	3.7	<0.2	0.6	23.6	<0.01	0.03	2.3
FGL081 08+50S		1.02	12.1	690	14.4	12.5	<0.001	0.02	0.74	3.9	<0.2	0.5	26.2	<0.01	0.02	2.5
FGL081 09+00S		1.48	11.6	670	13.2	18.7	<0.001	0.02	0.65	4.2	<0.2	0.7	19.3	<0.01	0.04	2.2
FGL081 10+00S		0.99	10.7	800	6.6	7.7	0.001	0.06	0.34	4.7	0.7	0.4	62.6	<0.01	0.01	2.2
FGL081 12+50S		0.60	9.2	740	3.5	8.8	<0.001	0.05	0.17	3.7	0.3	0.3	31.3	<0.01	0.01	0.6
FGL081 13+50S		0.99	11.1	710	6.1	14.1	<0.001	0.02	0.28	4.0	0.2	0.5	24.3	<0.01	0.01	1.7
FGL081 14+00S		0.60	6.2	470	5.2	12.1	<0.001	0.03	0.34	2.1	0.2	0.4	19.5	<0.01	0.02	0.3
FGL081 14+50S		0.86	11.9	820	4.5	18.5	<0.001	0.05	0.25	4.3	0.2	0.4	44.6	<0.01	0.01	1.0
FGL081 15+50S		0.93	11.3	840	6.4	9.4	<0.001	0.05	0.33	4.2	<0.2	0.4	39.2	<0.01	0.01	1.1
FGL081 16+00S		1.48	29.6	1070	10.9	9.1	<0.001	0.05	0.65	6.2	0.4	0.6	53.2	<0.01	0.02	2.4
FGL081 17+00S		0.96	11.0	1170	12.8	13.2	<0.001	0.02	0.72	4.0	0.3	0.5	35.6	<0.01	0.02	1.7
FGL081 17+50S		0.96	13.2	890	9.4	20.6	<0.001	0.02	0.45	4.6	<0.2	0.5	34.0	<0.01	0.02	1.3
FGL081 18+00S		0.55	10.5	760	3.8	10.5	<0.001	0.05	0.28	3.0	0.3	0.3	38.1	<0.01	0.02	0.4
FGL081 18+50S		0.52	6.0	380	2.6	6.4	<0.001	0.03	0.15	1.5	<0.2	0.2	19.7	<0.01	0.02	0.2
FGL081 19+00S		1.39	18.3	510	7.0	12.5	<0.001	0.02	0.30	4.7	<0.2	0.6	34.3	<0.01	0.03	2.1
FGL081 20+00S		1.57	18.1	420	7.1	9.5	<0.001	0.02	0.30	4.2	<0.2	0.6	26.9	<0.01	0.02	2.1
FGL081 20+50S		1.14	14.9	340	4.8	8.3	<0.001	0.02	0.26	3.2	<0.2	0.4	21.0	<0.01	0.01	1.2
FGL081 21+00S		1.34	21.3	450	6.9	9.4	<0.001	0.02	0.27	5.2	<0.2	0.6	31.0	<0.01	0.02	1.9
FGL081 21+50S		0.89	10.5	800	4.3	9.0	<0.001	0.04	0.21	4.3	0.4	0.4	44.9	<0.01	0.03	1.3
FGL081 22+00S		0.97	15.4	960	6.4	8.2	<0.001	0.06	0.20	5.1	0.6	0.5	58.7	<0.01	0.03	1.2
FGL081 22+50S		1.03	13.8	520	6.3	14.2	<0.001	0.03	0.18	5.0	0.4	0.5	55.9	<0.01	0.02	1.4
FGL082 00+00		0.76	7.2	370	4.7	12.9	<0.001	0.03	0.15	1.9	0.3	0.4	21.4	<0.01	0.02	0.3
FGL082 00+50S		1.69	17.6	430	6.4	14.5	<0.001	0.03	0.37	3.9	0.2	0.6	21.9	<0.01	0.04	2.0
FGL082 01+00S		1.27	15.2	340	5.6	9.7	<0.001	0.02	0.29	2.8	0.2	0.5	18.5	<0.01	0.03	1.5
FGL082 01+50S		1.84	15.3	430	7.0	10.7	<0.001	0.02	0.29	3.7	0.3	0.6	21.8	<0.01	0.04	2.0
FGL082 02+00S		1.35	13.0	690	6.7	14.4	<0.001	0.03	0.23	3.8	0.2	0.5	26.6	<0.01	0.03	1.2
FGL082 02+50S		0.99	14.6	430	5.3	8.7	<0.001	0.02	0.21	3.7	0.5	0.4	32.6	<0.01	0.02	1.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL081 00+50S		0.054	0.07	0.43	54	0.18	4.09	51	0.7
FGL081 01+00S		0.052	0.07	0.46	56	0.20	3.28	66	1.2
FGL081 01+50S		0.046	0.07	0.46	46	0.15	3.03	53	1.3
FGL081 02+00S		0.073	0.06	0.51	62	0.78	5.20	60	2.0
FGL081 03+00S		0.073	0.06	0.51	55	0.22	4.52	61	0.6
FGL081 03+50S		0.050	0.09	1.36	55	0.18	15.15	66	0.9
FGL081 04+00S		0.018	0.07	1.44	35	0.12	15.05	63	1.3
FGL081 04+50S		0.016	0.08	1.20	21	0.14	17.80	46	1.6
FGL081 05+50S		0.036	0.12	1.76	58	0.10	22.0	87	1.8
FGL081 06+00S		0.082	0.09	0.53	64	0.25	3.98	55	0.9
FGL081 06+50S		0.043	0.10	0.74	44	0.26	5.69	40	0.6
FGL081 07+00S		0.020	0.11	0.75	56	0.09	16.00	74	1.2
FGL081 07+50S		0.059	0.10	0.45	55	0.13	3.17	56	1.5
FGL081 08+00S		0.080	0.10	0.44	62	0.16	3.56	52	1.6
FGL081 08+50S		0.032	0.15	0.50	53	0.19	3.88	64	0.7
FGL081 09+00S		0.077	0.13	0.47	72	0.15	3.05	67	1.5
FGL081 10+00S		0.067	0.07	1.49	49	0.12	7.67	57	1.7
FGL081 12+50S		0.040	0.08	0.69	44	0.12	7.97	36	0.7
FGL081 13+50S		0.064	0.09	0.46	59	0.13	4.53	61	<0.5
FGL081 14+00S		0.048	0.10	0.46	43	0.24	3.12	37	<0.5
FGL081 14+50S		0.077	0.11	0.63	49	0.13	5.64	64	1.0
FGL081 15+50S		0.087	0.11	0.59	53	0.15	4.81	62	1.1
FGL081 16+00S		0.113	0.12	1.11	73	0.22	9.53	74	2.5
FGL081 17+00S		0.127	0.12	0.43	69	0.56	4.52	65	0.8
FGL081 17+50S		0.109	0.15	0.53	68	0.14	8.03	54	0.7
FGL081 18+00S		0.049	0.11	0.67	48	0.11	6.02	37	0.6
FGL081 18+50S		0.037	0.08	0.32	26	0.08	2.81	18	<0.5
FGL081 19+00S		0.086	0.12	0.56	75	0.18	5.02	57	1.0
FGL081 20+00S		0.091	0.11	0.44	70	0.18	3.84	51	1.4
FGL081 20+50S		0.067	0.07	0.37	46	0.14	3.40	36	0.7
FGL081 21+00S		0.107	0.11	0.50	72	0.14	4.99	61	1.3
FGL081 21+50S		0.081	0.06	0.50	52	0.09	7.02	54	1.0
FGL081 22+00S		0.068	0.06	0.75	61	0.17	10.50	50	1.2
FGL081 22+50S		0.069	0.07	0.61	61	0.10	6.27	56	0.9
FGL082 00+00		0.064	0.06	0.35	46	0.10	3.18	34	<0.5
FGL082 00+50S		0.118	0.08	0.36	74	0.16	2.94	61	1.4
FGL082 01+00S		0.076	0.07	0.33	53	0.13	2.63	40	0.6
FGL082 01+50S		0.099	0.09	0.47	64	0.18	4.02	43	1.0
FGL082 02+00S		0.128	0.07	0.37	74	0.15	3.11	76	0.9
FGL082 02+50S		0.080	0.07	0.48	55	0.12	6.59	53	0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL082 00+50N		0.46	0.0008	0.06	1.16	6.0	<0.02	<10	110	0.22	0.11	0.18	0.09	15.40	4.0	17
FGL082 01+00N		0.48	0.0005	0.03	1.64	7.1	<0.02	<10	100	0.31	0.06	0.33	0.06	13.30	6.8	19
FGL082 01+50N		0.61	0.0093	0.05	1.30	5.9	<0.02	<10	240	0.22	0.08	0.41	0.07	15.80	6.8	22
FGL082 02+00N		0.53	0.0014	1.07	1.54	9.2	<0.02	<10	260	0.27	0.08	0.40	0.13	19.75	8.3	23
FGL082 02+50N		0.52	0.0009	0.12	1.37	4.8	<0.02	<10	140	0.24	0.06	0.32	0.03	14.95	6.7	21
FGL082 03+00N		0.66	0.0011	0.06	1.55	8.9	<0.02	<10	210	0.36	0.06	0.49	0.04	20.4	8.6	22
FGL082 04+00N		0.40	0.0009	0.15	1.18	7.6	<0.02	<10	190	0.32	0.06	0.33	0.05	13.55	5.5	12
FGL082 04+50N		0.63	0.0016	0.06	1.91	9.3	<0.02	<10	250	0.41	0.10	0.36	0.05	21.1	8.9	27
FGL082 05+00N		0.56	0.0051	0.13	1.49	4.5	<0.02	<10	210	0.30	0.07	0.33	0.04	18.95	6.1	19
FGL082 05+50N		0.76	0.0008	0.05	1.49	6.4	<0.02	<10	140	0.28	0.08	0.28	0.04	17.35	6.8	20
FGL082 06+00N		0.45	0.0003	0.06	0.74	2.6	<0.02	<10	130	0.20	0.05	0.15	0.03	10.50	3.1	9
FGL082 06+50N		0.50	0.0011	0.13	1.31	4.1	<0.02	<10	220	0.30	0.08	0.17	0.04	13.35	3.7	14
FGL082 07+00N		0.45	0.0015	0.09	1.92	6.9	<0.02	<10	170	0.37	0.09	0.38	0.05	18.20	7.8	28
FGL082 07+50N		0.45	0.0031	0.08	1.92	6.4	<0.02	<10	250	0.39	0.09	0.61	0.06	27.9	10.8	27
FGL082 08+00N		0.67	0.0008	0.07	1.53	4.6	<0.02	<10	190	0.40	0.08	0.44	0.04	20.1	7.2	21
FGL082 08+50N		0.61	0.0014	0.06	1.49	5.5	<0.02	<10	180	0.27	0.08	0.46	0.07	18.30	8.3	21
FGL082 09+00N		0.57	0.0032	0.07	1.31	5.7	<0.02	<10	120	0.27	0.08	0.36	0.04	18.00	5.3	20
FGL082 09+50N		0.63	0.0062	0.05	1.28	4.7	<0.02	<10	130	0.23	0.07	0.40	0.05	17.85	8.7	20
FGL082 10+00N		0.66	0.0016	0.05	1.70	6.1	<0.02	<10	150	0.28	0.08	0.51	0.06	22.5	10.6	25
FGL082 10+50N		0.50	0.0015	0.07	1.52	9.6	<0.02	<10	240	0.27	0.07	0.43	0.10	25.3	22.4	23
FGL082 11+50N		0.50	0.0002	0.03	1.52	7.8	<0.02	<10	600	0.62	0.03	0.48	0.03	44.5	8.6	13
FGL082 12+00N		0.57	0.0004	0.04	1.70	8.2	<0.02	<10	230	0.42	0.09	0.18	0.06	19.70	7.9	20
FGL082 12+50N		0.50	0.0009	0.02	1.14	6.9	<0.02	<10	110	0.20	0.07	0.19	0.06	14.45	7.4	10
FGL082 13+00N		0.72	0.0012	0.03	2.10	9.9	<0.02	<10	260	0.64	0.09	0.34	0.05	31.5	8.9	25
FGL082 13+50N		0.59	0.0011	0.03	0.89	5.1	<0.02	<10	160	0.17	0.09	0.21	0.05	19.70	4.4	16
FGL082 14+50N		0.53	0.0007	0.03	0.87	11.7	<0.02	<10	280	0.48	0.05	0.43	0.05	40.2	9.0	12
FGL082 15+00N		0.41	0.0011	0.19	1.29	4.3	<0.02	<10	220	0.39	0.07	0.52	0.06	23.5	6.0	17
FGL082 15+50N		0.48	0.0021	0.17	0.93	4.3	<0.02	<10	160	0.32	0.07	0.39	0.03	14.75	3.7	11
FGL082 17+00N		0.47	0.0043	0.18	1.50	5.8	<0.02	<10	250	0.45	0.09	0.50	0.17	26.0	5.2	21
FGL082 18+00N		0.61	0.0032	0.17	1.42	4.4	<0.02	<10	240	0.40	0.07	0.75	0.09	21.4	7.0	15
FGL082 18+50N		0.53	0.0020	0.10	1.15	5.4	<0.02	<10	140	0.29	0.05	0.75	0.07	22.2	4.9	12
FGL082 19+00N		0.62	0.0010	0.06	1.09	7.2	0.02	<10	260	0.37	0.08	0.42	0.10	17.95	4.2	12
FGL082 19+50N		0.52	0.0010	0.03	1.34	7.7	<0.02	<10	200	0.26	0.14	0.25	0.06	15.65	5.8	22

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To: TRIUMPH GOLD CORP.
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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL082 00+50N		0.96	12.2	1.74	6.23	0.10	<0.02	0.01	0.014	0.05	8.3	8.3	0.27	123	0.54	0.01
FGL082 01+00N		1.91	11.2	2.24	7.50	0.10	0.02	<0.01	0.017	0.05	7.0	12.6	0.54	243	0.47	0.01
FGL082 01+50N		2.17	10.3	2.03	5.47	0.11	0.02	0.01	0.016	0.05	8.2	11.9	0.49	313	0.52	0.01
FGL082 02+00N		5.37	10.6	2.45	7.14	0.10	<0.02	0.07	0.020	0.08	8.4	13.9	0.59	349	0.45	0.01
FGL082 02+50N		2.28	9.2	1.73	4.96	0.11	0.02	0.01	0.012	0.06	8.2	9.3	0.54	224	0.42	0.02
FGL082 03+00N		2.74	9.9	2.34	6.11	0.11	<0.02	<0.01	0.020	0.07	10.4	11.8	0.63	344	0.37	0.02
FGL082 04+00N		1.04	12.0	1.31	4.48	0.10	<0.02	0.04	0.011	0.06	8.6	5.0	0.18	272	0.40	0.02
FGL082 04+50N		1.19	12.2	2.41	7.17	0.12	0.02	0.02	0.020	0.07	12.2	13.0	0.60	328	0.58	0.01
FGL082 05+00N		0.85	12.2	1.75	5.66	0.10	0.02	0.04	0.017	0.05	10.7	8.5	0.41	271	0.36	0.02
FGL082 05+50N		1.02	9.7	1.99	5.98	0.11	<0.02	<0.01	0.017	0.06	10.1	9.9	0.50	233	0.39	0.01
FGL082 06+00N		0.88	6.2	1.02	3.54	0.10	<0.02	0.01	0.009	0.05	5.8	3.7	0.16	133	0.25	0.02
FGL082 06+50N		1.18	11.7	1.23	4.79	0.09	<0.02	0.02	0.013	0.06	8.2	5.7	0.20	126	0.40	0.02
FGL082 07+00N		1.30	10.3	2.33	7.09	0.10	<0.02	0.02	0.020	0.07	10.2	11.7	0.58	268	0.50	0.01
FGL082 07+50N		1.47	11.4	2.33	7.48	0.11	0.02	0.02	0.019	0.06	14.8	13.5	0.68	383	0.55	0.02
FGL082 08+00N		1.59	9.9	1.90	6.10	0.10	<0.02	0.01	0.019	0.05	11.2	10.8	0.52	281	0.35	0.02
FGL082 08+50N		1.98	8.5	2.20	6.17	0.11	<0.02	0.01	0.015	0.05	10.0	10.3	0.54	375	0.41	0.02
FGL082 09+00N		1.21	11.1	1.85	5.15	0.10	<0.02	0.01	0.015	0.04	9.7	8.4	0.40	175	0.37	0.02
FGL082 09+50N		1.04	8.2	1.96	5.47	0.12	<0.02	0.01	0.014	0.04	9.6	8.4	0.44	370	0.35	0.01
FGL082 10+00N		1.19	8.5	2.47	6.99	0.11	0.04	0.02	0.019	0.04	12.3	11.9	0.62	569	0.39	0.01
FGL082 10+50N		1.17	9.3	3.41	5.98	0.11	0.02	0.04	0.018	0.04	12.2	8.9	0.45	2510	0.67	0.01
FGL082 11+50N		1.78	5.7	2.31	6.29	0.10	0.02	<0.01	0.030	0.10	18.6	11.0	0.53	566	0.46	<0.01
FGL082 12+00N		1.88	11.0	2.21	6.76	0.09	0.02	<0.01	0.020	0.06	10.7	11.6	0.42	372	0.59	0.01
FGL082 12+50N		1.09	3.7	1.82	7.77	0.09	<0.02	<0.01	0.010	0.07	6.2	7.1	0.46	507	0.49	0.01
FGL082 13+00N		1.51	13.0	2.54	7.70	0.11	0.03	<0.01	0.022	0.08	23.2	13.3	0.58	410	0.50	0.01
FGL082 13+50N		0.90	6.8	1.47	5.73	0.09	<0.02	<0.01	0.012	0.05	10.5	5.9	0.32	185	0.39	0.01
FGL082 14+50N		1.43	8.2	2.84	4.69	0.12	0.03	<0.01	0.022	0.07	23.6	5.7	0.29	440	0.39	<0.01
FGL082 15+00N		2.56	11.6	1.75	5.11	0.11	<0.02	0.03	0.016	0.04	15.7	7.6	0.37	319	0.33	0.02
FGL082 15+50N		1.36	13.8	1.32	3.61	0.10	0.02	0.04	0.012	0.04	11.0	5.2	0.22	170	0.57	0.02
FGL082 17+00N		1.19	13.9	1.77	5.02	0.11	<0.02	0.04	0.019	0.06	13.0	9.9	0.39	279	0.40	0.01
FGL082 18+00N		1.55	9.1	2.00	5.18	0.12	0.03	0.03	0.019	0.05	13.1	9.3	0.45	494	0.31	0.01
FGL082 18+50N		1.24	5.6	1.47	4.33	0.12	0.03	0.02	0.013	0.06	14.1	7.9	0.42	308	0.18	0.01
FGL082 19+00N		0.60	7.7	1.57	5.10	0.11	<0.02	0.01	0.012	0.06	14.2	7.2	0.29	316	0.43	0.01
FGL082 19+50N		0.72	7.8	1.76	5.61	0.11	0.03	<0.01	0.016	0.07	7.7	9.2	0.34	322	0.54	<0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL082 00+50N		1.16	8.3	310	5.4	10.9	<0.001	0.03	0.21	1.8	0.2	0.5	18.7	<0.01	0.03	0.4
FGL082 01+00N		1.15	9.7	480	4.8	9.3	<0.001	0.02	0.21	3.0	0.2	0.4	35.2	<0.01	0.03	1.1
FGL082 01+50N		1.13	11.7	540	4.7	8.0	<0.001	0.03	0.30	2.7	0.2	0.4	38.8	<0.01	0.03	1.3
FGL082 02+00N		1.12	11.7	610	68.3	13.2	<0.001	0.02	1.92	3.5	<0.2	0.5	32.7	<0.01	0.03	1.5
FGL082 02+50N		1.13	20.3	560	5.1	9.4	<0.001	0.03	0.23	2.6	0.3	0.4	23.1	<0.01	0.03	1.6
FGL082 03+00N		0.82	11.3	890	4.9	9.5	<0.001	0.02	0.40	3.6	0.3	0.4	28.2	<0.01	0.02	1.2
FGL082 04+00N		0.47	6.5	590	3.6	9.7	<0.001	0.05	0.16	1.5	0.3	0.2	28.2	<0.01	0.02	0.2
FGL082 04+50N		1.21	15.4	620	6.6	11.1	<0.001	0.03	0.25	3.7	0.4	0.5	25.7	<0.01	0.03	1.4
FGL082 05+00N		0.64	9.7	840	3.9	7.7	<0.001	0.05	0.16	2.5	0.4	0.3	25.9	<0.01	0.03	0.5
FGL082 05+50N		0.98	11.1	580	4.7	9.1	<0.001	0.02	0.20	2.8	0.2	0.4	20.5	<0.01	0.02	0.9
FGL082 06+00N		0.20	4.2	390	3.1	8.5	<0.001	0.03	0.10	0.6	<0.2	0.2	14.2	<0.01	0.02	<0.2
FGL082 06+50N		0.43	7.1	420	4.1	10.4	<0.001	0.04	0.14	1.2	0.2	0.3	18.2	<0.01	0.02	<0.2
FGL082 07+00N		1.01	14.2	670	5.4	10.8	<0.001	0.03	0.20	3.4	0.3	0.5	27.6	<0.01	0.02	0.9
FGL082 07+50N		0.98	14.9	1020	5.6	10.9	<0.001	0.04	0.21	3.9	0.3	0.5	39.1	<0.01	0.03	1.0
FGL082 08+00N		0.75	10.8	900	4.2	7.9	<0.001	0.04	0.17	2.8	0.3	0.4	28.4	<0.01	0.02	0.6
FGL082 08+50N		0.88	10.6	980	5.2	8.6	<0.001	0.04	0.25	3.0	0.3	0.4	31.1	<0.01	0.02	1.0
FGL082 09+00N		0.89	10.2	840	4.5	7.2	<0.001	0.04	0.24	2.3	0.2	0.4	27.1	<0.01	0.03	0.8
FGL082 09+50N		0.83	10.0	900	3.8	6.6	<0.001	0.03	0.22	2.5	0.2	0.4	29.0	<0.01	0.02	1.0
FGL082 10+00N		1.07	12.1	1140	5.2	8.6	<0.001	0.03	0.26	3.6	0.3	0.5	32.7	<0.01	0.03	2.2
FGL082 10+50N		0.90	10.0	920	5.3	7.2	<0.001	0.05	0.30	3.2	0.4	0.4	30.9	<0.01	0.02	1.2
FGL082 11+50N		0.26	8.1	1130	6.0	6.4	<0.001	0.02	0.27	4.6	0.4	0.4	26.6	<0.01	0.01	3.2
FGL082 12+00N		1.11	10.4	230	7.8	9.4	<0.001	0.02	0.42	3.1	0.2	0.5	19.1	<0.01	0.03	2.7
FGL082 12+50N		1.00	4.4	340	5.9	11.8	<0.001	0.02	0.21	1.5	<0.2	0.4	20.7	<0.01	0.02	1.5
FGL082 13+00N		1.12	13.8	280	12.0	8.5	<0.001	0.02	0.48	4.2	0.4	0.5	32.2	<0.01	0.03	3.4
FGL082 13+50N		1.20	7.0	270	6.5	8.5	<0.001	0.02	0.32	2.0	0.2	0.5	18.8	<0.01	0.02	1.6
FGL082 14+50N		0.44	7.4	700	8.0	4.9	<0.001	0.02	1.32	2.9	0.4	0.3	25.8	<0.01	0.02	3.9
FGL082 15+00N		0.68	8.4	870	5.8	5.8	<0.001	0.04	0.27	3.1	0.4	0.4	41.3	<0.01	0.02	1.0
FGL082 15+50N		0.55	6.9	680	5.2	5.0	<0.001	0.05	0.26	1.8	0.3	0.2	34.5	<0.01	0.02	0.5
FGL082 17+00N		0.74	10.7	550	6.1	9.8	<0.001	0.04	0.25	4.2	0.5	0.4	39.4	<0.01	0.03	0.9
FGL082 18+00N		0.69	8.2	1040	6.0	6.2	<0.001	0.05	0.35	3.2	0.5	0.3	57.1	<0.01	0.02	1.2
FGL082 18+50N		0.72	6.2	1140	4.5	4.5	<0.001	0.04	0.31	3.1	0.4	0.3	46.6	<0.01	0.02	2.0
FGL082 19+00N		0.80	5.7	260	5.5	6.8	<0.001	0.03	0.25	2.3	0.4	0.3	23.9	<0.01	0.02	0.8
FGL082 19+50N		1.31	9.4	280	7.6	11.1	<0.001	0.02	0.19	2.7	0.2	0.5	18.8	<0.01	0.03	1.6

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL082 00+50N		0.077	0.06	0.31	52	0.13	2.46	40	0.5
FGL082 01+00N		0.089	0.05	0.31	58	0.11	2.44	45	0.7
FGL082 01+50N		0.078	0.07	0.34	52	0.12	2.95	51	0.7
FGL082 02+00N		0.085	0.10	0.34	63	0.09	3.10	70	0.6
FGL082 02+50N		0.082	0.07	0.41	44	0.16	3.11	44	0.9
FGL082 03+00N		0.068	0.07	0.40	59	0.10	4.67	59	<0.5
FGL082 04+00N		0.036	0.06	0.44	34	0.08	3.14	33	<0.5
FGL082 04+50N		0.076	0.10	0.51	57	0.25	5.37	61	0.7
FGL082 05+00N		0.062	0.08	0.51	46	0.09	5.22	48	0.5
FGL082 05+50N		0.080	0.08	0.40	51	0.15	3.72	52	<0.5
FGL082 06+00N		0.028	0.05	0.31	29	0.06	2.41	30	<0.5
FGL082 06+50N		0.029	0.07	0.48	30	0.08	3.45	33	<0.5
FGL082 07+00N		0.084	0.09	0.52	60	0.13	4.24	61	<0.5
FGL082 07+50N		0.093	0.08	0.64	62	0.16	6.71	64	0.5
FGL082 08+00N		0.069	0.08	0.90	49	0.11	5.09	49	<0.5
FGL082 08+50N		0.068	0.08	1.00	57	0.47	3.97	57	0.5
FGL082 09+00N		0.066	0.07	0.81	46	0.12	3.87	43	0.5
FGL082 09+50N		0.080	0.06	0.71	50	0.10	3.60	49	0.5
FGL082 10+00N		0.100	0.08	0.78	62	0.12	4.84	63	1.2
FGL082 10+50N		0.065	0.08	0.64	54	0.13	6.01	58	0.7
FGL082 11+50N		0.009	0.04	0.52	40	0.05	7.31	64	0.6
FGL082 12+00N		0.041	0.08	0.40	52	0.12	3.39	54	0.9
FGL082 12+50N		0.046	0.05	0.35	47	0.09	1.84	46	<0.5
FGL082 13+00N		0.061	0.07	0.65	58	0.09	6.81	60	1.1
FGL082 13+50N		0.067	0.06	0.34	48	0.14	2.68	35	<0.5
FGL082 14+50N		0.016	0.05	0.72	38	0.17	6.48	86	0.6
FGL082 15+00N		0.042	0.07	0.88	43	0.10	8.46	43	<0.5
FGL082 15+50N		0.030	0.05	0.64	30	0.09	5.86	32	0.7
FGL082 17+00N		0.043	0.07	1.06	41	0.10	8.49	53	0.6
FGL082 18+00N		0.048	0.05	0.74	46	0.18	8.54	60	0.8
FGL082 18+50N		0.045	0.03	1.00	33	0.14	8.05	55	0.9
FGL082 19+00N		0.044	0.04	0.40	41	0.10	7.70	43	<0.5
FGL082 19+50N		0.058	0.07	0.35	54	0.12	2.71	43	1.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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CERTIFICATE WH17164291

Project: Freegold Mtn - Tinta Property

P.O. No.: 1005139- NOFREG- R1

This report is for 228 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL083 00+00		0.74	0.0014	0.03	1.27	5.4	<0.02	<10	180	0.22	0.11	0.27	0.08	16.10	5.0	19
FGL083 00+50N		0.79	0.0014	0.02	1.84	10.5	<0.02	<10	130	0.36	0.10	0.18	0.10	16.25	9.0	27
FGL083 01+00N		0.71	0.0029	0.03	1.53	7.9	<0.02	<10	120	0.28	0.10	0.27	0.04	16.80	7.2	23
FGL083 01+50N		0.66	0.0005	0.04	1.59	7.6	<0.02	<10	110	0.30	0.10	0.28	0.04	16.20	7.4	22
FGL083 02+00N		0.68	0.0010	0.05	1.13	6.4	<0.02	<10	80	0.20	0.09	0.21	0.04	15.10	5.1	18
FGL083 02+50N		0.73	0.0023	0.03	1.71	7.8	<0.02	<10	120	0.31	0.09	0.24	0.06	17.85	7.2	24
FGL083 03+00N		0.70	0.0012	0.06	1.50	6.8	<0.02	<10	120	0.28	0.11	0.21	0.05	15.20	6.1	23
FGL083 03+50N		0.76	0.0024	0.20	2.42	9.9	<0.02	<10	150	0.42	0.10	0.24	0.11	18.05	10.1	28
FGL083 04+00N		1.00	0.0011	0.18	1.98	9.4	<0.02	<10	380	0.43	0.09	0.37	0.08	22.2	9.4	26
FGL083 04+50N		1.01	0.0014	0.27	1.46	7.7	<0.02	<10	370	0.44	0.07	0.49	0.04	25.2	7.4	22
FGL083 06+50N		0.42	0.0005	0.09	0.67	2.4	<0.02	<10	80	0.16	0.06	0.10	0.03	9.19	1.6	7
FGL083 07+00N		0.70	0.0007	0.03	1.40	8.3	<0.02	<10	100	0.25	0.09	0.19	0.06	14.25	5.9	20
FGL083 07+50N		0.71	0.0009	0.03	1.23	7.8	<0.02	<10	90	0.22	0.12	0.17	0.06	13.40	4.3	18
FGL083 08+00N		0.55	0.0007	0.11	1.03	3.5	<0.02	<10	120	0.28	0.06	0.16	0.05	11.70	3.1	10
FGL083 08+50N		0.70	0.0009	0.05	1.56	5.9	<0.02	<10	400	0.38	0.08	0.29	0.05	20.2	7.2	21
FGL083 09+50N		0.73	0.0015	0.07	1.19	4.3	<0.02	<10	280	0.29	0.08	0.40	0.03	20.3	5.8	18
FGL083 10+00N		0.87	0.0069	0.05	1.58	6.5	<0.02	<10	240	0.30	0.11	0.36	0.06	21.2	8.1	24
FGL083 10+50N		0.73	0.0196	0.04	1.67	6.7	<0.02	<10	190	0.32	0.10	0.37	0.06	17.55	7.3	24
FGL083 11+00N		0.80	0.0009	0.08	1.41	4.3	<0.02	<10	180	0.30	0.07	0.46	0.04	20.1	6.1	19
FGL083 11+50N		0.78	0.0009	0.05	1.89	6.0	<0.02	<10	190	0.29	0.08	0.62	0.04	21.0	9.3	25
FGL083 12+00N		0.75	0.0014	0.05	1.52	5.0	<0.02	<10	170	0.31	0.07	0.52	0.05	20.3	7.7	21
FGL083 13+00N		0.47	0.0008	0.05	1.27	4.6	<0.02	<10	150	0.23	0.07	0.34	0.04	16.90	6.3	19
FGL083 14+50N		0.65	0.0006	0.05	1.28	3.7	<0.02	<10	240	0.35	0.05	0.71	0.05	24.1	6.0	15
FGL083 18+50N		0.78	0.0025	0.06	1.70	8.6	<0.02	<10	220	0.48	0.12	0.43	0.06	30.5	7.6	28
FGL083 20+00N		0.66	0.0005	0.01	1.85	7.3	<0.02	<10	150	0.40	0.08	0.42	0.07	21.0	6.0	24
FGL083 20+50N		0.74	0.0010	0.02	1.50	8.4	<0.02	<10	80	0.24	0.12	0.21	0.05	16.70	5.1	23
FGL083 21+00N		0.80	0.0013	0.09	2.61	18.3	<0.02	<10	130	1.00	0.07	1.43	0.08	40.6	14.9	71
FGL083 22+50N		0.66	0.0008	0.06	1.37	5.9	<0.02	<10	150	0.30	0.07	0.39	0.05	17.40	5.0	23
FGL084 00+00		0.43	0.0003	0.03	1.67	4.9	<0.02	<10	150	0.31	0.10	0.41	0.08	17.55	9.1	21
FGL084 00+50N		0.46	0.0018	0.02	1.55	7.2	<0.02	<10	150	0.31	0.10	0.30	0.05	17.70	7.8	23
FGL084 01+00N		0.42	0.0016	0.13	1.96	7.2	<0.02	<10	360	0.62	0.09	0.62	0.04	26.3	8.3	21
FGL084 01+50N		0.52	0.0006	0.03	1.53	6.9	<0.02	<10	170	0.36	0.09	0.35	0.04	17.90	6.8	18
FGL084 02+00N		0.44	0.0013	0.04	1.25	7.0	<0.02	<10	120	0.25	0.11	0.14	0.07	13.15	4.8	17
FGL084 02+50N		0.64	0.0004	0.04	1.60	6.4	<0.02	<10	210	0.38	0.11	0.25	0.06	19.10	6.8	21
FGL084 03+00N		0.55	0.0020	0.03	2.50	13.0	<0.02	<10	160	0.44	0.12	0.23	0.06	18.20	9.9	25
FGL084 03+50N		0.54	0.0009	0.04	2.78	13.0	<0.02	<10	190	0.62	0.13	0.21	0.06	21.6	9.7	29
FGL084 04+00N		0.52	0.0010	0.02	1.90	9.7	<0.02	<10	200	0.50	0.10	0.29	0.07	23.2	8.7	26
FGL084 04+50N		0.62	0.0006	0.04	1.15	87.6	<0.02	<10	110	0.25	0.06	0.17	0.08	10.10	4.7	11
FGL084 05+00N		0.52	0.0055	0.02	1.55	10.1	<0.02	<10	140	0.36	0.09	0.15	0.09	14.20	6.5	19
FGL084 05+50N		0.50	0.0012	0.05	2.49	11.9	<0.02	<10	160	0.56	0.14	0.32	0.10	19.05	9.9	31

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL083 00+00		0.79	10.9	1.92	6.32	0.11	0.02	<0.01	0.017	0.08	9.0	9.4	0.45	186	0.47	<0.01
FGL083 00+50N		1.01	14.4	2.55	5.60	0.11	0.06	0.47	0.020	0.07	8.1	14.6	0.53	265	0.62	<0.01
FGL083 01+00N		0.79	15.2	2.04	4.65	0.11	0.02	<0.01	0.017	0.06	8.0	9.1	0.43	226	0.53	0.01
FGL083 01+50N		0.84	12.2	2.24	5.90	0.11	0.02	<0.01	0.017	0.08	8.5	11.2	0.53	245	0.61	0.01
FGL083 02+00N		0.77	10.0	1.82	4.67	0.10	<0.02	<0.01	0.014	0.06	7.9	8.5	0.36	194	0.46	0.01
FGL083 02+50N		0.88	12.0	2.35	5.57	0.11	0.03	<0.01	0.018	0.08	9.8	11.8	0.51	234	0.55	0.01
FGL083 03+00N		1.03	12.7	2.01	5.52	0.10	<0.02	<0.01	0.017	0.06	8.0	10.6	0.43	218	0.51	0.01
FGL083 03+50N		3.96	16.9	2.94	7.26	0.10	0.05	<0.01	0.026	0.07	7.9	16.0	0.62	313	0.58	<0.01
FGL083 04+00N		5.24	13.8	2.58	6.53	0.11	0.02	0.01	0.024	0.07	10.2	14.7	0.61	334	0.58	0.01
FGL083 04+50N		2.85	12.1	2.10	5.48	0.11	0.03	0.04	0.017	0.06	14.2	11.5	0.59	312	0.35	0.01
FGL083 06+50N		0.53	10.4	0.67	2.68	0.10	<0.02	0.01	0.007	0.04	5.0	2.5	0.09	49	0.33	0.02
FGL083 07+00N		0.71	8.5	2.18	5.91	0.11	<0.02	<0.01	0.017	0.06	7.1	10.0	0.41	241	0.63	0.01
FGL083 07+50N		0.69	10.5	1.89	6.30	0.10	0.02	<0.01	0.014	0.05	7.0	8.8	0.33	154	0.55	0.01
FGL083 08+00N		0.71	10.7	1.23	3.55	0.10	<0.02	0.01	0.010	0.05	6.2	4.1	0.15	113	0.36	0.02
FGL083 08+50N		2.08	9.7	2.02	5.04	0.11	<0.02	0.01	0.021	0.06	11.2	9.4	0.45	384	0.41	0.01
FGL083 09+50N		0.98	11.2	1.64	4.21	0.12	0.03	0.01	0.015	0.04	11.4	9.0	0.44	290	0.39	0.01
FGL083 10+00N		1.12	12.3	2.16	5.47	0.11	0.02	<0.01	0.019	0.05	11.3	11.7	0.55	368	0.51	0.01
FGL083 10+50N		1.01	10.0	2.24	5.72	0.09	0.03	<0.01	0.018	0.05	9.2	11.2	0.54	298	0.54	0.01
FGL083 11+00N		2.01	9.7	1.86	4.81	0.11	<0.02	<0.01	0.014	0.04	11.6	8.3	0.44	283	0.40	0.01
FGL083 11+50N		1.76	8.0	2.54	7.10	0.12	0.04	0.01	0.020	0.04	12.5	12.7	0.75	327	0.32	0.01
FGL083 12+00N		1.31	8.5	2.17	5.95	0.12	0.03	0.01	0.017	0.04	11.7	10.0	0.58	294	0.35	0.01
FGL083 13+00N		1.03	8.8	1.80	4.90	0.11	<0.02	0.01	0.014	0.04	9.1	7.4	0.41	273	0.38	0.01
FGL083 14+50N		1.11	11.2	1.70	5.45	0.14	0.02	0.01	0.019	0.05	14.4	12.5	0.59	263	0.26	0.01
FGL083 18+50N		0.87	16.3	2.41	5.29	0.12	0.04	0.01	0.024	0.06	16.0	9.8	0.46	249	0.59	0.01
FGL083 20+00N		1.77	11.0	2.08	5.99	0.11	<0.02	<0.01	0.018	0.06	9.1	12.0	0.47	326	0.38	0.01
FGL083 20+50N		0.95	9.6	2.11	6.86	0.10	<0.02	<0.01	0.018	0.05	8.7	10.3	0.36	186	0.54	0.01
FGL083 21+00N		1.84	21.5	3.79	10.45	0.14	0.07	0.02	0.038	0.06	19.6	18.5	1.18	609	0.20	0.02
FGL083 22+50N		0.83	9.6	1.72	4.82	0.10	<0.02	0.01	0.016	0.05	9.2	7.8	0.38	245	0.34	0.01
FGL084 00+00		0.73	9.6	2.66	7.88	0.11	<0.02	<0.01	0.021	0.09	9.0	11.0	0.58	425	0.63	0.01
FGL084 00+50N		1.27	9.7	2.34	6.17	0.10	0.03	<0.01	0.020	0.08	9.2	12.9	0.58	348	0.47	0.01
FGL084 01+00N		3.31	21.8	2.35	7.26	0.08	0.06	0.06	0.027	0.08	18.3	14.0	0.53	370	0.38	0.01
FGL084 01+50N		1.93	12.2	2.00	5.66	0.06	0.04	0.01	0.019	0.07	10.1	11.9	0.50	238	0.38	0.01
FGL084 02+00N		1.59	11.6	1.73	4.86	<0.05	0.03	0.01	0.019	0.07	6.7	10.0	0.33	162	0.45	0.01
FGL084 02+50N		3.68	11.3	2.08	6.13	<0.05	0.04	<0.01	0.022	0.06	10.4	11.1	0.40	336	0.66	0.01
FGL084 03+00N		6.68	10.5	3.59	9.49	0.05	0.05	0.01	0.031	0.09	8.9	18.8	0.71	383	0.70	0.01
FGL084 03+50N		4.03	18.7	3.11	8.02	0.06	0.06	0.01	0.032	0.08	11.2	18.5	0.61	275	0.56	0.01
FGL084 04+00N		1.73	14.7	2.41	6.20	0.05	0.05	0.01	0.023	0.07	11.7	13.5	0.60	324	0.45	0.01
FGL084 04+50N		2.07	9.0	1.60	3.79	<0.05	0.03	0.14	0.017	0.05	4.9	7.1	0.20	129	0.30	0.02
FGL084 05+00N		1.34	12.4	1.89	4.72	<0.05	0.04	0.01	0.018	0.05	7.2	10.9	0.33	164	0.39	0.01
FGL084 05+50N		1.42	17.1	2.89	7.34	0.05	0.06	<0.01	0.027	0.08	9.6	17.5	0.62	363	0.58	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL083 00+00		1.16	10.1	420	5.2	16.6	<0.001	0.02	0.23	2.6	0.2	0.4	22.2	<0.01	0.03	0.9
FGL083 00+50N		1.27	18.3	550	5.7	9.9	<0.001	0.02	0.40	3.5	<0.2	0.4	14.1	<0.01	0.03	2.5
FGL083 01+00N		1.01	14.5	580	5.4	8.0	<0.001	0.02	0.31	2.6	0.2	0.4	17.7	<0.01	0.03	1.4
FGL083 01+50N		1.28	12.4	590	5.1	13.0	<0.001	0.02	0.28	2.8	0.2	0.4	25.6	<0.01	0.03	1.5
FGL083 02+00N		1.03	10.5	460	4.4	9.6	<0.001	0.02	0.27	2.1	0.2	0.4	18.2	<0.01	0.02	1.0
FGL083 02+50N		1.25	14.8	410	5.3	10.9	<0.001	0.03	0.34	3.3	0.2	0.4	18.5	<0.01	0.03	1.7
FGL083 03+00N		1.24	14.9	350	5.4	8.0	<0.001	0.03	0.25	2.6	<0.2	0.5	19.5	<0.01	0.03	0.9
FGL083 03+50N		1.52	17.9	360	6.8	10.7	<0.001	0.02	0.68	3.8	0.3	0.5	24.3	<0.01	0.03	1.9
FGL083 04+00N		1.13	15.7	610	7.4	9.3	<0.001	0.02	0.67	4.3	0.2	0.5	29.3	<0.01	0.03	1.9
FGL083 04+50N		0.92	12.1	740	5.8	6.3	<0.001	0.02	0.51	4.3	0.3	0.4	32.1	<0.01	0.03	2.2
FGL083 06+50N		0.17	4.0	390	2.7	5.6	<0.001	0.04	0.12	0.3	0.2	0.2	11.3	<0.01	0.02	<0.2
FGL083 07+00N		1.06	9.5	540	4.5	9.1	<0.001	0.03	0.26	2.2	0.2	0.4	16.4	<0.01	0.04	0.6
FGL083 07+50N		1.11	8.7	360	5.4	7.1	<0.001	0.03	0.22	1.9	<0.2	0.5	14.5	<0.01	0.03	0.5
FGL083 08+00N		0.24	5.4	630	3.0	6.7	<0.001	0.05	0.13	0.6	0.2	0.2	16.6	<0.01	0.02	<0.2
FGL083 08+50N		0.81	11.2	670	4.6	7.9	<0.001	0.04	0.17	3.2	0.2	0.3	19.8	<0.01	0.02	1.0
FGL083 09+50N		0.75	10.5	870	3.8	5.5	<0.001	0.04	0.20	2.7	0.4	0.3	30.5	<0.01	0.02	1.1
FGL083 10+00N		1.04	12.2	800	5.3	8.0	<0.001	0.03	0.18	3.2	0.4	0.4	27.9	<0.01	0.02	1.7
FGL083 10+50N		1.11	12.4	690	4.9	8.4	<0.001	0.03	0.21	3.2	0.3	0.4	26.5	<0.01	0.02	1.8
FGL083 11+00N		0.65	9.1	1100	3.6	6.2	<0.001	0.04	0.19	2.5	0.2	0.3	28.5	<0.01	0.02	0.8
FGL083 11+50N		1.05	12.3	1330	5.0	7.5	<0.001	0.03	0.24	4.0	0.3	0.4	34.8	<0.01	0.02	2.0
FGL083 12+00N		0.91	10.8	1080	3.9	7.1	<0.001	0.04	0.22	3.3	0.3	0.4	33.2	<0.01	0.02	1.4
FGL083 13+00N		0.71	8.8	810	4.2	5.8	<0.001	0.05	0.19	2.2	0.2	0.3	24.6	<0.01	0.02	0.5
FGL083 14+50N		0.62	8.1	920	4.5	5.1	<0.001	0.06	0.39	3.5	0.5	0.3	132.0	<0.01	0.02	1.7
FGL083 18+50N		1.03	13.4	620	7.8	7.8	<0.001	0.03	0.27	5.6	0.4	0.4	35.3	<0.01	0.02	2.7
FGL083 20+00N		0.79	12.3	760	5.0	7.6	<0.001	0.03	0.22	2.3	0.3	0.4	43.0	0.01	0.03	0.5
FGL083 20+50N		1.34	10.2	360	6.0	6.2	<0.001	0.03	0.23	2.3	0.2	0.5	17.9	<0.01	0.03	0.7
FGL083 21+00N		0.92	21.9	1720	6.8	5.5	<0.001	0.04	0.56	9.4	0.5	0.6	77.7	<0.01	0.02	2.5
FGL083 22+50N		0.75	8.7	620	5.3	4.9	<0.001	0.03	0.28	2.8	0.3	0.3	29.0	<0.01	0.02	0.9
FGL084 00+00		1.15	10.6	600	5.5	15.5	<0.001	0.03	0.23	3.5	<0.2	0.5	38.8	<0.01	0.03	1.1
FGL084 00+50N		1.24	13.0	450	5.5	13.5	<0.001	0.02	0.27	3.1	0.2	0.4	28.1	<0.01	0.02	1.8
FGL084 01+00N		0.85	13.1	860	5.3	11.5	<0.001	0.04	0.40	5.2	0.8	0.4	58.0	<0.01	<0.01	1.2
FGL084 01+50N		1.02	12.4	510	4.6	12.7	<0.001	0.01	0.39	3.5	0.3	0.4	30.6	<0.01	0.01	1.5
FGL084 02+00N		0.98	10.7	270	4.7	10.8	<0.001	0.01	0.38	2.1	0.2	0.4	14.2	<0.01	0.02	0.5
FGL084 02+50N		1.21	11.4	400	5.6	12.2	<0.001	0.01	0.59	3.4	0.3	0.5	21.6	<0.01	0.01	1.5
FGL084 03+00N		1.62	13.2	540	7.3	15.9	<0.001	0.01	0.66	4.8	0.5	0.6	19.2	<0.01	0.02	2.0
FGL084 03+50N		1.74	18.9	350	6.5	12.2	<0.001	0.01	0.46	4.7	0.5	0.6	21.4	<0.01	0.03	2.2
FGL084 04+00N		1.11	16.3	460	5.5	8.0	<0.001	0.01	0.37	4.4	0.4	0.5	21.9	<0.01	0.02	2.2
FGL084 04+50N		0.68	6.5	420	4.6	6.5	<0.001	0.01	0.69	2.2	0.2	0.2	14.4	<0.01	0.01	0.5
FGL084 05+00N		1.10	12.1	330	5.0	7.7	<0.001	0.01	0.28	2.4	0.3	0.4	13.3	<0.01	0.02	1.0
FGL084 05+50N		1.77	17.9	630	6.7	11.4	<0.001	0.01	0.33	4.5	0.6	0.5	24.0	<0.01	0.02	2.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL083 00+00		0.090	0.07	0.32	56	0.26	2.93	42	0.6
FGL083 00+50N		0.079	0.07	0.41	57	0.16	2.93	47	2.4
FGL083 01+00N		0.070	0.08	0.35	50	0.14	2.95	41	0.7
FGL083 01+50N		0.107	0.08	0.38	59	0.14	2.79	45	0.9
FGL083 02+00N		0.072	0.06	0.31	47	0.15	2.16	36	0.6
FGL083 02+50N		0.092	0.08	0.38	56	0.15	3.37	46	0.9
FGL083 03+00N		0.075	0.07	0.37	52	0.17	2.74	39	0.5
FGL083 03+50N		0.097	0.09	0.37	67	0.14	3.19	60	1.6
FGL083 04+00N		0.070	0.10	0.48	59	0.29	4.36	63	0.8
FGL083 04+50N		0.078	0.06	0.63	50	0.13	7.70	52	1.2
FGL083 06+50N		0.021	0.04	0.32	17	0.07	1.80	17	<0.5
FGL083 07+00N		0.082	0.07	0.32	58	0.16	2.39	44	0.5
FGL083 07+50N		0.083	0.07	0.31	56	0.18	2.19	36	0.6
FGL083 08+00N		0.030	0.06	0.38	32	0.08	2.60	26	<0.5
FGL083 08+50N		0.037	0.06	0.41	48	0.20	5.22	49	<0.5
FGL083 09+50N		0.051	0.06	2.16	39	0.49	5.72	42	0.9
FGL083 10+00N		0.067	0.09	0.95	54	0.16	4.13	50	0.7
FGL083 10+50N		0.074	0.07	0.61	57	0.22	3.40	51	1.0
FGL083 11+00N		0.067	0.07	0.84	47	0.12	4.26	43	<0.5
FGL083 11+50N		0.117	0.08	0.83	69	0.14	5.43	66	1.3
FGL083 12+00N		0.098	0.06	0.82	55	0.12	5.28	57	1.0
FGL083 13+00N		0.067	0.07	0.59	49	0.31	3.90	44	0.5
FGL083 14+50N		0.036	0.04	1.05	36	0.08	9.57	60	0.9
FGL083 18+50N		0.061	0.08	1.25	59	0.12	7.65	51	1.2
FGL083 20+00N		0.048	0.05	0.40	46	0.18	3.27	46	<0.5
FGL083 20+50N		0.076	0.08	0.39	59	0.69	2.63	36	0.5
FGL083 21+00N		0.076	0.06	1.77	80	0.15	12.90	93	1.4
FGL083 22+50N		0.041	0.05	0.59	43	0.09	4.30	44	<0.5
FGL084 00+00		0.085	0.07	0.34	66	0.15	2.73	63	0.5
FGL084 00+50N		0.097	0.08	0.37	61	0.14	3.34	54	0.9
FGL084 01+00N		0.068	0.11	0.76	59	0.15	11.60	51	1.1
FGL084 01+50N		0.076	0.10	0.39	48	0.11	3.86	45	0.6
FGL084 02+00N		0.059	0.08	0.29	42	0.15	2.37	37	<0.5
FGL084 02+50N		0.067	0.12	0.42	54	0.13	4.19	48	0.6
FGL084 03+00N		0.090	0.12	0.37	83	0.15	3.72	72	1.0
FGL084 03+50N		0.092	0.11	0.44	69	0.17	4.80	59	1.3
FGL084 04+00N		0.064	0.08	0.46	57	0.15	4.78	54	0.9
FGL084 04+50N		0.035	0.07	0.22	37	0.13	2.54	32	<0.5
FGL084 05+00N		0.045	0.07	0.31	43	0.17	3.00	35	<0.5
FGL084 05+50N		0.105	0.10	0.47	72	0.19	4.55	57	1.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL084 06+00N		0.52	0.0026	0.06	1.06	7.0	<0.02	<10	90	0.15	0.15	0.15	0.05	14.00	3.1	15
FGL084 06+50N		0.59	0.0007	0.04	1.22	4.2	<0.02	<10	110	0.25	0.06	0.24	0.04	10.75	4.8	12
FGL084 07+00N		0.58	0.0003	0.08	0.86	2.8	<0.02	<10	140	0.29	0.05	0.19	0.03	12.85	3.1	9
FGL084 07+50N		0.43	0.0007	0.27	1.83	5.0	<0.02	<10	350	0.59	0.13	0.30	0.06	21.4	4.8	16
FGL084 08+50N		0.54	0.0022	0.06	1.56	5.3	<0.02	<10	340	0.51	0.09	0.56	0.08	22.8	8.2	18
FGL084 09+00N		0.45	0.0005	0.08	1.15	3.2	<0.02	<10	230	0.30	0.09	0.34	0.08	12.10	3.8	12
FGL084 09+50N		0.54	0.0010	0.09	1.67	5.7	<0.02	<10	290	0.48	0.10	0.48	0.09	19.20	7.2	19
FGL084 10+00N		0.59	0.0011	0.05	1.87	13.6	<0.02	<10	270	0.52	0.11	0.59	0.10	21.7	7.7	22
FGL084 10+50N		0.56	0.0013	0.07	1.96	12.0	<0.02	<10	290	0.64	0.09	0.63	0.07	23.3	6.6	19
FGL084 11+00N		0.53	0.0008	0.05	1.32	7.4	<0.02	<10	140	0.40	0.07	0.47	0.08	21.4	6.3	16
FGL084 11+50N		0.42	0.0008	0.15	1.13	5.3	<0.02	<10	160	0.31	0.08	0.34	0.10	20.5	4.3	14
FGL084 12+50N		<0.02	0.0005	0.12	0.83	14.5	<0.02	<10	60	0.24	0.04	0.25	0.04	9.33	3.9	7
FGL084 13+50N		0.76	0.0009	0.11	1.54	26.1	<0.02	<10	140	0.40	0.06	0.48	0.07	19.35	6.8	14
FGL084 17+50N		0.48	0.0006	0.07	2.27	8.6	<0.02	<10	230	0.64	0.06	0.92	0.05	19.05	6.8	10
FGL084 18+00N		0.45	0.0002	0.05	4.95	22.4	<0.02	<10	360	0.67	0.08	1.08	0.08	18.35	17.0	17
FGL084 18+50N		0.41	0.0020	0.02	2.15	11.7	<0.02	<10	140	0.35	0.16	0.24	0.09	17.05	7.6	27
FGL084 19+00N		0.33	0.0006	0.03	1.23	6.0	<0.02	<10	80	0.21	0.12	0.33	0.06	13.40	4.0	12
FGL084 19+50N		0.41	0.0024	0.04	1.97	9.5	<0.02	<10	150	0.38	0.18	0.19	0.19	15.95	7.5	25
FGL084 20+00N		0.51	0.0008	0.06	2.81	12.7	<0.02	<10	200	0.69	0.12	0.64	0.06	18.75	10.9	59
FGL084 20+50N		0.54	0.0038	0.12	1.47	18.9	0.04	<10	340	0.67	0.14	0.60	0.11	28.2	15.8	39
FGL084 21+00N		0.39	0.0020	0.02	3.07	10.9	<0.02	<10	160	0.60	0.13	0.57	0.06	20.6	11.6	40
FGL084 21+50N		0.57	0.0032	0.05	1.73	14.6	<0.02	<10	230	0.44	0.12	0.40	0.04	19.95	7.5	30
FGL084 22+00N		0.41	0.0108	0.16	1.21	6.6	<0.02	<10	320	0.50	0.08	0.70	0.16	24.3	6.3	18
FGL085 00+00		0.49	0.0013	0.13	1.71	9.9	<0.02	<10	460	0.66	0.14	0.44	0.12	48.4	8.1	19
FGL085 00+50S		0.54	0.0019	0.07	1.56	8.2	<0.02	<10	230	0.37	0.15	0.26	0.10	19.70	5.2	23
FGL085 01+00S		0.33	0.0010	0.03	1.98	11.4	<0.02	<10	130	0.29	0.18	0.15	0.10	16.55	5.7	31
FGL085 01+50S		0.53	0.0029	0.03	2.95	22.3	<0.02	<10	110	0.55	0.19	0.38	0.10	19.65	10.3	40
FGL085 02+00S		0.59	0.0014	0.03	3.00	15.2	<0.02	<10	120	0.40	0.15	0.82	0.10	19.40	8.6	36
FGL085 02+50S		0.50	0.0012	0.02	2.44	13.1	<0.02	<10	120	0.37	0.20	0.28	0.11	16.50	7.2	29
FGL085 03+00S		0.56	0.0004	0.06	2.93	11.0	<0.02	<10	160	0.45	0.13	0.59	0.11	17.05	9.2	22
FGL085 03+50S		0.55	0.0010	0.04	3.01	13.2	<0.02	<10	230	0.58	0.16	0.43	0.11	22.4	11.6	28
FGL085 04+00S		0.71	0.0008	0.03	2.76	10.4	<0.02	<10	160	0.51	0.13	0.48	0.08	20.9	8.6	27
FGL085 04+50S		0.64	0.0006	0.10	3.38	11.1	<0.02	<10	270	0.96	0.05	1.47	0.04	30.8	12.3	10
FGL085 05+00S		0.53	0.0006	0.03	2.36	8.4	<0.02	<10	220	0.37	0.14	0.34	0.09	16.05	7.5	22
FGL085 06+00S		0.65	0.0007	0.03	2.39	9.2	<0.02	<10	210	0.31	0.11	0.43	0.13	14.35	9.1	20
FGL085 06+50S		0.61	0.0002	0.08	3.42	12.9	<0.02	<10	280	0.49	0.09	1.04	0.22	17.85	11.0	17
FGL085 08+00S		0.62	0.0004	0.05	2.07	8.7	<0.02	<10	270	0.40	0.08	0.82	0.07	22.1	5.7	10
FGL085 08+50S		0.72	0.0021	0.07	1.63	16.7	<0.02	<10	140	0.37	0.11	0.28	0.07	18.80	6.0	20
FGL085 09+00S		0.60	0.0008	0.09	1.79	11.0	<0.02	<10	140	0.37	0.12	0.29	0.10	20.7	6.3	23
FGL085 09+50S		0.79	0.0014	0.10	1.39	11.9	<0.02	<10	100	0.29	0.13	0.31	0.13	19.30	6.6	20

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL084 06+00N		0.61	9.6	1.59	6.73	<0.05	0.04	<0.01	0.016	0.04	7.7	5.4	0.25	107	0.65	<0.01	
FGL084 06+50N		0.75	8.7	1.53	4.62	<0.05	0.03	<0.01	0.016	0.05	5.3	7.8	0.34	181	0.29	0.01	
FGL084 07+00N		0.89	9.0	1.01	3.19	<0.05	0.03	0.02	0.010	0.04	8.2	4.3	0.16	129	0.22	0.02	
FGL084 07+50N		2.54	14.5	1.75	5.80	0.06	0.05	0.06	0.021	0.07	16.3	9.6	0.26	225	0.37	0.01	
FGL084 08+50N		1.30	9.6	2.22	5.70	0.05	0.06	0.01	0.025	0.05	12.9	11.6	0.49	406	0.42	0.01	
FGL084 09+00N		1.28	12.2	1.27	4.06	<0.05	0.04	0.02	0.015	0.04	8.0	6.0	0.23	160	0.33	0.02	
FGL084 09+50N		1.26	12.1	1.91	5.73	0.05	0.05	0.02	0.021	0.05	13.1	10.8	0.44	353	0.40	0.01	
FGL084 10+00N		1.93	13.4	2.25	6.58	0.05	0.04	0.05	0.021	0.06	13.5	13.7	0.54	354	0.41	0.01	
FGL084 10+50N		2.30	12.7	2.06	6.62	0.05	0.04	0.03	0.022	0.06	16.6	10.7	0.47	316	0.41	0.01	
FGL084 11+00N		7.40	9.4	1.98	5.20	0.05	0.04	0.02	0.022	0.08	12.0	10.1	0.46	383	0.31	0.01	
FGL084 11+50N		6.27	12.6	1.57	4.68	<0.05	0.03	0.04	0.017	0.04	12.8	7.2	0.30	185	0.36	0.01	
FGL084 12+50N		0.93	5.3	1.21	3.42	<0.05	0.03	0.05	0.011	0.04	5.5	4.5	0.20	202	0.19	0.02	
FGL084 13+50N		1.75	10.0	2.01	6.10	0.05	0.04	0.06	0.018	0.05	12.0	10.3	0.47	364	0.29	0.01	
FGL084 17+50N		1.38	10.6	2.21	8.15	0.07	0.05	0.03	0.022	0.06	13.7	13.4	0.61	383	0.21	0.02	
FGL084 18+00N		2.35	21.1	4.43	16.80	0.06	0.11	<0.01	0.046	0.12	8.0	27.3	1.37	814	0.38	0.01	
FGL084 18+50N		1.28	21.8	3.16	8.48	<0.05	0.06	<0.01	0.025	0.06	8.7	16.7	0.49	272	0.78	0.01	
FGL084 19+00N		0.92	11.4	1.49	6.23	<0.05	0.03	<0.01	0.014	0.04	7.0	7.5	0.27	196	0.34	0.01	
FGL084 19+50N		1.17	15.0	2.94	7.24	<0.05	0.04	<0.01	0.029	0.06	8.5	14.7	0.33	244	0.77	0.01	
FGL084 20+00N		2.75	24.6	3.01	9.66	<0.05	0.06	<0.01	0.032	0.07	9.2	21.8	0.81	352	0.43	0.01	
FGL084 20+50N		2.63	31.6	4.51	5.77	0.06	0.06	0.02	0.042	0.05	12.9	8.9	0.34	1340	0.59	<0.01	
FGL084 21+00N		1.41	25.0	2.92	8.24	0.05	0.09	<0.01	0.032	0.08	9.3	16.4	0.69	406	0.52	0.01	
FGL084 21+50N		1.32	15.1	2.37	6.22	<0.05	0.04	0.02	0.025	0.05	11.7	10.9	0.49	337	0.43	0.01	
FGL084 22+00N		1.81	11.4	1.52	4.74	0.06	0.05	0.04	0.016	0.08	15.1	8.9	0.37	498	0.28	0.02	
FGL085 00+00		2.00	18.6	2.29	5.97	0.10	0.05	0.03	0.025	0.09	36.3	14.4	0.40	581	0.44	0.01	
FGL085 00+50S		1.31	11.9	2.08	6.20	<0.05	0.04	<0.01	0.019	0.04	11.3	11.0	0.35	198	0.51	<0.01	
FGL085 01+00S		1.62	18.4	3.39	7.80	<0.05	0.05	0.01	0.025	0.05	8.7	16.5	0.38	179	0.82	<0.01	
FGL085 01+50S		1.83	36.8	3.65	16.70	0.05	0.06	0.02	0.035	0.07	9.6	19.9	0.63	338	1.08	0.01	
FGL085 02+00S		2.14	27.3	2.97	9.56	<0.05	0.06	0.01	0.027	0.10	9.1	17.7	0.63	358	0.71	0.01	
FGL085 02+50S		1.33	29.6	3.28	10.65	<0.05	0.05	0.01	0.028	0.07	8.2	17.7	0.43	247	1.08	0.01	
FGL085 03+00S		1.29	13.1	2.86	10.60	<0.05	0.05	0.01	0.025	0.07	8.4	16.8	0.67	410	0.60	0.01	
FGL085 03+50S		1.80	26.0	3.02	9.46	<0.05	0.06	0.03	0.032	0.11	9.8	17.6	0.70	485	0.63	0.01	
FGL085 04+00S		1.23	11.9	2.92	8.79	<0.05	0.05	0.01	0.024	0.07	10.5	17.0	0.62	330	0.55	0.01	
FGL085 04+50S		4.83	8.2	3.52	13.55	0.06	0.05	0.01	0.040	0.08	11.4	15.1	0.97	870	0.25	0.02	
FGL085 05+00S		1.31	20.0	2.43	8.29	<0.05	0.05	0.01	0.024	0.08	7.9	13.4	0.46	291	0.69	0.01	
FGL085 06+00S		3.27	22.2	2.46	7.88	<0.05	0.04	0.01	0.024	0.08	6.4	14.6	0.57	477	0.57	0.02	
FGL085 06+50S		3.44	14.3	3.16	12.75	<0.05	0.09	0.01	0.037	0.08	7.9	19.1	0.98	648	0.37	0.01	
FGL085 08+00S		1.57	12.4	1.50	7.67	<0.05	0.04	0.02	0.014	0.05	13.0	8.3	0.35	369	0.36	0.01	
FGL085 08+50S		1.70	13.6	1.94	5.92	<0.05	0.03	0.03	0.019	0.06	10.1	11.2	0.40	218	0.42	0.01	
FGL085 09+00S		2.14	11.3	2.17	6.54	0.05	0.04	0.02	0.021	0.06	11.5	12.5	0.43	256	0.56	0.01	
FGL085 09+50S		3.65	9.0	2.38	7.96	<0.05	0.04	0.01	0.018	0.06	10.6	11.4	0.42	353	0.67	0.01	

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL084 06+00N		1.26	6.5	190	6.4	5.4	<0.001	0.01	0.28	1.8	0.3	0.6	14.3	<0.01	0.02	0.4	
FGL084 06+50N		0.54	6.5	530	4.0	7.2	<0.001	0.01	0.13	1.7	0.3	0.3	16.3	<0.01	0.01	0.3	
FGL084 07+00N		0.27	4.9	420	2.0	5.4	<0.001	0.01	0.11	1.3	0.4	0.2	15.4	<0.01	0.01	<0.2	
FGL084 07+50N		0.50	9.0	740	3.8	10.6	<0.001	0.03	0.11	4.3	0.7	0.3	23.0	<0.01	0.02	0.6	
FGL084 08+50N		0.73	11.2	940	4.9	7.7	<0.001	0.02	0.18	4.1	0.5	0.4	32.2	<0.01	0.01	1.3	
FGL084 09+00N		0.55	6.2	580	3.4	6.4	<0.001	0.03	0.12	2.1	0.3	0.3	23.4	<0.01	0.01	0.3	
FGL084 09+50N		0.81	10.6	760	5.0	8.2	<0.001	0.02	0.18	3.7	0.4	0.4	32.8	<0.01	0.01	0.8	
FGL084 10+00N		0.97	12.3	780	5.3	9.0	<0.001	0.02	0.22	3.9	0.5	0.4	39.0	0.01	0.01	1.1	
FGL084 10+50N		0.88	10.8	750	4.7	10.9	<0.001	0.02	0.19	3.7	0.5	0.4	44.1	0.01	0.01	0.8	
FGL084 11+00N		0.74	9.9	1050	4.7	10.1	<0.001	0.02	0.55	2.9	0.4	0.4	26.5	<0.01	0.01	1.2	
FGL084 11+50N		0.56	7.7	690	4.3	6.0	<0.001	0.03	0.29	1.7	0.4	0.3	23.3	<0.01	0.01	0.2	
FGL084 12+50N		0.39	4.0	570	4.2	4.1	<0.001	0.02	0.28	1.3	0.2	0.2	17.7	<0.01	0.01	0.3	
FGL084 13+50N		0.74	7.9	1000	8.5	7.7	<0.001	0.01	0.51	2.8	0.4	0.3	34.2	<0.01	0.01	0.9	
FGL084 17+50N		0.61	5.9	970	7.1	5.0	<0.001	0.02	0.38	4.9	0.5	0.3	69.2	0.01	0.02	0.8	
FGL084 18+00N		0.84	14.2	1110	8.2	8.5	<0.001	0.01	0.42	8.4	0.4	0.7	101.5	0.01	0.02	1.8	
FGL084 18+50N		1.93	13.8	380	11.5	8.2	<0.001	0.01	0.38	3.6	0.3	0.7	25.4	0.02	0.03	2.2	
FGL084 19+00N		1.02	5.6	420	5.8	6.3	<0.001	0.01	0.17	2.0	0.4	0.5	30.9	0.02	0.01	0.3	
FGL084 19+50N		1.60	12.3	490	9.2	10.3	<0.001	0.01	0.32	3.1	0.4	0.7	17.9	<0.01	0.02	1.5	
FGL084 20+00N		1.37	23.9	670	6.7	10.4	<0.001	0.01	0.23	5.4	0.4	0.6	44.7	0.01	0.02	1.7	
FGL084 20+50N		0.58	15.4	1670	23.6	8.4	<0.001	0.02	2.16	6.2	0.7	0.5	29.3	<0.01	0.02	2.0	
FGL084 21+00N		1.91	20.4	580	8.0	9.3	<0.001	0.01	0.30	4.9	0.4	0.6	38.2	0.01	0.02	2.6	
FGL084 21+50N		0.99	11.3	610	6.1	6.9	<0.001	0.01	0.43	3.9	0.5	0.4	23.4	<0.01	0.03	1.8	
FGL084 22+00N		0.61	8.5	740	10.0	8.0	<0.001	0.03	0.44	3.0	0.6	0.2	33.5	<0.01	0.02	0.8	
FGL085 00+00		0.70	10.4	700	8.5	10.4	<0.001	0.03	0.24	3.4	1.0	0.3	35.1	<0.01	0.05	1.7	
FGL085 00+50S		1.41	9.8	340	7.8	7.2	<0.001	0.01	0.18	3.1	0.5	0.5	19.2	<0.01	0.02	1.8	
FGL085 01+00S		2.34	11.6	460	9.1	9.6	<0.001	0.01	0.33	2.8	0.4	0.6	15.6	0.01	0.03	1.4	
FGL085 01+50S		2.08	19.3	550	11.7	8.2	<0.001	0.01	0.40	5.1	0.4	1.0	32.9	0.02	0.04	2.1	
FGL085 02+00S		1.51	16.9	780	7.3	11.0	<0.001	0.01	0.27	4.1	0.4	0.6	74.1	0.01	0.02	2.1	
FGL085 02+50S		1.94	15.2	540	9.3	9.6	<0.001	0.01	0.47	3.3	0.3	0.7	31.6	0.02	0.03	1.3	
FGL085 03+00S		1.46	12.5	430	8.6	7.8	<0.001	0.01	0.32	4.1	0.4	0.7	58.1	0.01	0.01	1.8	
FGL085 03+50S		1.10	17.8	450	9.8	11.8	<0.001	<0.01	0.61	5.3	0.3	0.6	40.0	0.01	0.02	2.6	
FGL085 04+00S		1.40	14.9	580	7.7	7.8	<0.001	0.01	0.27	4.5	0.3	0.6	41.9	0.01	0.01	1.9	
FGL085 04+50S		0.34	7.7	1760	6.5	6.7	<0.001	0.01	0.91	6.8	0.4	0.5	124.0	<0.01	0.01	1.6	
FGL085 05+00S		1.48	12.8	420	8.3	7.5	<0.001	0.01	0.30	3.4	0.3	0.6	34.8	0.02	0.02	1.6	
FGL085 06+00S		1.11	13.3	560	7.3	10.1	<0.001	0.01	0.38	3.2	0.2	0.5	43.3	0.01	0.02	0.8	
FGL085 06+50S		0.93	11.8	750	10.1	7.7	<0.001	0.01	0.52	5.7	0.3	0.6	96.4	0.01	<0.01	1.6	
FGL085 08+00S		0.87	5.8	480	7.1	9.0	<0.001	0.01	0.22	2.8	0.2	0.4	95.9	0.01	0.01	1.2	
FGL085 08+50S		0.90	12.4	590	8.4	8.3	<0.001	0.01	0.28	2.5	0.3	0.4	22.0	<0.01	0.01	0.8	
FGL085 09+00S		1.28	12.7	450	12.7	10.2	<0.001	0.01	0.37	3.1	0.3	0.5	21.5	<0.01	0.01	2.1	
FGL085 09+50S		1.08	10.6	580	18.3	12.6	<0.001	0.01	0.62	2.5	0.2	0.5	23.8	<0.01	0.02	0.9	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL084 06+00N		0.087	0.07	0.31	55	0.10	2.08	28	<0.5
FGL084 06+50N		0.034	0.07	0.24	38	0.11	2.42	37	<0.5
FGL084 07+00N		0.030	0.05	0.29	28	0.07	4.60	23	<0.5
FGL084 07+50N		0.027	0.08	0.86	49	0.10	11.65	36	0.6
FGL084 08+50N		0.026	0.08	0.59	49	0.17	7.05	49	0.8
FGL084 09+00N		0.022	0.07	0.51	33	0.12	4.60	27	<0.5
FGL084 09+50N		0.045	0.07	0.66	47	0.17	7.37	46	0.5
FGL084 10+00N		0.063	0.08	0.66	57	0.14	6.56	55	0.5
FGL084 10+50N		0.056	0.08	0.80	51	0.24	6.85	51	<0.5
FGL084 11+00N		0.053	0.10	0.54	44	0.13	5.17	62	<0.5
FGL084 11+50N		0.040	0.10	0.61	39	0.12	5.07	41	<0.5
FGL084 12+50N		0.044	0.06	0.29	33	0.07	2.21	34	<0.5
FGL084 13+50N		0.067	0.10	0.58	48	0.14	4.43	56	<0.5
FGL084 17+50N		0.070	0.04	0.90	57	0.11	11.40	57	0.7
FGL084 18+00N		0.108	0.06	0.62	97	0.11	5.26	123	2.3
FGL084 18+50N		0.103	0.08	0.43	75	0.21	2.99	51	1.3
FGL084 19+00N		0.076	0.07	0.37	44	0.13	2.94	26	<0.5
FGL084 19+50N		0.069	0.09	0.38	68	0.25	2.59	52	<0.5
FGL084 20+00N		0.068	0.07	0.61	66	0.12	5.01	48	1.0
FGL084 20+50N		0.024	0.15	0.96	85	0.14	8.30	96	0.6
FGL084 21+00N		0.117	0.10	0.50	72	0.24	3.70	62	1.7
FGL084 21+50N		0.026	0.08	0.58	53	0.12	6.13	42	0.5
FGL084 22+00N		0.029	0.06	0.67	32	0.14	9.73	54	0.5
FGL085 00+00		0.032	0.07	1.47	47	0.12	17.65	57	<0.5
FGL085 00+50S		0.057	0.09	0.52	55	0.17	4.36	36	0.5
FGL085 01+00S		0.101	0.09	0.36	81	0.22	2.79	42	0.9
FGL085 01+50S		0.124	0.09	0.79	118	0.25	3.42	56	1.5
FGL085 02+00S		0.118	0.08	0.42	70	0.19	2.91	53	1.4
FGL085 02+50S		0.117	0.09	0.43	95	0.24	2.69	50	0.9
FGL085 03+00S		0.115	0.08	0.51	73	0.16	3.40	74	1.2
FGL085 03+50S		0.078	0.10	0.54	69	0.11	3.93	68	1.3
FGL085 04+00S		0.103	0.08	0.57	68	0.19	3.98	58	0.8
FGL085 04+50S		0.035	0.13	0.75	65	0.13	5.56	101	0.7
FGL085 05+00S		0.099	0.08	0.37	64	0.14	2.80	46	1.1
FGL085 06+00S		0.096	0.08	0.33	59	0.14	2.50	67	<0.5
FGL085 06+50S		0.087	0.05	0.42	72	0.08	4.31	83	2.0
FGL085 08+00S		0.039	0.06	0.50	40	0.15	4.54	34	<0.5
FGL085 08+50S		0.053	0.08	0.48	47	0.18	3.67	41	<0.5
FGL085 09+00S		0.073	0.11	0.48	55	0.15	3.73	48	0.6
FGL085 09+50S		0.077	0.12	0.42	69	0.16	3.30	57	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL085 10+00S		0.42	0.0012	1.42	1.72	8.8	<0.02	<10	190	0.72	0.12	0.35	0.32	30.1	5.3	20
FGL085 10+50S		0.85	0.0009	4.21	1.42	7.2	<0.02	<10	170	0.39	0.09	0.40	0.22	25.0	5.6	17
FGL085 11+00S		0.81	0.0005	0.05	1.43	7.9	<0.02	<10	120	0.37	0.08	0.43	0.08	24.3	7.5	20
FGL085 11+50S		0.33	0.0006	0.12	1.71	5.6	<0.02	<10	120	0.50	0.07	0.63	0.07	18.95	5.2	14
FGL085 12+00S		0.55	0.0007	0.12	1.60	6.1	<0.02	<10	130	0.42	0.10	0.39	0.09	17.20	7.5	18
FGL085 12+50S		0.47	0.0006	0.06	1.60	6.8	<0.02	<10	120	0.39	0.11	0.27	0.08	18.00	5.2	19
FGL085 13+00S		0.94	0.0017	0.02	2.05	8.2	<0.02	<10	180	0.42	0.09	0.64	0.06	23.1	8.6	24
FGL085 13+50S		0.70	0.0017	0.08	1.83	8.8	<0.02	<10	240	0.58	0.14	0.34	0.08	26.4	7.4	25
FGL085 14+00S		0.75	0.0011	0.10	1.79	8.4	<0.02	<10	220	0.51	0.13	0.34	0.05	20.9	6.3	23
FGL085 14+50S		0.53	0.0014	0.10	1.95	7.7	<0.02	<10	210	0.84	0.19	0.41	0.09	30.4	8.2	27
FGL085 15+00S		0.19	0.0009	0.09	1.13	4.3	<0.02	<10	110	0.46	0.12	0.15	0.06	14.05	3.6	13
FGL085 16+00S		0.71	0.0016	0.06	1.91	8.8	<0.02	<10	140	0.40	0.12	0.28	0.10	17.35	7.1	24
FGL085 16+50S		0.65	0.0012	0.06	2.31	8.7	<0.02	<10	210	0.61	0.14	0.39	0.07	23.0	7.8	26
FGL085 17+50S		0.70	0.0017	0.04	1.94	8.5	<0.02	<10	140	0.31	0.18	0.22	0.12	18.50	6.3	20
FGL085 18+00S		0.44	0.0029	0.03	2.68	10.3	<0.02	<10	150	0.51	0.19	0.28	0.11	22.0	11.4	34
FGL085 18+50S		0.54	0.0014	0.04	2.06	9.5	<0.02	<10	160	0.52	0.16	0.32	0.06	22.4	7.7	27
FGL085 19+00S		0.63	0.0006	0.04	1.85	10.2	<0.02	<10	150	0.77	0.15	0.24	0.07	22.5	8.1	27
FGL085 19+50S		0.74	0.0014	0.07	2.05	9.2	<0.02	<10	210	1.10	0.14	0.40	0.06	33.4	8.5	31
FGL085 20+00S		0.72	0.0010	0.03	1.57	21.1	<0.02	<10	330	0.43	0.09	0.42	0.06	25.7	8.0	24
FGL085 20+50S		0.72	0.0010	0.03	1.31	11.8	<0.02	<10	250	0.26	0.11	0.29	0.05	19.40	6.1	21
FGL085 21+00S		0.67	0.0020	0.03	1.98	15.4	<0.02	<10	320	0.45	0.13	0.34	0.06	23.7	8.5	28
FGL085 21+50S		0.66	0.0015	0.05	2.01	17.2	<0.02	<10	370	0.51	0.12	0.29	0.07	24.2	9.8	27
FGL085 22+00S		0.78	0.0004	0.03	1.75	117.5	<0.02	<10	310	0.62	0.05	0.42	0.04	44.2	11.3	17
FGL086 00+00		0.56	0.0017	0.27	1.10	7.4	<0.02	<10	350	0.35	0.17	0.43	0.10	22.6	7.6	23
FGL086 00+50S		0.48	0.0033	0.25	2.09	10.8	<0.02	<10	540	0.89	0.15	0.75	0.03	33.7	10.9	34
FGL086 01+00S		0.53	0.0007	0.04	2.75	20.7	<0.02	<10	130	0.75	0.16	0.39	0.11	20.8	8.3	35
FGL086 01+50S		0.81	0.0012	0.04	2.55	13.6	<0.02	<10	250	0.58	0.12	0.53	0.09	22.0	10.5	36
FGL086 02+00S		0.56	0.0007	0.06	2.79	10.8	<0.02	<10	170	0.66	0.12	0.41	0.09	23.4	9.3	35
FGL086 02+50S		0.78	0.0003	0.05	2.19	10.3	<0.02	<10	120	0.36	0.12	0.43	0.09	14.30	7.2	33
FGL086 03+00S		0.66	0.0004	0.04	3.69	17.7	<0.02	<10	170	0.57	0.11	1.15	0.10	16.90	11.3	15
FGL086 03+50S		0.65	0.0004	0.04	3.34	11.1	<0.02	<10	190	0.61	0.09	0.79	0.07	15.65	9.1	21
FGL086 04+00S		0.67	0.0007	0.05	3.69	14.3	<0.02	<10	180	0.53	0.11	0.51	0.11	17.15	13.0	25
FGL086 04+50S		0.61	0.0006	0.04	2.65	10.9	<0.02	<10	160	0.46	0.16	0.35	0.15	18.70	10.7	23
FGL086 05+00S		0.67	0.0008	0.04	1.89	7.9	<0.02	<10	120	0.27	0.16	0.23	0.11	16.15	8.1	22
FGL086 05+50S		0.64	0.0002	0.04	2.69	64.6	<0.02	<10	250	0.84	0.07	0.76	0.10	36.2	18.6	18
FGL086 06+00S		0.59	0.0031	0.04	2.40	12.0	<0.02	<10	150	0.31	0.16	0.18	0.20	18.35	8.2	28
FGL086 06+50S		0.47	0.0004	0.26	2.53	10.2	<0.02	<10	160	0.36	0.23	0.20	0.11	15.60	9.1	23
FGL086 07+00S		0.43	0.0019	0.10	1.45	4.9	<0.02	<10	240	0.40	0.08	0.71	0.20	28.2	7.6	20
FGL086 07+50S		0.45	0.0007	0.15	1.67	6.9	<0.02	<10	240	0.57	0.08	0.46	0.09	22.2	5.6	15
FGL086 08+00S		0.76	0.0012	0.12	1.95	9.5	<0.02	<10	250	0.64	0.11	0.41	0.05	24.2	8.8	25

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL085 10+00S		9.15	23.8	2.06	6.87	0.05	0.03	0.08	0.020	0.06	20.2	12.4	0.38	275	0.58	0.01
FGL085 10+50S		11.70	14.6	1.99	7.01	<0.05	0.03	0.07	0.021	0.06	15.1	10.4	0.47	368	0.53	0.01
FGL085 11+00S		14.30	7.5	2.37	6.19	0.05	0.04	0.01	0.024	0.07	13.0	12.6	0.52	485	0.49	0.01
FGL085 11+50S		4.47	11.7	1.60	6.73	0.05	0.02	0.04	0.016	0.05	11.5	8.1	0.34	266	0.43	0.02
FGL085 12+00S		1.32	13.4	2.02	7.50	<0.05	0.04	0.03	0.018	0.05	10.4	9.2	0.34	477	0.57	0.02
FGL085 12+50S		0.99	12.1	1.98	7.67	<0.05	0.04	0.02	0.016	0.05	10.8	9.6	0.42	202	0.52	0.01
FGL085 13+00S		1.16	9.6	2.56	7.39	<0.05	0.05	0.02	0.020	0.09	12.5	15.5	0.74	388	0.38	0.01
FGL085 13+50S		2.41	15.6	2.15	6.04	0.05	0.04	0.08	0.022	0.06	16.7	12.0	0.48	305	0.47	0.01
FGL085 14+00S		2.03	13.9	2.01	6.39	0.05	0.03	0.06	0.021	0.06	12.2	11.0	0.42	253	0.50	0.02
FGL085 14+50S		2.16	15.5	2.32	6.86	0.06	0.05	0.05	0.025	0.05	18.3	16.2	0.61	324	0.40	0.01
FGL085 15+00S		1.25	14.5	1.29	4.45	<0.05	0.03	0.03	0.012	0.04	6.8	6.6	0.20	190	0.50	0.02
FGL085 16+00S		1.56	15.3	2.52	8.76	<0.05	0.04	0.02	0.020	0.06	8.9	11.7	0.53	239	0.62	0.01
FGL085 16+50S		1.45	16.2	2.43	7.87	<0.05	0.04	0.02	0.023	0.07	11.6	13.5	0.56	307	0.51	0.01
FGL085 17+50S		1.43	14.4	2.67	10.20	<0.05	0.04	0.01	0.021	0.06	9.4	11.5	0.41	320	0.87	<0.01
FGL085 18+00S		1.63	19.2	3.01	7.54	0.05	0.09	0.02	0.027	0.10	10.4	17.7	0.76	325	0.59	0.01
FGL085 18+50S		3.43	15.1	2.47	7.22	<0.05	0.05	0.01	0.022	0.07	12.3	13.9	0.58	319	0.55	0.01
FGL085 19+00S		1.90	19.0	2.43	6.66	0.05	0.06	0.02	0.023	0.07	11.9	15.2	0.48	410	0.73	0.01
FGL085 19+50S		4.06	21.0	2.61	6.54	0.06	0.05	0.02	0.027	0.08	16.6	17.5	0.63	360	0.48	0.01
FGL085 20+00S		2.05	14.0	2.43	5.59	0.05	0.06	0.04	0.022	0.06	13.0	15.1	0.62	379	0.36	0.01
FGL085 20+50S		1.51	11.5	1.98	5.96	<0.05	0.04	0.02	0.017	0.05	10.8	12.0	0.49	289	0.41	0.01
FGL085 21+00S		1.97	14.8	2.60	6.67	<0.05	0.05	0.03	0.022	0.07	13.1	17.7	0.64	459	0.50	0.01
FGL085 21+50S		1.86	16.1	2.60	7.15	<0.05	0.04	0.02	0.025	0.07	12.8	14.5	0.56	548	0.56	0.01
FGL085 22+00S		1.33	5.5	3.70	7.73	0.13	0.04	0.21	0.031	0.07	23.5	8.5	0.52	510	0.57	0.01
FGL086 00+00		1.14	12.3	1.80	4.07	0.11	0.03	0.04	0.015	0.06	13.4	7.7	0.33	351	0.36	0.02
FGL086 00+50S		1.83	19.4	2.87	8.17	0.14	0.08	0.06	0.029	0.06	22.4	14.8	0.82	540	0.34	0.02
FGL086 01+00S		1.43	19.9	3.34	12.75	0.11	0.06	0.02	0.026	0.05	10.4	14.3	0.45	329	0.82	0.02
FGL086 01+50S		2.12	24.0	2.63	7.51	0.11	0.05	0.02	0.026	0.08	10.2	12.9	0.62	386	0.52	0.02
FGL086 02+00S		1.35	18.6	2.69	7.99	0.12	0.06	0.02	0.025	0.07	12.3	15.6	0.57	233	0.56	0.02
FGL086 02+50S		1.32	12.5	2.36	8.09	0.11	0.04	0.01	0.018	0.06	6.8	13.5	0.52	253	0.49	0.02
FGL086 03+00S		1.57	18.4	2.85	14.25	0.12	0.08	0.01	0.026	0.07	7.9	18.1	0.62	926	0.59	0.02
FGL086 03+50S		1.24	12.8	2.45	9.43	0.12	0.07	0.02	0.029	0.08	7.4	14.7	0.58	375	0.42	0.02
FGL086 04+00S		1.37	22.9	3.41	11.55	0.11	0.07	0.02	0.035	0.09	9.6	20.0	0.86	580	0.58	0.02
FGL086 04+50S		1.90	14.3	3.24	11.25	0.11	0.05	0.01	0.028	0.09	10.0	16.2	0.61	515	0.78	0.01
FGL086 05+00S		1.50	10.9	2.95	9.21	0.11	0.05	0.01	0.022	0.09	8.3	12.6	0.54	429	0.79	0.01
FGL086 05+50S		4.21	10.3	4.81	12.10	0.13	0.06	0.02	0.072	0.13	12.4	21.3	1.18	1180	0.51	0.01
FGL086 06+00S		2.91	18.4	3.03	9.03	0.10	0.05	0.02	0.026	0.06	9.2	17.3	0.45	281	0.86	0.01
FGL086 06+50S		1.71	15.5	2.73	8.52	0.10	0.11	0.01	0.027	0.09	8.0	14.2	0.60	331	0.75	0.01
FGL086 07+00S		1.78	13.8	1.57	5.06	0.13	0.05	0.08	0.017	0.04	15.9	9.8	0.44	435	0.24	0.02
FGL086 07+50S		1.49	12.9	1.64	6.18	0.11	0.03	0.04	0.018	0.06	13.1	10.2	0.35	322	0.37	0.02
FGL086 08+00S		2.06	11.4	2.35	6.29	0.12	0.07	0.02	0.024	0.06	14.4	12.9	0.55	270	0.41	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL085 10+00S		0.71	11.2	570	46.1	14.6	<0.001	0.02	0.83	2.1	0.5	0.5	27.4	<0.01	0.02	<0.2
FGL085 10+50S		0.80	8.7	830	97.7	9.7	<0.001	0.01	2.41	3.0	0.3	0.5	25.7	<0.01	0.01	1.0
FGL085 11+00S		0.87	11.5	890	8.5	11.1	<0.001	0.01	0.89	3.5	0.3	0.4	27.0	<0.01	0.01	2.3
FGL085 11+50S		0.50	8.6	630	4.7	8.6	<0.001	0.02	0.15	2.1	0.3	0.3	51.7	<0.01	0.01	0.2
FGL085 12+00S		0.61	8.5	720	5.7	12.8	<0.001	0.03	0.18	1.9	0.4	0.4	29.9	<0.01	0.01	0.2
FGL085 12+50S		0.90	9.8	390	5.8	11.1	<0.001	0.01	0.22	2.3	0.2	0.5	25.4	<0.01	0.01	0.4
FGL085 13+00S		0.97	14.2	1080	5.2	11.5	<0.001	0.01	0.22	3.7	0.4	0.4	41.6	0.01	0.01	2.2
FGL085 13+50S		0.77	13.7	900	5.8	9.4	<0.001	0.02	0.21	3.3	0.6	0.4	24.9	<0.01	0.01	0.7
FGL085 14+00S		0.71	12.8	570	5.1	9.3	<0.001	0.02	0.20	3.1	0.4	0.4	24.7	<0.01	0.02	0.4
FGL085 14+50S		0.84	15.9	1220	6.8	8.3	<0.001	0.03	0.27	3.2	0.6	0.5	33.1	<0.01	0.01	0.9
FGL085 15+00S		0.47	6.9	520	4.9	6.5	<0.001	0.03	0.22	1.0	0.2	0.3	18.5	<0.01	0.01	<0.2
FGL085 16+00S		1.24	12.5	500	6.8	10.0	<0.001	0.01	0.31	3.2	0.3	0.6	23.6	<0.01	0.01	0.6
FGL085 16+50S		1.12	15.5	580	7.4	10.4	<0.001	0.01	0.27	3.8	0.4	0.5	32.5	<0.01	0.01	1.1
FGL085 17+50S		1.56	10.8	390	9.4	10.1	<0.001	0.01	0.33	3.2	0.2	0.7	27.0	<0.01	0.02	1.6
FGL085 18+00S		1.64	24.1	510	7.3	13.9	<0.001	0.01	0.50	4.3	0.4	0.5	24.1	<0.01	0.02	2.8
FGL085 18+50S		1.22	15.7	500	6.8	11.5	<0.001	0.01	0.39	3.7	0.3	0.5	24.7	<0.01	0.02	1.8
FGL085 19+00S		1.59	17.2	370	6.9	11.4	<0.001	0.01	0.42	3.3	0.4	0.6	27.3	<0.01	0.02	2.4
FGL085 19+50S		1.36	19.2	650	7.1	11.0	<0.001	0.01	0.56	4.3	0.6	0.6	31.3	<0.01	0.02	2.8
FGL085 20+00S		0.81	16.5	740	7.6	8.0	<0.001	0.01	0.39	4.4	0.3	0.4	30.1	<0.01	0.01	1.9
FGL085 20+50S		1.00	10.7	410	5.4	9.9	<0.001	0.01	0.24	3.0	0.3	0.4	21.4	<0.01	0.01	1.2
FGL085 21+00S		1.04	17.1	550	5.6	11.5	<0.001	0.01	0.33	4.4	0.4	0.4	27.0	<0.01	0.02	1.7
FGL085 21+50S		1.07	15.0	450	6.9	12.6	<0.001	0.01	0.32	4.3	0.4	0.5	25.2	<0.01	0.02	2.0
FGL085 22+00S		0.50	9.8	1010	5.9	12.8	<0.001	<0.01	0.35	4.6	0.5	0.4	27.7	<0.01	<0.01	2.1
FGL086 00+00		0.77	12.3	530	10.9	5.7	<0.001	<0.01	0.44	2.7	0.6	0.3	25.4	<0.01	0.05	1.0
FGL086 00+50S		1.26	16.2	1020	12.1	8.5	<0.001	<0.01	0.76	6.2	1.0	0.5	39.2	<0.01	0.04	3.5
FGL086 01+00S		2.59	13.3	560	13.9	7.0	<0.001	0.02	0.34	4.6	0.5	0.8	31.5	0.01	0.06	1.7
FGL086 01+50S		1.21	21.4	500	7.1	10.1	<0.001	0.07	0.52	5.2	0.4	0.5	42.1	0.01	0.02	2.4
FGL086 02+00S		2.15	19.6	510	7.1	7.8	<0.001	0.09	0.32	4.1	0.4	0.5	34.1	0.01	0.02	2.6
FGL086 02+50S		1.61	13.9	430	6.7	9.8	<0.001	0.08	0.25	3.2	0.2	0.6	36.7	0.01	0.01	1.1
FGL086 03+00S		1.56	11.8	840	7.4	7.7	<0.001	0.06	0.21	3.7	0.2	0.5	113.5	<0.01	0.02	1.5
FGL086 03+50S		1.74	14.0	550	7.4	7.6	<0.001	0.06	0.30	4.4	0.4	0.5	81.7	<0.01	0.01	1.9
FGL086 04+00S		1.15	16.0	750	7.9	9.5	<0.001	0.05	0.27	5.5	0.4	0.6	47.9	0.01	0.02	2.1
FGL086 04+50S		1.65	13.9	1190	9.3	11.8	<0.001	0.05	0.29	4.3	0.3	0.7	31.4	0.01	0.02	1.7
FGL086 05+00S		1.62	9.8	960	8.6	14.1	<0.001	0.04	0.38	3.1	0.3	0.7	17.8	<0.01	0.02	1.2
FGL086 05+50S		0.39	11.9	2400	6.1	15.3	<0.001	0.03	2.42	9.6	0.5	0.9	31.5	<0.01	0.01	2.2
FGL086 06+00S		2.24	16.9	450	9.4	9.3	<0.001	0.03	0.39	3.4	0.4	0.6	23.6	0.01	0.03	1.8
FGL086 06+50S		1.46	13.9	280	8.0	8.4	<0.001	0.04	1.00	3.3	0.2	0.5	21.7	<0.01	0.02	2.2
FGL086 07+00S		1.08	10.6	930	6.3	8.5	0.001	0.10	0.36	3.4	0.6	0.3	58.7	<0.01	0.02	1.0
FGL086 07+50S		0.60	8.5	610	5.3	9.0	<0.001	0.06	0.23	2.0	0.4	0.4	50.5	<0.01	0.01	<0.2
FGL086 08+00S		1.22	13.6	530	12.2	8.6	<0.001	0.04	0.35	3.9	0.4	0.5	34.7	<0.01	0.01	3.3

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL085 10+00S		0.049	0.13	0.81	52	0.14	6.83	65	<0.5
FGL085 10+50S		0.064	0.18	0.62	55	0.13	4.84	78	<0.5
FGL085 11+00S		0.065	0.13	0.52	54	0.17	4.79	70	0.5
FGL085 11+50S		0.063	0.06	0.62	44	0.11	3.50	43	<0.5
FGL085 12+00S		0.074	0.06	0.58	59	0.15	3.42	45	<0.5
FGL085 12+50S		0.096	0.08	0.55	58	0.15	3.21	44	0.5
FGL085 13+00S		0.120	0.09	0.49	65	0.13	4.39	64	1.0
FGL085 13+50S		0.045	0.10	1.16	51	0.17	6.91	48	<0.5
FGL085 14+00S		0.055	0.10	0.83	50	0.17	6.05	43	<0.5
FGL085 14+50S		0.062	0.11	1.91	55	0.13	6.95	52	0.5
FGL085 15+00S		0.044	0.07	0.78	33	0.11	2.93	25	<0.5
FGL085 16+00S		0.113	0.07	0.44	73	0.13	3.53	47	0.6
FGL085 16+50S		0.076	0.09	0.56	59	0.14	5.02	50	0.5
FGL085 17+50S		0.086	0.07	0.40	73	0.11	2.58	51	0.8
FGL085 18+00S		0.121	0.10	0.52	71	0.15	3.57	60	2.2
FGL085 18+50S		0.066	0.10	0.52	65	0.14	3.82	48	0.9
FGL085 19+00S		0.090	0.09	0.86	59	0.17	4.06	43	1.3
FGL085 19+50S		0.091	0.11	2.80	64	0.15	8.53	54	1.2
FGL085 20+00S		0.068	0.07	0.83	56	0.11	7.22	53	0.9
FGL085 20+50S		0.077	0.08	0.47	54	0.13	4.41	38	0.5
FGL085 21+00S		0.086	0.08	0.63	61	0.14	6.47	54	0.8
FGL085 21+50S		0.063	0.08	0.56	61	0.21	5.96	52	0.6
FGL085 22+00S		0.019	0.07	0.44	75	0.42	7.15	71	<0.5
FGL086 00+00		0.037	0.06	0.77	37	0.12	6.92	46	<0.5
FGL086 00+50S		0.053	0.09	1.71	56	0.16	14.95	70	1.5
FGL086 01+00S		0.148	0.08	0.64	94	0.24	4.04	45	1.6
FGL086 01+50S		0.080	0.10	0.62	59	0.15	3.89	49	1.1
FGL086 02+00S		0.112	0.08	0.63	64	0.30	4.59	49	1.3
FGL086 02+50S		0.114	0.08	0.37	61	0.18	2.36	55	0.6
FGL086 03+00S		0.083	0.07	0.43	72	0.22	3.33	73	1.9
FGL086 03+50S		0.091	0.07	0.48	57	0.20	3.66	59	1.5
FGL086 04+00S		0.145	0.08	0.50	79	0.09	2.76	81	1.4
FGL086 04+50S		0.135	0.10	0.43	83	0.12	2.83	81	0.9
FGL086 05+00S		0.127	0.11	0.43	80	0.14	2.23	70	0.8
FGL086 05+50S		0.041	0.14	0.61	95	0.06	7.65	137	1.0
FGL086 06+00S		0.102	0.10	0.40	74	0.19	2.65	61	1.5
FGL086 06+50S		0.073	0.11	0.33	66	0.14	2.09	60	3.0
FGL086 07+00S		0.062	0.09	1.09	47	0.11	8.62	62	0.7
FGL086 07+50S		0.041	0.08	0.66	41	0.12	7.03	44	<0.5
FGL086 08+00S		0.073	0.12	0.65	53	0.13	4.91	53	1.7

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL086 08+50S		1.16	0.0013	0.05	2.47	8.2	<0.02	<10	230	0.56	0.07	1.04	0.05	20.7	6.8	16
FGL086 09+00S		0.85	0.0023	0.05	2.46	9.9	<0.02	<10	240	0.77	0.11	0.45	0.05	24.0	9.3	27
FGL086 09+50S		0.69	0.0039	0.07	2.12	11.3	<0.02	<10	140	0.52	0.12	0.18	0.09	23.8	7.1	25
FGL086 10+00S		0.75	0.0029	21.0	1.27	8.1	<0.02	<10	170	0.40	0.09	0.21	0.39	22.1	4.6	16
FGL086 10+50S		0.63	0.0017	8.09	1.59	4.9	<0.02	<10	150	0.43	0.07	0.40	0.26	21.9	5.6	16
FGL086 11+00S		0.44	0.0017	0.09	1.27	7.2	<0.02	<10	90	0.36	0.08	0.31	0.10	18.15	5.1	15
FGL086 11+50S		0.77	0.0010	0.05	1.98	11.9	<0.02	<10	150	0.51	0.11	0.39	0.07	25.8	8.4	25
FGL086 12+00S		0.76	0.0010	0.07	2.13	7.7	<0.02	<10	170	0.50	0.10	0.57	0.08	23.2	8.6	25
FGL086 13+00S		0.76	0.0014	0.05	2.42	11.1	<0.02	<10	170	0.55	0.10	0.64	0.07	24.0	9.2	24
FGL086 13+50S		0.47	0.0007	0.09	1.95	7.9	<0.02	<10	180	0.60	0.10	0.34	0.06	19.75	6.1	18
FGL086 14+00S		0.62	0.0050	0.06	1.45	7.1	0.03	<10	130	0.30	0.11	0.32	0.08	15.50	8.1	17
FGL086 14+50S		0.73	0.0008	0.04	2.17	11.2	<0.02	<10	200	0.41	0.11	0.49	0.09	19.65	9.5	25
FGL086 15+00S		0.68	0.0019	0.07	2.23	10.9	<0.02	<10	330	0.71	0.13	0.50	0.10	30.1	10.8	30
FGL086 15+50S		0.55	0.0006	0.03	2.03	8.2	<0.02	<10	150	0.35	0.12	0.35	0.08	19.05	8.4	24
FGL086 16+00S		0.59	0.0006	0.05	1.74	6.2	<0.02	<10	130	0.43	0.11	0.46	0.07	18.30	6.5	15
FGL086 16+50S		0.72	0.0010	0.05	2.10	7.4	<0.02	<10	160	0.57	0.13	0.27	0.07	23.4	7.7	25
FGL086 17+50S		0.71	0.0016	0.10	2.06	9.1	<0.02	<10	150	0.62	0.17	0.21	0.13	19.90	7.5	30
FGL086 18+00S		0.58	0.0011	0.05	1.91	9.4	<0.02	<10	130	0.48	0.10	0.17	0.08	16.65	6.1	24
FGL086 18+50S		0.68	0.0012	0.03	1.95	9.9	<0.02	<10	140	0.51	0.11	0.18	0.08	19.30	7.6	28
FGL086 19+00S		0.77	0.0008	0.03	2.33	10.4	<0.02	<10	150	0.50	0.16	0.19	0.09	18.05	8.3	23
FGL086 19+50S		0.70	0.0026	0.02	1.91	9.2	<0.02	<10	120	0.64	0.12	0.25	0.08	23.1	7.8	24
FGL086 20+00S		0.56	0.0005	0.03	1.58	8.7	<0.02	<10	320	0.52	0.11	0.25	0.06	21.6	6.2	18
FGL086 20+50S		0.69	0.0008	0.02	1.79	11.3	<0.02	<10	160	0.54	0.12	0.27	0.09	17.45	8.3	25
FGL086 21+00S		0.75	0.0011	0.02	2.29	6.0	<0.02	<10	250	0.73	0.05	0.68	0.03	34.3	11.6	18
FGL086 21+50S		0.61	0.0006	0.01	3.03	10.4	<0.02	<10	270	0.58	0.11	0.41	0.11	21.0	16.1	28
FGL086 22+00S		0.55	0.0101	0.04	2.60	6.6	<0.02	<10	220	0.74	0.04	1.12	0.04	30.3	12.9	24
FGL087 00+00		0.79	0.0008	0.04	1.39	11.9	<0.02	<10	170	0.33	0.11	0.24	0.06	21.0	6.5	20
FGL087 00+50S		0.63	0.0013	0.11	1.86	12.4	<0.02	<10	760	1.01	0.14	0.71	0.06	39.8	10.2	18
FGL087 01+00S		0.73	0.0021	0.03	2.88	14.5	<0.02	<10	170	0.58	0.11	0.38	0.11	20.5	10.6	29
FGL087 01+50S		0.65	0.0138	0.02	2.46	13.6	<0.02	<10	190	0.50	0.14	0.29	0.10	16.60	11.7	37
FGL087 02+00S		0.72	0.0009	0.05	2.48	12.6	<0.02	<10	160	0.49	0.10	0.64	0.06	15.75	8.6	31
FGL087 02+50S		0.63	0.0004	0.04	1.69	7.2	<0.02	<10	110	0.37	0.09	0.41	0.04	16.80	6.2	24
FGL087 03+00S		0.60	0.0006	0.07	1.49	6.9	<0.02	<10	160	0.46	0.09	0.37	0.08	24.3	8.2	18
FGL087 03+50S		0.63	0.0006	0.07	1.47	8.5	<0.02	<10	110	0.24	0.16	0.14	0.10	13.95	7.4	24
FGL087 04+00S		0.68	0.0003	0.03	1.73	10.0	<0.02	<10	130	0.38	0.13	0.28	0.10	17.45	8.0	20
FGL087 04+50S		0.81	0.0011	0.03	2.23	10.7	<0.02	<10	180	0.44	0.11	0.24	0.06	19.15	8.7	27
FGL087 05+00S		0.72	0.0009	0.02	1.93	10.5	<0.02	<10	150	0.39	0.12	0.20	0.06	17.40	8.4	25
FGL087 05+50S		0.86	0.0005	0.02	2.23	11.2	<0.02	<10	160	0.43	0.11	0.26	0.06	16.00	8.6	28
FGL087 06+50S		0.82	0.0007	0.03	0.97	6.2	<0.02	<10	120	0.30	0.08	0.42	0.07	22.4	6.1	19
FGL087 07+00S		0.78	0.0013	0.02	1.36	6.6	<0.02	<10	120	0.37	0.10	0.26	0.05	24.3	6.1	23

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL086 08+50S		1.58	8.1	2.02	7.31	0.13	0.05	0.01	0.020	0.06	12.4	12.4	0.55	343	0.30	0.01
FGL086 09+00S		2.19	11.9	2.57	7.15	0.12	0.05	0.02	0.028	0.06	14.1	14.1	0.59	368	0.47	0.01
FGL086 09+50S		3.02	10.8	2.48	6.87	0.11	0.05	0.02	0.023	0.05	12.4	13.8	0.38	202	0.74	0.01
FGL086 10+00S		4.33	15.3	1.65	5.71	0.11	0.04	0.24	0.015	0.06	13.6	7.8	0.27	288	0.43	0.01
FGL086 10+50S		12.40	15.6	1.66	6.24	0.10	0.03	0.18	0.020	0.05	12.8	8.8	0.33	373	0.38	0.02
FGL086 11+00S		5.26	10.5	1.83	5.84	0.10	0.03	0.03	0.016	0.05	10.2	7.8	0.29	319	0.45	0.02
FGL086 11+50S		4.83	13.1	2.50	7.27	0.12	0.05	0.02	0.025	0.06	14.7	13.6	0.55	347	0.55	0.01
FGL086 12+50S		1.08	11.9	2.48	7.49	0.12	0.05	0.03	0.024	0.05	14.0	13.3	0.64	349	0.42	0.02
FGL086 13+00S		1.39	11.7	2.67	8.61	0.13	0.05	0.02	0.024	0.07	12.4	14.9	0.68	393	0.43	0.02
FGL086 13+50S		1.26	15.9	1.96	7.19	0.11	0.03	0.04	0.020	0.06	11.4	9.3	0.42	210	0.51	0.02
FGL086 14+00S		1.40	9.6	1.89	6.86	0.10	0.03	0.02	0.017	0.06	8.3	9.5	0.39	387	0.51	0.02
FGL086 14+50S		1.89	10.8	2.75	8.11	0.12	0.06	0.02	0.024	0.08	9.6	16.0	0.70	403	0.56	0.01
FGL086 15+00S		1.77	15.6	2.64	7.58	0.12	0.06	0.08	0.028	0.06	15.5	15.5	0.67	494	0.46	0.01
FGL086 15+50S		1.48	10.8	2.46	8.17	0.12	0.04	0.05	0.026	0.06	9.7	14.3	0.60	258	0.47	0.01
FGL086 16+00S		1.18	9.8	1.86	7.46	0.11	0.03	0.02	0.018	0.06	9.7	9.9	0.36	352	0.40	0.02
FGL086 16+50S		1.46	12.2	2.44	7.53	0.11	0.06	0.02	0.023	0.07	11.5	12.8	0.50	232	0.51	0.01
FGL086 17+50S		1.43	13.5	2.79	8.00	0.10	0.05	0.02	0.024	0.06	9.9	16.5	0.44	269	0.87	0.01
FGL086 18+00S		1.11	11.5	2.21	6.60	0.10	0.06	0.01	0.019	0.05	8.4	14.0	0.41	176	0.71	0.01
FGL086 18+50S		1.18	17.4	2.36	5.55	0.09	0.13	0.03	0.024	0.07	8.5	13.1	0.49	229	0.62	0.01
FGL086 19+00S		1.96	12.8	2.54	8.72	0.09	0.07	0.02	0.024	0.06	8.8	15.3	0.46	412	0.70	0.01
FGL086 19+50S		1.33	13.4	2.10	5.44	0.10	0.05	0.02	0.022	0.07	10.5	11.7	0.47	213	0.42	0.01
FGL086 20+00S		2.36	11.8	2.58	7.23	0.09	0.03	0.01	0.024	0.07	10.5	11.0	0.41	333	0.71	0.01
FGL086 20+50S		1.44	15.0	2.45	6.85	0.10	0.06	0.01	0.022	0.06	8.6	14.0	0.52	250	0.58	0.01
FGL086 21+00S		0.97	7.2	2.96	9.32	0.11	0.04	0.01	0.026	0.08	21.8	13.5	0.96	573	0.23	0.01
FGL086 21+50S		1.06	11.5	3.77	12.20	0.12	0.05	0.02	0.031	0.10	10.1	19.0	1.06	547	0.52	0.01
FGL086 22+00S		0.66	7.0	3.06	11.40	0.14	0.04	0.02	0.022	0.07	17.8	15.7	1.03	537	0.26	0.02
FGL087 00+00		1.27	7.7	2.01	6.81	0.10	0.05	0.01	0.016	0.07	11.0	12.5	0.40	345	0.56	0.01
FGL087 00+50S		1.50	12.1	2.54	7.64	0.11	0.04	0.02	0.032	0.11	17.7	9.9	0.50	892	0.49	0.01
FGL087 01+00S		1.66	21.9	2.61	8.31	0.11	0.08	0.02	0.024	0.07	10.2	14.5	0.53	298	0.54	0.01
FGL087 01+50S		1.29	21.1	3.04	8.88	0.10	0.06	0.02	0.028	0.06	8.2	15.4	0.67	367	0.71	0.01
FGL087 02+00S		1.49	20.4	2.44	9.00	0.11	0.05	0.02	0.023	0.06	8.1	14.9	0.60	243	0.43	0.02
FGL087 02+50S		0.78	12.4	1.86	6.82	0.09	0.04	0.02	0.014	0.06	9.6	9.7	0.40	188	0.41	0.01
FGL087 03+00S		1.60	9.5	2.28	6.28	0.10	0.03	0.02	0.022	0.06	10.9	12.1	0.47	373	0.41	0.01
FGL087 03+50S		1.03	8.9	2.48	7.25	0.09	0.03	0.01	0.017	0.07	7.0	11.1	0.37	461	0.82	0.01
FGL087 04+00S		1.04	13.4	2.42	7.22	0.10	0.03	0.01	0.021	0.07	8.7	12.8	0.46	302	0.56	0.01
FGL087 04+50S		1.01	15.9	2.56	6.71	0.10	0.06	0.03	0.021	0.06	9.6	14.1	0.50	275	0.62	0.01
FGL087 05+00S		0.95	15.0	2.47	6.61	0.10	0.06	0.01	0.020	0.06	9.0	12.9	0.44	217	0.64	0.01
FGL087 05+50S		1.16	17.3	2.49	7.15	0.10	0.13	0.01	0.021	0.07	8.2	13.5	0.56	242	0.57	0.01
FGL087 06+50S		1.20	8.8	1.81	4.14	0.12	0.05	0.07	0.014	0.07	11.7	8.6	0.43	202	0.32	0.01
FGL087 07+00S		0.99	15.5	1.80	4.48	0.11	0.06	0.02	0.016	0.05	12.3	8.5	0.36	200	0.39	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL086 08+50S		1.13	10.4	740	5.4	6.1	<0.001	0.04	0.30	3.4	0.4	0.4	98.3	<0.01	<0.01	1.8
FGL086 09+00S		1.57	16.3	540	8.0	8.2	<0.001	0.03	0.43	4.5	0.2	0.5	35.7	0.01	0.01	3.1
FGL086 09+50S		1.97	13.5	240	11.9	9.9	<0.001	0.03	0.43	3.2	0.3	0.5	18.0	<0.01	0.03	2.1
FGL086 10+00S		1.24	8.1	430	229	11.6	<0.001	0.03	6.17	2.6	0.4	0.5	19.8	<0.01	0.01	1.6
FGL086 10+50S		0.66	8.2	1080	253	9.6	<0.001	0.07	3.30	1.6	0.4	0.4	30.4	<0.01	0.01	<0.2
FGL086 11+00S		0.71	8.2	690	7.4	10.0	<0.001	0.04	0.40	1.7	0.3	0.4	22.4	<0.01	0.01	0.2
FGL086 11+50S		1.53	14.6	640	7.5	9.9	<0.001	0.03	0.33	4.1	0.4	0.5	28.5	<0.01	0.01	2.2
FGL086 12+50S		1.29	14.4	880	5.4	7.9	<0.001	0.03	0.20	4.1	0.3	0.5	41.5	0.01	0.02	1.6
FGL086 13+00S		1.46	14.8	750	6.3	10.0	<0.001	0.02	0.22	4.3	0.3	0.5	50.3	0.01	0.01	2.1
FGL086 13+50S		0.76	11.2	520	5.4	10.2	<0.001	0.03	0.22	1.9	0.4	0.5	31.6	<0.01	0.03	<0.2
FGL086 14+00S		0.96	9.4	510	5.5	13.2	<0.001	0.01	0.19	2.1	0.3	0.4	30.3	<0.01	0.01	0.3
FGL086 14+50S		1.56	16.2	720	6.2	12.3	<0.001	<0.01	0.25	4.2	0.3	0.5	36.1	<0.01	0.01	2.1
FGL086 15+00S		1.31	18.3	840	6.7	9.0	<0.001	0.01	0.25	4.9	0.5	0.5	38.0	<0.01	0.01	1.7
FGL086 15+50S		1.71	15.2	480	6.3	7.7	<0.001	0.01	0.22	3.7	0.4	0.6	32.0	<0.01	0.01	1.6
FGL086 16+00S		0.68	8.9	650	5.4	7.7	<0.001	0.01	0.14	2.0	0.3	0.5	41.4	0.01	0.01	<0.2
FGL086 16+50S		1.70	14.7	500	7.3	9.6	<0.001	0.01	0.23	3.6	0.2	0.6	23.5	<0.01	0.01	2.4
FGL086 17+50S		2.25	16.5	340	10.0	11.6	<0.001	0.02	0.42	3.0	0.2	0.8	21.1	<0.01	0.02	1.5
FGL086 18+00S		1.98	16.1	260	7.4	10.1	<0.001	0.02	0.37	2.7	0.2	0.6	20.1	<0.01	0.02	2.1
FGL086 18+50S		1.25	19.4	410	6.5	9.3	0.001	<0.01	0.37	3.4	0.3	0.5	16.1	<0.01	0.02	3.4
FGL086 19+00S		1.46	13.1	360	8.4	11.8	<0.001	<0.01	0.40	3.1	0.3	0.7	35.9	<0.01	0.02	2.4
FGL086 19+50S		1.04	18.1	560	5.6	9.3	<0.001	<0.01	0.32	3.2	0.5	0.4	19.8	<0.01	0.02	1.6
FGL086 20+00S		0.87	9.9	470	6.8	13.1	<0.001	<0.01	0.53	3.5	0.3	0.5	23.6	<0.01	0.02	1.1
FGL086 20+50S		1.14	18.5	470	6.6	9.9	<0.001	<0.01	0.39	3.5	0.3	0.5	23.8	<0.01	0.03	2.1
FGL086 21+00S		0.42	11.7	1140	4.8	8.7	<0.001	<0.01	0.21	5.5	0.4	0.4	54.0	<0.01	0.01	2.9
FGL086 21+50S		1.18	17.3	960	6.4	15.0	<0.001	<0.01	0.33	5.7	0.4	0.6	75.7	0.01	0.02	1.7
FGL086 22+00S		0.64	14.2	1860	4.1	7.3	<0.001	<0.01	0.14	6.3	0.6	0.4	93.0	0.01	0.01	1.8
FGL087 00+00		0.99	9.0	310	10.4	10.2	<0.001	<0.01	0.27	2.6	0.3	0.5	16.1	<0.01	0.03	2.3
FGL087 00+50S		0.40	10.2	840	10.7	8.4	<0.001	<0.01	1.21	4.3	0.5	0.3	24.5	<0.01	0.03	5.8
FGL087 01+00S		1.21	21.2	630	7.4	7.4	<0.001	<0.01	0.47	4.4	0.3	0.5	29.7	0.01	0.03	2.8
FGL087 01+50S		1.28	19.6	550	7.6	9.7	<0.001	<0.01	0.32	4.5	0.3	0.6	25.5	<0.01	0.03	2.0
FGL087 02+00S		1.14	15.6	570	6.0	7.3	<0.001	<0.01	0.22	4.1	0.3	0.5	44.9	0.01	0.03	1.5
FGL087 02+50S		1.11	11.2	430	5.2	5.2	<0.001	<0.01	0.21	2.7	0.3	0.4	30.3	0.01	0.02	1.0
FGL087 03+00S		0.60	10.9	820	7.7	8.3	<0.001	<0.01	0.28	3.1	0.3	0.4	21.3	<0.01	0.01	0.6
FGL087 03+50S		1.25	12.7	570	13.0	13.5	<0.001	<0.01	0.31	2.4	0.2	0.6	12.1	<0.01	0.02	1.1
FGL087 04+00S		0.89	12.6	640	6.9	9.9	<0.001	<0.01	0.33	3.0	0.2	0.5	19.5	<0.01	0.02	1.1
FGL087 04+50S		1.10	17.4	440	6.5	8.7	<0.001	<0.01	0.32	3.4	0.4	0.5	19.4	<0.01	0.02	2.2
FGL087 05+00S		1.14	15.6	450	6.9	9.1	<0.001	<0.01	0.34	3.1	0.2	0.5	18.4	<0.01	0.02	2.2
FGL087 05+50S		0.79	18.8	310	6.6	8.2	<0.001	<0.01	0.33	3.8	0.2	0.5	28.5	<0.01	0.02	2.9
FGL087 06+50S		0.60	11.3	930	5.4	8.0	<0.001	<0.01	0.28	2.9	0.3	0.3	24.1	<0.01	0.02	2.6
FGL087 07+00S		0.91	14.0	520	6.2	7.3	<0.001	<0.01	0.26	3.4	0.5	0.4	19.2	<0.01	0.02	2.8

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL086 08+50S		0.059	0.07	0.49	49	0.10	5.01	49	0.7
FGL086 09+00S		0.070	0.12	0.63	58	0.14	5.96	54	1.0
FGL086 09+50S		0.067	0.11	0.44	60	0.18	3.19	40	0.8
FGL086 10+00S		0.048	0.16	0.49	43	0.14	4.06	86	0.6
FGL086 10+50S		0.033	0.20	0.75	39	0.11	4.58	72	<0.5
FGL086 11+00S		0.052	0.18	0.49	49	0.17	3.46	47	<0.5
FGL086 11+50S		0.076	0.13	0.65	62	0.15	5.07	58	0.7
FGL086 12+50S		0.091	0.09	0.65	60	0.16	5.06	60	0.9
FGL086 13+00S		0.109	0.11	0.53	67	0.18	4.48	63	0.8
FGL086 13+50S		0.066	0.08	0.58	52	0.15	3.79	44	<0.5
FGL086 14+00S		0.074	0.07	0.38	53	0.12	2.92	45	<0.5
FGL086 14+50S		0.097	0.10	0.44	68	0.17	3.80	65	1.4
FGL086 15+00S		0.073	0.10	0.90	62	0.18	8.28	59	1.0
FGL086 15+50S		0.089	0.09	0.46	63	0.21	3.48	51	0.7
FGL086 16+00S		0.048	0.07	0.49	52	0.15	5.10	41	<0.5
FGL086 16+50S		0.057	0.09	0.60	59	0.18	3.79	42	1.2
FGL086 17+50S		0.096	0.14	0.76	70	0.20	2.85	59	1.0
FGL086 18+00S		0.074	0.09	0.73	54	0.15	2.36	41	1.2
FGL086 18+50S		0.077	0.09	0.60	52	0.17	2.83	44	4.0
FGL086 19+00S		0.081	0.09	1.09	59	0.16	2.49	47	2.2
FGL086 19+50S		0.071	0.08	0.57	48	0.16	4.45	42	0.7
FGL086 20+00S		0.044	0.07	0.47	60	0.32	3.58	49	<0.5
FGL086 20+50S		0.080	0.08	0.43	56	0.14	3.51	46	1.3
FGL086 21+00S		0.062	0.06	0.58	66	0.09	6.12	70	0.9
FGL086 21+50S		0.134	0.08	0.41	93	0.17	3.96	72	1.1
FGL086 22+00S		0.146	0.05	0.67	80	0.10	7.40	73	1.0
FGL087 00+00		0.053	0.07	0.41	49	0.16	4.74	50	1.3
FGL087 00+50S		0.013	0.09	1.08	38	0.14	7.19	75	0.8
FGL087 01+00S		0.066	0.07	0.54	59	0.18	4.80	53	2.4
FGL087 01+50S		0.113	0.08	0.44	70	0.29	3.29	63	1.3
FGL087 02+00S		0.102	0.06	0.41	62	0.26	3.29	52	1.1
FGL087 02+50S		0.092	0.06	0.47	51	0.28	2.99	42	0.6
FGL087 03+00S		0.053	0.06	0.54	55	0.11	4.78	64	<0.5
FGL087 03+50S		0.090	0.09	0.30	66	0.17	1.85	53	0.7
FGL087 04+00S		0.079	0.07	0.35	59	0.16	2.81	51	<0.5
FGL087 04+50S		0.087	0.08	0.40	63	0.17	3.24	49	1.3
FGL087 05+00S		0.083	0.09	0.38	59	0.21	2.70	45	1.4
FGL087 05+50S		0.092	0.08	0.39	62	0.28	2.84	50	4.0
FGL087 06+50S		0.063	0.08	0.63	43	0.45	5.17	46	0.9
FGL087 07+00S		0.071	0.07	0.54	42	0.16	6.08	37	1.7

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL087 07+50S		0.71	0.0019	0.08	1.34	5.3	<0.02	<10	120	0.36	0.10	0.29	0.08	18.10	5.9	20
FGL087 08+00S		0.93	0.0073	0.08	1.38	5.9	<0.02	<10	110	0.29	0.11	0.46	0.15	20.7	7.1	20
FGL087 10+00S		0.64	0.0004	1.10	1.54	7.1	<0.02	<10	140	0.30	0.09	0.36	0.14	15.70	6.2	15
FGL087 10+50S		1.03	0.0008	0.04	1.82	8.8	<0.02	<10	150	0.45	0.10	0.47	0.07	22.3	8.3	19
FGL087 11+00S		0.84	0.0022	0.10	1.53	11.2	<0.02	<10	130	0.41	0.11	0.31	0.08	17.55	5.3	18
FGL087 11+50S		0.71	0.0016	0.27	2.26	30.4	<0.02	<10	180	0.57	0.08	0.62	0.07	24.2	7.5	20
FGL087 12+00S		0.53	0.0016	0.05	1.55	6.3	<0.02	<10	100	0.34	0.08	0.29	0.06	13.70	4.5	14
FGL087 12+50S		0.88	0.0016	0.09	2.26	10.5	0.31	<10	140	0.55	0.10	0.53	0.07	20.2	8.6	22
FGL087 13+00S		0.66	0.0009	0.04	1.91	10.8	<0.02	<10	110	0.47	0.12	0.23	0.08	20.3	7.3	24
FGL087 13+50S		0.74	0.0010	0.04	1.90	8.5	<0.02	<10	140	0.43	0.11	0.46	0.09	21.5	9.5	21
FGL087 14+00S		0.76	0.0020	0.04	1.79	8.0	<0.02	<10	140	0.35	0.11	0.39	0.06	18.45	6.2	21
FGL087 14+50S		0.90	0.0011	0.08	1.95	11.4	<0.02	<10	180	0.61	0.11	0.48	0.06	25.8	7.9	22
FGL087 15+00S		0.65	0.0012	0.09	1.82	10.6	<0.02	<10	130	0.45	0.11	0.41	0.11	19.30	7.4	20
FGL087 15+50S		0.73	0.0013	0.04	1.81	28.4	<0.02	<10	170	0.40	0.11	0.35	0.07	21.2	8.9	25
FGL087 16+00S		0.84	0.0023	0.14	1.82	12.3	<0.02	<10	130	0.38	0.17	0.24	0.09	21.1	7.1	25
FGL087 16+50S		0.70	0.0018	0.04	1.92	10.5	<0.02	<10	150	0.36	0.10	0.30	0.07	22.0	7.7	22
FGL087 17+00S		0.77	0.0010	0.02	1.91	12.0	<0.02	<10	140	0.40	0.11	0.22	0.10	19.00	8.3	24
FGL087 17+50S		0.63	0.0010	0.02	1.55	9.4	<0.02	<10	160	0.31	0.11	0.23	0.06	18.30	7.4	22
FGL087 18+00S		0.68	0.0004	0.11	1.71	6.7	<0.02	<10	140	0.32	0.16	0.22	0.14	17.95	8.8	23
FGL087 18+50S		0.60	0.0006	0.04	2.46	8.0	<0.02	<10	140	0.43	0.10	0.35	0.14	19.75	11.7	17
FGL087 19+00S		0.74	0.0010	0.04	2.03	8.0	<0.02	<10	130	0.37	0.11	0.22	0.07	18.95	7.3	22
FGL087 19+50S		0.70	0.0048	0.06	2.16	9.9	<0.02	<10	120	0.38	0.11	0.17	0.08	22.8	8.3	24
FGL087 20+00S		0.79	0.0005	0.07	2.20	10.0	<0.02	<10	140	0.35	0.13	0.22	0.11	18.55	9.3	24
FGL087 20+50S		0.73	0.0009	0.04	2.57	10.0	<0.02	<10	170	0.39	0.09	0.21	0.08	21.3	10.8	24
FGL087 22+00S		0.92	0.0015	0.04	1.68	5.9	<0.02	<10	130	0.36	0.08	0.44	0.06	26.3	7.5	25
FGL087 22+50S		0.96	0.0008	0.02	1.94	5.7	<0.02	<10	100	0.39	0.06	0.61	0.04	22.5	9.2	20
FGL088 00+00		0.42	0.0017	0.05	2.25	10.6	<0.02	<10	140	0.58	0.13	0.33	0.09	22.8	9.2	28
FGL088 00+50N		0.35	0.0014	0.03	2.38	12.6	<0.02	<10	130	0.39	0.16	0.27	0.10	22.1	9.5	31
FGL088 01+00N		0.39	0.0014	0.03	1.95	8.8	<0.02	<10	100	0.29	0.18	0.15	0.08	17.60	6.1	30
FGL088 01+50N		0.36	0.0012	0.04	2.55	10.3	<0.02	<10	130	0.39	0.14	0.24	0.09	18.25	8.7	34
FGL088 02+00N		0.47	0.0009	0.04	2.24	10.4	<0.02	<10	140	0.43	0.13	0.18	0.06	21.2	8.8	29
FGL088 02+50N		0.46	0.0004	0.06	1.73	9.6	<0.02	<10	110	0.35	0.15	0.19	0.06	16.95	8.6	24
FGL088 03+00N		0.42	0.0010	0.05	1.93	9.1	<0.02	<10	130	0.36	0.15	0.17	0.10	17.60	8.0	27
FGL088 03+50N		0.39	0.0016	0.04	1.99	12.7	<0.02	<10	120	0.40	0.14	0.19	0.16	21.2	9.9	28
FGL088 04+00N		0.41	0.0110	0.05	1.52	10.7	<0.02	<10	110	0.24	0.15	0.27	0.07	17.50	7.4	23
FGL088 04+50N		0.32	0.0009	0.07	1.14	4.7	<0.02	<10	110	0.24	0.08	0.14	0.04	12.55	4.1	12
FGL088 05+00N		0.41	0.0005	0.13	1.45	10.8	<0.02	<10	160	0.41	0.12	0.26	0.10	16.30	8.1	19
FGL088 05+50N		0.39	0.0004	0.06	1.61	8.9	<0.02	<10	140	0.46	0.13	0.24	0.11	22.1	8.8	26
FGL088 06+00N		0.42	0.0004	0.06	1.49	6.3	<0.02	<10	90	0.28	0.09	0.19	0.07	15.45	7.8	17
FGL088 06+50N		0.38	0.0029	0.06	1.67	7.3	<0.02	<10	110	0.34	0.10	0.20	0.07	16.90	9.1	20

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL087 07+50S		1.92	15.3	1.73	4.72	0.10	0.03	0.04	0.017	0.06	9.2	8.0	0.32	193	0.38	0.02	
FGL087 08+00S		3.10	9.8	2.03	5.55	0.12	0.05	0.03	0.020	0.06	11.7	11.6	0.52	302	0.36	0.01	
FGL087 10+00S		5.58	15.3	2.02	7.43	0.10	0.03	0.06	0.017	0.05	10.3	9.1	0.43	300	0.54	0.02	
FGL087 10+50S		2.39	10.7	2.44	7.98	0.10	0.04	0.03	0.020	0.07	13.7	14.5	0.59	436	0.39	0.01	
FGL087 11+00S		6.46	11.9	1.91	6.69	0.10	0.03	0.04	0.018	0.06	10.9	10.1	0.39	225	0.45	0.02	
FGL087 11+50S		14.75	12.9	2.09	8.08	0.11	0.05	0.19	0.027	0.08	15.5	12.9	0.50	403	0.29	0.02	
FGL087 12+00S		2.22	9.4	1.63	6.97	0.10	0.03	0.02	0.016	0.06	8.3	7.6	0.35	211	0.40	0.01	
FGL087 12+50S		1.09	11.2	2.56	8.45	0.10	0.06	0.01	0.022	0.09	11.0	15.9	0.62	419	0.45	0.01	
FGL087 13+00S		1.01	12.4	2.64	7.83	0.10	0.04	0.01	0.025	0.07	12.1	15.6	0.53	276	0.74	0.01	
FGL087 13+50S		0.99	14.5	2.61	8.59	0.10	0.04	0.02	0.023	0.07	14.2	16.6	0.68	464	0.52	0.01	
FGL087 14+00S		0.92	10.9	2.15	8.17	0.10	0.04	0.02	0.018	0.04	10.8	13.1	0.51	255	0.48	0.01	
FGL087 14+50S		1.15	16.0	2.20	7.44	0.11	0.03	0.03	0.021	0.06	16.7	13.4	0.51	342	0.46	0.01	
FGL087 15+00S		1.17	17.0	2.33	8.23	0.11	0.04	0.03	0.021	0.07	10.7	11.4	0.50	325	0.53	0.01	
FGL087 15+50S		1.43	14.6	2.46	6.45	0.11	0.05	0.05	0.022	0.08	10.5	13.9	0.59	341	0.48	0.01	
FGL087 16+00S		1.50	15.3	2.46	7.77	0.05	0.03	0.04	0.026	0.06	11.3	14.8	0.51	221	0.72	0.01	
FGL087 16+50S		1.27	13.3	2.23	6.21	<0.05	0.03	0.02	0.021	0.06	9.5	10.8	0.54	273	0.41	0.01	
FGL087 17+00S		2.07	11.3	2.51	7.42	<0.05	0.02	0.11	0.023	0.09	9.3	15.9	0.57	292	0.48	0.01	
FGL087 17+50S		1.24	14.1	2.42	6.09	<0.05	<0.02	0.01	0.022	0.06	8.8	11.8	0.50	273	0.53	0.01	
FGL087 18+00S		2.90	12.7	2.75	9.03	<0.05	0.02	0.02	0.022	0.07	9.4	14.3	0.42	560	0.73	0.01	
FGL087 18+50S		2.77	18.7	2.95	10.30	<0.05	0.02	0.02	0.028	0.07	9.2	15.0	0.67	1000	0.54	0.02	
FGL087 19+00S		1.10	11.1	2.55	7.34	<0.05	0.03	0.02	0.019	0.06	9.3	13.0	0.51	311	0.53	0.01	
FGL087 19+50S		1.34	12.1	2.40	7.26	<0.05	0.02	0.02	0.020	0.07	11.1	13.4	0.52	242	0.53	0.01	
FGL087 20+00S		2.12	16.0	2.83	8.96	<0.05	0.03	0.12	0.027	0.08	9.1	17.7	0.60	351	0.62	0.01	
FGL087 20+50S		1.63	18.1	2.94	9.36	<0.05	0.02	0.10	0.028	0.07	9.1	16.8	0.75	398	0.49	0.01	
FGL087 22+00S		0.75	11.0	2.30	7.02	0.05	0.02	0.02	0.020	0.06	15.2	13.5	0.59	216	0.28	0.01	
FGL087 22+50S		0.80	8.4	2.68	8.66	0.06	0.03	0.02	0.021	0.05	12.6	13.0	0.73	427	0.26	0.01	
FGL088 00+00		1.20	17.5	2.94	8.80	<0.05	0.02	0.02	0.024	0.09	11.5	16.1	0.62	348	0.70	0.01	
FGL088 00+50N		1.38	16.5	3.73	9.52	<0.05	0.03	0.01	0.032	0.10	10.7	20.6	0.62	304	1.00	0.01	
FGL088 01+00N		1.12	13.3	2.71	8.32	<0.05	0.03	0.01	0.023	0.05	9.1	12.1	0.36	263	0.96	0.01	
FGL088 01+50N		1.26	13.0	2.90	8.05	<0.05	0.03	0.03	0.025	0.06	9.4	16.8	0.56	324	1.03	0.01	
FGL088 02+00N		1.57	17.5	2.55	7.20	<0.05	0.04	0.04	0.026	0.07	10.6	14.6	0.51	242	0.70	0.01	
FGL088 02+50N		1.39	18.1	2.88	8.72	<0.05	0.03	0.01	0.020	0.06	8.6	13.7	0.46	340	0.96	0.01	
FGL088 03+00N		1.37	20.2	2.49	7.26	<0.05	0.03	0.02	0.023	0.06	8.5	13.6	0.41	281	0.69	0.01	
FGL088 03+50N		1.40	16.7	2.54	7.16	<0.05	0.04	0.02	0.025	0.07	10.9	15.7	0.51	340	0.67	0.01	
FGL088 04+00N		1.45	11.8	2.60	7.34	<0.05	0.02	0.02	0.020	0.06	9.2	14.8	0.57	329	0.69	0.01	
FGL088 04+50N		1.05	11.0	1.30	4.62	<0.05	<0.02	0.02	0.010	0.05	6.8	6.7	0.21	184	0.36	0.02	
FGL088 05+00N		1.25	19.4	2.25	7.37	<0.05	0.02	0.02	0.019	0.07	9.9	9.4	0.36	478	0.76	0.02	
FGL088 05+50N		0.99	20.3	2.44	7.71	<0.05	0.02	0.02	0.021	0.07	13.4	11.1	0.46	398	1.04	0.01	
FGL088 06+00N		0.86	8.6	2.11	6.65	<0.05	0.02	0.02	0.017	0.06	8.9	13.2	0.40	401	0.53	0.01	
FGL088 06+50N		0.96	10.0	2.33	7.47	<0.05	0.02	0.02	0.019	0.06	9.8	14.8	0.46	460	0.62	0.01	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL087 07+50S		0.68	11.8	580	7.8	9.0	<0.001	<0.01	0.27	3.0	0.4	0.3	22.9	<0.01	0.01	0.8	
FGL087 08+00S		0.92	11.0	1050	12.0	10.3	<0.001	<0.01	0.35	3.1	0.4	0.4	25.6	<0.01	0.01	2.3	
FGL087 10+00S		0.57	8.7	650	44.4	11.0	<0.001	<0.01	0.98	2.0	0.4	0.4	25.8	<0.01	0.01	0.3	
FGL087 10+50S		0.88	10.7	870	5.6	11.9	<0.001	<0.01	0.19	3.6	0.2	0.5	28.3	<0.01	0.01	1.8	
FGL087 11+00S		0.71	10.0	530	6.0	11.9	<0.001	<0.01	0.25	2.3	0.3	0.4	22.2	<0.01	0.02	0.4	
FGL087 11+50S		0.55	13.1	1270	21.0	10.8	<0.001	0.01	0.67	4.0	0.6	0.4	47.6	<0.01	0.01	1.5	
FGL087 12+00S		0.71	7.5	420	4.2	9.3	<0.001	<0.01	0.16	2.1	0.2	0.4	27.5	0.01	0.01	0.5	
FGL087 12+50S		1.12	14.0	560	5.7	12.2	<0.001	<0.01	0.21	4.2	0.3	0.5	41.7	0.01	0.02	2.7	
FGL087 13+00S		1.23	12.8	460	5.8	12.6	<0.001	<0.01	0.31	3.4	0.3	0.5	18.4	<0.01	0.02	1.9	
FGL087 13+50S		0.95	12.6	830	5.6	14.0	<0.001	<0.01	0.18	3.7	0.4	0.5	30.8	<0.01	0.01	1.8	
FGL087 14+00S		1.13	11.1	410	6.1	6.3	<0.001	<0.01	0.19	3.6	0.4	0.5	32.5	0.01	0.01	1.8	
FGL087 14+50S		0.72	14.0	670	6.4	9.7	<0.001	<0.01	0.22	3.3	0.4	0.4	36.0	<0.01	0.02	0.7	
FGL087 15+00S		0.87	13.1	630	6.5	12.7	<0.001	<0.01	0.27	2.9	0.4	0.5	34.0	0.01	0.02	0.6	
FGL087 15+50S		1.02	17.0	750	5.8	13.2	<0.001	<0.01	0.33	3.7	0.3	0.5	23.3	<0.01	0.01	2.2	
FGL087 16+00S		1.58	15.1	500	8.2	11.8	<0.001	0.01	0.41	3.7	0.4	0.6	20.4	<0.01	0.04	2.2	
FGL087 16+50S		1.08	15.9	480	5.9	7.8	<0.001	0.01	0.33	3.4	0.4	0.4	26.9	0.01	0.02	2.2	
FGL087 17+00S		1.06	15.3	400	7.2	14.0	<0.001	0.01	0.44	3.8	0.3	0.5	20.0	<0.01	0.02	2.4	
FGL087 17+50S		1.06	14.9	390	5.5	7.2	<0.001	0.01	0.32	3.0	0.2	0.4	19.2	<0.01	0.02	1.6	
FGL087 18+00S		1.38	11.4	550	7.7	22.3	<0.001	0.01	0.34	2.9	0.3	0.6	24.1	<0.01	0.02	1.3	
FGL087 18+50S		1.15	11.2	770	6.3	11.9	<0.001	0.01	0.26	3.9	0.2	0.5	30.8	<0.01	0.01	1.3	
FGL087 19+00S		1.18	13.3	480	5.8	9.9	<0.001	0.01	0.27	3.0	0.2	0.4	22.4	<0.01	0.02	1.5	
FGL087 19+50S		1.18	16.9	380	6.0	10.8	<0.001	0.01	0.35	3.5	0.3	0.5	18.9	<0.01	0.02	2.0	
FGL087 20+00S		1.36	15.7	520	6.9	13.1	<0.001	0.01	0.39	3.6	0.3	0.5	24.4	<0.01	0.02	2.0	
FGL087 20+50S		1.09	18.3	430	5.8	9.5	<0.001	0.01	0.35	3.9	0.3	0.5	29.1	<0.01	0.02	1.8	
FGL087 22+00S		0.86	12.4	1080	5.0	8.6	<0.001	0.01	0.18	3.7	0.3	0.4	26.8	<0.01	0.01	1.4	
FGL087 22+50S		0.80	10.1	1400	4.9	7.0	<0.001	0.01	0.19	3.8	0.3	0.4	36.9	<0.01	0.01	2.3	
FGL088 00+00		1.37	16.0	770	7.0	12.3	<0.001	0.01	0.29	3.9	0.4	0.5	27.7	<0.01	0.02	1.7	
FGL088 00+50N		1.92	17.0	820	8.1	12.5	<0.001	0.01	0.41	3.9	0.4	0.6	23.1	0.01	0.03	2.3	
FGL088 01+00N		1.88	12.1	370	9.2	11.6	<0.001	0.01	0.38	3.1	0.4	0.7	16.4	0.01	0.03	2.2	
FGL088 01+50N		1.75	15.7	440	7.3	9.3	<0.001	0.01	0.33	4.1	0.4	0.5	26.0	0.01	0.02	2.4	
FGL088 02+00N		1.44	17.8	360	7.0	10.1	<0.001	0.01	0.34	4.0	0.3	0.5	18.7	<0.01	0.03	2.7	
FGL088 02+50N		1.67	13.6	350	8.2	10.9	<0.001	0.01	0.32	3.0	0.3	0.5	20.0	<0.01	0.02	1.8	
FGL088 03+00N		1.55	15.2	360	7.1	11.2	<0.001	0.01	0.33	3.2	0.3	0.5	19.9	<0.01	0.02	2.1	
FGL088 03+50N		1.48	18.2	520	6.8	14.1	<0.001	0.01	0.35	4.0	0.3	0.5	18.1	<0.01	0.03	2.5	
FGL088 04+00N		1.21	13.3	640	6.2	11.3	<0.001	0.01	0.26	3.2	0.2	0.5	19.9	<0.01	0.02	1.8	
FGL088 04+50N		0.46	6.3	380	3.4	10.1	<0.001	0.02	0.13	1.2	0.2	0.3	14.4	<0.01	0.01	<0.2	
FGL088 05+00N		1.05	11.5	360	6.1	14.6	<0.001	0.01	0.22	2.8	0.3	0.4	25.0	<0.01	0.02	0.9	
FGL088 05+50N		1.18	16.3	420	5.7	16.1	<0.001	0.02	0.26	3.1	0.3	0.6	23.0	<0.01	0.02	1.0	
FGL088 06+00N		1.09	10.5	460	4.7	12.3	<0.001	0.01	0.20	2.4	0.2	0.4	19.2	<0.01	0.02	1.3	
FGL088 06+50N		1.26	12.4	480	5.3	13.2	<0.001	0.01	0.24	2.8	0.2	0.4	21.1	<0.01	0.02	1.5	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL087 07+50S		0.060	0.08	0.64	40	0.12	5.67	43	0.5
FGL087 08+00S		0.086	0.11	0.60	49	0.20	5.07	69	1.0
FGL087 10+00S		0.070	0.10	0.53	56	0.13	3.66	62	<0.5
FGL087 10+50S		0.100	0.09	0.67	61	0.11	4.59	63	0.6
FGL087 11+00S		0.061	0.08	0.56	50	0.11	3.65	47	<0.5
FGL087 11+50S		0.036	0.10	1.01	49	0.11	4.92	70	0.6
FGL087 12+00S		0.048	0.06	0.44	41	0.10	2.19	40	<0.5
FGL087 12+50S		0.090	0.09	0.54	60	0.11	3.61	64	1.3
FGL087 13+00S		0.102	0.09	0.56	67	0.14	3.66	52	0.9
FGL087 13+50S		0.104	0.11	0.72	66	0.12	4.02	68	0.7
FGL087 14+00S		0.078	0.09	0.50	59	0.13	3.96	49	0.8
FGL087 14+50S		0.061	0.09	0.73	54	0.44	7.16	52	<0.5
FGL087 15+00S		0.087	0.09	0.52	59	0.16	3.88	58	0.5
FGL087 15+50S		0.086	0.14	0.49	57	0.16	4.20	57	1.0
FGL087 16+00S		0.084	0.12	0.53	59	0.18	4.47	51	1.0
FGL087 16+50S		0.079	0.08	0.41	52	0.15	3.90	48	1.0
FGL087 17+00S		0.061	0.08	0.41	56	0.15	3.26	52	0.9
FGL087 17+50S		0.065	0.06	0.37	54	0.15	3.00	44	0.6
FGL087 18+00S		0.102	0.09	0.44	69	0.14	3.25	71	0.7
FGL087 18+50S		0.103	0.06	0.36	71	0.10	3.62	67	0.6
FGL087 19+00S		0.106	0.06	0.36	63	0.13	3.30	49	1.0
FGL087 19+50S		0.101	0.08	0.43	58	0.14	3.34	47	0.9
FGL087 20+00S		0.107	0.07	0.41	67	0.16	3.08	59	1.0
FGL087 20+50S		0.104	0.07	0.44	67	0.11	3.29	65	0.9
FGL087 22+00S		0.116	0.07	0.63	60	0.12	5.78	52	0.6
FGL087 22+50S		0.129	0.05	0.51	66	0.10	4.81	69	0.9
FGL088 00+00		0.122	0.09	0.58	72	0.19	4.63	58	0.7
FGL088 00+50N		0.134	0.10	0.49	81	0.22	3.71	61	1.3
FGL088 01+00N		0.107	0.11	0.46	74	0.20	2.46	43	1.1
FGL088 01+50N		0.108	0.08	0.54	70	0.22	3.49	53	1.2
FGL088 02+00N		0.092	0.09	0.50	61	0.17	3.70	48	1.6
FGL088 02+50N		0.118	0.09	0.42	78	0.20	2.91	50	1.2
FGL088 03+00N		0.090	0.08	0.46	64	0.15	2.82	56	1.3
FGL088 03+50N		0.085	0.09	0.49	59	0.17	3.75	58	1.4
FGL088 04+00N		0.099	0.08	0.44	66	0.14	3.36	52	0.8
FGL088 04+50N		0.046	0.05	0.38	33	0.09	2.42	29	<0.5
FGL088 05+00N		0.082	0.07	0.44	67	0.17	3.24	47	0.6
FGL088 05+50N		0.092	0.08	0.60	67	0.17	3.98	55	0.6
FGL088 06+00N		0.085	0.07	0.38	55	0.13	2.52	43	0.7
FGL088 06+50N		0.092	0.08	0.42	59	0.16	2.90	49	0.8

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL088 07+00N		0.26	0.0009	0.05	0.93	3.5	<0.02	<10	50	0.20	0.07	0.12	0.03	9.99	3.3	10
FGL088 07+50N		0.38	0.0023	0.08	1.51	8.3	<0.02	<10	100	0.40	0.15	0.16	0.09	19.00	6.3	22
FGL088 08+00N		0.37	0.0007	0.11	1.02	4.6	0.19	<10	60	0.21	0.12	0.13	0.06	10.65	3.9	15
FGL088 08+50N		0.36	0.0006	0.03	2.05	9.3	<0.02	<10	120	0.44	0.13	0.24	0.08	27.5	9.7	22
FGL088 09+00N		0.62	0.0011	0.03	1.78	7.4	<0.02	<10	170	0.41	0.13	0.34	0.07	19.85	6.5	21
FGL088 09+50N		0.43	0.0003	0.05	1.02	6.0	<0.02	<10	110	0.44	0.13	0.26	0.11	25.3	4.6	12
FGL088 10+00N		0.51	0.0012	0.04	1.26	5.8	<0.02	<10	110	0.26	0.15	0.19	0.09	19.20	5.2	22
FGL088 10+50N		0.48	0.0017	0.02	2.05	8.9	<0.02	<10	130	0.35	0.15	0.13	0.13	14.55	6.9	26
FGL088 11+00N		0.53	0.0010	0.02	1.44	7.7	<0.02	<10	120	0.49	0.17	0.18	0.13	20.2	6.3	23
FGL088 11+50N		0.58	0.0013	0.06	1.61	7.3	<0.02	<10	180	0.67	0.18	0.30	0.12	29.4	7.6	20
FGL088 12+00N		0.56	0.0005	0.22	0.84	3.8	<0.02	<10	120	0.42	0.08	0.14	0.10	17.70	4.6	8
FGL088 12+50N		0.72	0.0009	0.05	1.36	6.5	<0.02	<10	140	0.41	0.10	0.39	0.08	18.85	6.8	17
FGL088 13+00N		0.52	0.0012	0.11	1.75	7.4	<0.02	<10	190	0.62	0.07	0.64	0.11	19.30	6.4	14
FGL088 14+00N		0.46	0.0003	0.06	0.77	2.6	<0.02	<10	80	0.26	0.06	0.20	0.05	9.67	4.0	9
FGL088 14+50N		0.61	0.0060	0.05	2.02	9.1	<0.02	<10	140	0.47	0.09	0.69	0.06	18.10	9.1	16
FGL088 15+00N		0.62	0.0006	0.06	1.55	13.3	<0.02	<10	200	0.81	0.14	0.73	0.10	53.4	11.5	15
FGL088 15+50N		0.63	0.0017	0.03	1.04	4.1	<0.02	<10	120	0.23	0.09	0.29	0.06	15.85	6.8	16
FGL088 16+00N		0.67	0.0009	0.08	1.33	6.1	<0.02	<10	200	0.53	0.11	0.56	0.11	30.8	6.0	23
FGL088 17+00N		0.45	0.0004	0.04	1.59	9.8	<0.02	<10	180	0.43	0.12	0.49	0.09	23.9	8.5	24
FGL088 17+50N		0.55	0.0012	0.08	1.28	7.6	<0.02	<10	180	0.35	0.09	0.34	0.06	17.05	6.6	19
FGL088 18+00N		0.44	<0.0001	0.01	1.82	12.9	<0.02	<10	180	0.44	0.07	0.51	0.04	18.75	10.0	21
FGL088 18+50N		0.39	0.0013	0.11	2.86	9.8	<0.02	<10	310	1.24	0.09	1.02	0.06	39.2	7.5	31
FGL088 19+00N		0.48	0.0007	0.05	3.04	17.5	<0.02	<10	180	0.48	0.11	0.82	0.09	15.40	8.9	19
FGL088 19+50N		0.45	0.0028	0.05	1.53	7.8	<0.02	<10	180	0.52	0.24	0.20	0.08	26.2	6.4	23
FGL088 20+00N		0.42	0.0005	0.04	1.68	7.9	<0.02	<10	160	0.32	0.14	0.20	0.05	17.50	6.8	26
FGL088 20+50N		0.48	0.0004	0.03	0.87	6.6	<0.02	<10	80	0.20	0.10	0.13	0.08	14.55	5.4	12
FGL088 21+00N		0.51	0.0003	0.05	2.58	19.6	<0.02	<10	300	0.93	0.14	0.64	0.08	23.5	8.1	21
FGL088 21+50N		0.53	0.0004	0.03	1.54	13.8	<0.02	<10	220	0.76	0.10	0.36	0.07	33.8	7.6	16

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL088 07+00N		0.56	8.3	1.27	4.10	<0.05	<0.02	0.01	0.010	0.04	5.4	5.7	0.16	134	0.37	0.02
FGL088 07+50N		1.22	15.2	2.23	7.43	<0.05	0.02	0.02	0.018	0.06	10.9	11.0	0.41	262	0.81	0.01
FGL088 08+00N		0.78	8.5	1.63	5.06	<0.05	<0.02	0.01	0.013	0.05	5.8	8.4	0.27	136	0.52	0.01
FGL088 08+50N		6.84	10.5	3.15	10.40	<0.05	0.02	0.01	0.027	0.10	15.8	17.5	0.71	383	0.67	0.01
FGL088 09+00N		7.89	13.1	2.19	6.67	<0.05	<0.02	0.01	0.020	0.07	11.6	12.6	0.54	291	0.53	0.04
FGL088 09+50N		2.82	8.7	1.73	4.27	<0.05	<0.02	0.01	0.021	0.08	15.2	6.1	0.17	306	0.61	0.01
FGL088 10+00N		2.16	8.2	1.93	6.26	<0.05	0.02	0.01	0.016	0.06	11.6	11.5	0.36	203	0.61	0.01
FGL088 10+50N		3.33	12.9	2.18	6.14	<0.05	0.03	0.01	0.023	0.08	7.4	14.9	0.39	335	0.59	0.01
FGL088 11+00N		5.23	10.7	1.94	5.16	<0.05	0.02	0.02	0.021	0.07	10.0	12.3	0.38	421	0.55	0.01
FGL088 11+50N		17.85	12.8	2.25	6.80	0.05	<0.02	0.02	0.027	0.09	21.1	14.7	0.42	445	0.53	0.01
FGL088 12+00N		13.80	13.0	1.13	4.31	0.05	<0.02	0.06	0.015	0.05	13.7	5.3	0.13	381	0.31	0.02
FGL088 12+50N		5.92	10.0	2.05	5.83	<0.05	<0.02	0.02	0.021	0.06	11.1	11.7	0.46	378	0.37	0.01
FGL088 13+00N		3.82	13.1	1.97	7.07	<0.05	<0.02	0.02	0.021	0.06	10.7	12.1	0.44	508	0.27	0.02
FGL088 14+00N		1.32	7.7	1.01	3.83	<0.05	<0.02	0.02	0.010	0.03	5.4	4.3	0.16	231	0.27	0.02
FGL088 14+50N		1.13	9.5	2.40	9.51	<0.05	<0.02	0.02	0.023	0.06	9.6	15.1	0.63	466	0.40	0.01
FGL088 15+00N		5.70	9.6	3.54	6.95	0.08	0.02	0.02	0.056	0.09	25.5	11.3	0.40	1170	0.44	0.01
FGL088 15+50N		1.03	9.8	1.54	4.16	<0.05	<0.02	0.01	0.013	0.05	7.9	7.3	0.30	433	0.36	0.02
FGL088 16+00N		1.44	17.2	1.90	5.76	0.05	0.03	0.04	0.024	0.04	16.3	10.1	0.38	217	0.42	0.01
FGL088 17+00N		0.93	9.6	2.50	6.62	<0.05	0.02	0.02	0.024	0.09	11.4	12.6	0.59	579	0.94	0.01
FGL088 17+50N		0.86	9.0	1.97	5.21	<0.05	0.04	0.04	0.019	0.07	10.3	10.3	0.42	337	0.43	0.01
FGL088 18+00N		1.96	7.0	2.97	8.14	<0.05	0.04	0.02	0.026	0.07	7.8	19.6	0.75	611	1.06	0.01
FGL088 18+50N		1.62	22.3	2.31	9.70	0.08	0.07	0.04	0.028	0.07	30.4	14.5	0.51	304	0.39	0.02
FGL088 19+00N		3.17	17.0	2.39	10.35	<0.05	0.04	0.01	0.024	0.12	6.9	15.3	0.49	500	0.56	0.01
FGL088 19+50N		1.18	13.0	2.30	6.71	<0.05	0.04	0.01	0.020	0.07	17.0	10.7	0.37	242	0.71	0.01
FGL088 20+00N		0.88	9.3	2.40	6.73	<0.05	0.05	0.01	0.020	0.07	9.3	13.3	0.44	264	0.64	0.01
FGL088 20+50N		1.15	5.4	1.55	6.30	<0.05	0.02	0.01	0.011	0.06	8.8	6.5	0.29	569	0.57	0.01
FGL088 21+00N		2.51	11.7	3.27	11.20	<0.05	0.04	0.01	0.025	0.10	13.2	21.8	0.49	301	0.73	0.01
FGL088 21+50N		0.92	10.2	2.23	6.37	<0.05	<0.02	0.01	0.023	0.08	16.6	13.1	0.43	527	0.38	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL088 07+00N		0.73	4.9	440	3.0	7.9	<0.001	0.01	0.13	1.4	0.2	0.2	12.3	<0.01	0.01	0.7
FGL088 07+50N		1.35	11.6	430	7.5	18.3	<0.001	0.01	0.26	2.9	0.2	0.5	16.2	<0.01	0.02	1.5
FGL088 08+00N		0.88	7.6	330	3.9	9.8	<0.001	0.01	0.19	1.7	0.2	0.3	11.3	<0.01	0.02	0.7
FGL088 08+50N		1.12	11.5	460	6.5	20.6	<0.001	0.01	0.23	5.0	0.3	0.6	25.0	<0.01	0.02	2.3
FGL088 09+00N		0.87	11.7	440	7.1	10.7	<0.001	0.01	0.21	3.0	0.3	0.4	38.3	<0.01	0.01	1.2
FGL088 09+50N		0.52	6.7	520	24.7	13.0	<0.001	0.01	0.34	2.1	0.3	0.3	21.4	<0.01	0.01	1.1
FGL088 10+00N		1.28	9.8	170	8.6	11.6	<0.001	<0.01	0.19	2.9	0.3	0.5	19.2	<0.01	0.01	1.9
FGL088 10+50N		1.44	14.5	170	15.6	10.5	<0.001	0.01	0.24	2.8	0.2	0.5	17.2	<0.01	0.02	2.4
FGL088 11+00N		1.22	12.5	180	15.4	11.3	<0.001	0.01	0.24	2.7	0.2	0.4	20.4	<0.01	0.02	2.3
FGL088 11+50N		0.95	10.7	500	12.2	19.9	<0.001	0.01	0.31	4.9	0.4	0.5	26.7	<0.01	0.01	3.0
FGL088 12+00N		0.33	4.5	440	10.8	9.3	<0.001	0.01	0.25	1.7	0.5	0.3	16.3	<0.01	<0.01	<0.2
FGL088 12+50N		0.78	9.0	800	7.2	8.9	<0.001	0.01	0.30	3.2	0.3	0.4	25.8	<0.01	0.01	0.9
FGL088 13+00N		0.70	7.9	980	12.9	7.7	<0.001	0.01	0.21	3.8	0.4	0.3	47.9	0.01	<0.01	1.0
FGL088 14+00N		0.31	4.4	370	3.4	6.3	<0.001	0.02	0.10	0.9	0.2	0.2	17.4	<0.01	<0.01	<0.2
FGL088 14+50N		0.89	9.3	1010	7.5	7.6	<0.001	0.01	0.16	4.2	0.2	0.4	54.7	0.01	0.01	1.0
FGL088 15+00N		0.50	9.7	1760	12.3	12.0	<0.001	0.01	1.38	10.2	0.5	0.6	33.4	<0.01	<0.01	2.3
FGL088 15+50N		0.87	9.1	510	7.8	8.3	<0.001	0.01	0.20	2.5	0.2	0.3	21.3	<0.01	0.01	1.1
FGL088 16+00N		0.69	11.1	1020	9.1	6.2	<0.001	0.02	0.34	5.1	0.5	0.4	42.7	<0.01	0.01	1.5
FGL088 17+00N		0.83	13.4	530	6.0	6.7	<0.001	0.01	0.75	3.6	0.3	0.4	31.7	<0.01	0.01	1.6
FGL088 17+50N		0.92	10.8	420	5.0	8.0	<0.001	0.01	0.33	3.5	0.3	0.4	21.3	<0.01	0.01	1.9
FGL088 18+00N		0.40	12.4	910	6.3	7.3	<0.001	0.01	0.16	4.1	0.2	0.5	25.2	<0.01	0.01	2.2
FGL088 18+50N		1.35	13.4	530	5.9	4.9	<0.001	0.02	0.22	8.7	0.6	0.5	67.5	0.01	0.01	1.8
FGL088 19+00N		1.24	12.8	600	6.8	9.0	<0.001	0.01	0.25	4.0	0.2	0.5	105.5	0.01	0.01	1.9
FGL088 19+50N		1.50	12.0	290	7.3	10.1	<0.001	0.01	0.30	3.5	0.5	0.5	20.1	<0.01	0.02	2.1
FGL088 20+00N		1.41	12.1	290	6.8	8.0	<0.001	0.01	0.25	3.4	0.3	0.6	17.6	<0.01	0.01	2.1
FGL088 20+50N		1.09	5.5	280	5.7	12.7	<0.001	0.01	0.16	1.9	0.2	0.4	12.5	<0.01	0.01	2.2
FGL088 21+00N		1.29	12.9	500	11.6	9.6	<0.001	0.01	0.38	4.9	0.4	0.6	50.9	0.01	0.02	2.4
FGL088 21+50N		0.74	8.7	620	9.9	7.9	<0.001	<0.01	0.15	3.0	0.3	0.4	19.1	<0.01	<0.01	2.7

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL088 07+00N		0.056	0.04	0.28	36	0.10	1.68	22	0.6
FGL088 07+50N		0.088	0.09	0.57	59	0.17	3.04	47	0.7
FGL088 08+00N		0.070	0.06	0.33	45	0.11	1.82	33	<0.5
FGL088 08+50N		0.101	0.11	0.57	79	0.12	4.92	71	0.7
FGL088 09+00N		0.057	0.08	0.67	52	0.09	4.39	51	<0.5
FGL088 09+50N		0.015	0.09	0.76	34	0.10	5.98	89	<0.5
FGL088 10+00N		0.079	0.08	0.47	53	0.16	4.58	40	0.7
FGL088 10+50N		0.062	0.08	0.40	49	0.17	2.30	56	1.1
FGL088 11+00N		0.058	0.09	0.62	45	0.13	3.88	48	0.7
FGL088 11+50N		0.052	0.37	1.19	53	0.11	10.95	65	<0.5
FGL088 12+00N		0.025	0.22	0.92	28	0.08	10.40	32	<0.5
FGL088 12+50N		0.065	0.10	0.65	51	0.13	6.79	59	<0.5
FGL088 13+00N		0.058	0.05	0.72	48	0.09	6.65	63	<0.5
FGL088 14+00N		0.033	0.05	0.39	28	0.06	3.79	29	<0.5
FGL088 14+50N		0.082	0.05	0.62	63	0.20	4.84	74	<0.5
FGL088 15+00N		0.023	0.12	1.55	60	0.07	16.05	107	0.5
FGL088 15+50N		0.059	0.06	0.41	38	0.12	4.44	40	0.5
FGL088 16+00N		0.041	0.06	1.04	50	0.10	11.05	52	0.9
FGL088 17+00N		0.044	0.05	0.45	55	0.11	4.48	68	0.5
FGL088 17+50N		0.053	0.05	0.43	46	0.15	4.94	44	1.4
FGL088 18+00N		0.015	0.04	0.57	49	0.08	4.74	73	0.9
FGL088 18+50N		0.084	0.05	1.48	60	0.28	12.65	45	1.9
FGL088 19+00N		0.058	0.05	0.43	52	0.13	3.63	54	1.2
FGL088 19+50N		0.080	0.08	0.62	59	0.26	6.61	40	1.2
FGL088 20+00N		0.088	0.09	0.40	62	0.15	3.67	43	1.7
FGL088 20+50N		0.061	0.05	0.36	45	0.10	3.00	38	0.5
FGL088 21+00N		0.048	0.07	0.75	68	0.13	7.52	65	1.5
FGL088 21+50N		0.027	0.07	0.50	46	0.12	7.31	53	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 10- SEP- 2017
This copy reported on
12- OCT- 2017
Account: NOFREG

CERTIFICATE WH17164323

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 183 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Finalized Date: 10- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E443941		6.70	0.030	<0.2	1.12	14	<10	150	<0.5	2	1.36	<0.5	10	11	149	3.29
E443942		6.61	0.012	0.2	1.30	2	<10	140	<0.5	3	1.04	<0.5	8	14	131	3.12
E443943		6.52	0.024	0.3	1.03	22	<10	180	0.5	5	1.60	<0.5	10	12	170	3.49
E443944		6.79	0.401	0.9	1.19	19	<10	90	<0.5	17	1.61	<0.5	11	13	404	3.72
E443945		6.78	0.048	0.8	1.42	<2	<10	130	<0.5	10	1.09	<0.5	10	13	188	3.45
E443946		6.79	0.033	<0.2	1.33	<2	<10	260	<0.5	4	1.14	<0.5	9	12	104	3.19
E443947		6.47	0.113	<0.2	0.80	15	<10	260	0.7	<2	2.14	<0.5	9	9	115	2.90
E443948		6.52	0.016	0.2	0.91	22	<10	110	0.5	8	1.39	<0.5	9	11	174	3.06
E443949		6.87	0.087	<0.2	1.16	72	<10	100	<0.5	5	1.22	<0.5	10	13	181	3.45
E443950		0.34	<0.005	<0.2	0.02	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	1	0.09
E444351		6.39	0.031	0.6	0.56	38	<10	70	0.8	22	2.84	<0.5	12	8	328	3.55
E444352		6.52	0.006	<0.2	1.27	2	<10	240	<0.5	4	1.28	<0.5	10	15	102	3.44
E444353		6.66	<0.005	<0.2	1.23	<2	<10	300	<0.5	3	1.17	<0.5	9	13	65	2.98
E444354		6.67	0.029	0.2	1.25	<2	<10	220	<0.5	4	1.10	<0.5	11	14	172	3.32
E444355		6.39	1.990	1.0	0.57	10	<10	90	0.6	17	2.30	<0.5	9	8	340	3.24
E444356		6.75	0.007	<0.2	0.70	16	<10	220	0.6	2	2.36	<0.5	9	8	92	2.83
E444357		10.67	0.006	<0.2	1.07	2	<10	320	<0.5	2	0.87	<0.5	8	11	58	2.61
E444358		3.35	<0.005	<0.2	0.86	62	<10	430	0.6	2	2.83	<0.5	9	10	47	3.12
E444359		6.78	0.034	<0.2	0.98	93	<10	290	<0.5	2	1.05	<0.5	9	13	97	2.95
E444360		0.06	0.319	2.8	1.73	29	10	70	<0.5	2	0.85	2.2	11	32	2610	4.66
E444361		6.46	0.110	<0.2	0.79	29	<10	120	0.6	<2	1.92	<0.5	11	10	152	3.36
E444362		6.50	0.008	<0.2	1.10	33	<10	200	<0.5	<2	1.30	<0.5	9	13	106	3.24
E444363		6.76	0.010	<0.2	1.26	58	<10	180	<0.5	<2	1.36	<0.5	12	13	148	3.63
E444364		7.03	0.493	<0.2	1.27	22	<10	300	<0.5	17	0.90	<0.5	10	13	139	3.17
E444365		6.77	0.006	<0.2	0.98	54	<10	260	<0.5	<2	1.08	<0.5	9	13	93	2.95
E444366		6.69	0.006	<0.2	1.07	11	<10	310	<0.5	<2	1.00	<0.5	10	14	108	3.22
E444367		6.87	0.079	0.2	0.94	32	<10	230	0.5	2	1.27	<0.5	10	12	142	3.18
E444368		6.33	0.042	0.2	0.81	21	<10	110	0.5	3	0.97	<0.5	12	12	223	3.34
E444369		6.92	0.012	<0.2	0.55	32	<10	110	0.6	<2	1.47	<0.5	10	9	153	3.25
E444370		0.21	<0.005	<0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	3	0.14
E444371		6.90	0.024	0.3	0.69	57	<10	140	0.6	9	1.63	<0.5	10	11	122	3.10
E444372		6.11	0.713	0.2	0.83	57	<10	200	<0.5	41	1.29	<0.5	8	13	112	2.69
E444373		6.76	0.019	0.2	0.87	26	<10	210	<0.5	2	1.28	<0.5	12	12	190	3.45
E444374		6.44	0.013	0.3	0.60	89	<10	580	0.8	3	3.84	<0.5	10	9	110	3.10
E444375		6.36	0.006	<0.2	0.37	188	<10	110	0.9	2	7.1	<0.5	5	5	69	2.58
E444376		6.74	0.010	<0.2	0.50	88	<10	310	0.9	2	2.35	<0.5	10	7	136	3.13
E444377		6.66	0.006	<0.2	0.48	56	<10	290	1.0	3	4.14	<0.5	11	9	109	3.29
E444378		6.47	<0.005	<0.2	0.90	7	<10	260	<0.5	<2	1.32	<0.5	11	14	101	3.34
E444379		6.51	<0.005	<0.2	1.18	14	<10	290	<0.5	2	1.24	<0.5	11	14	133	3.49
E444380		0.06	0.330	2.7	1.72	29	10	60	<0.5	2	0.85	2.2	11	29	2560	4.60

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443941		10	<1	0.57	20	0.92	227	3	0.09	7	920	3	0.73	<2	6	73
E443942		10	<1	0.63	20	0.98	210	1	0.09	6	920	<2	0.57	<2	6	54
E443943		<10	<1	0.53	20	1.02	294	2	0.08	7	1030	6	0.89	<2	6	96
E443944		10	<1	0.40	20	1.08	231	2	0.06	6	970	4	1.10	<2	7	80
E443945		10	<1	0.70	20	1.07	211	1	0.09	6	990	6	0.72	<2	7	51
E443946		10	<1	0.64	20	0.93	254	1	0.10	6	940	<2	0.49	<2	5	57
E443947		<10	<1	0.43	20	1.02	269	1	0.06	6	900	5	0.40	<2	6	119
E443948		<10	<1	0.44	20	0.81	211	9	0.08	6	870	2	0.61	<2	7	91
E443949		10	<1	0.55	30	0.98	182	9	0.10	6	920	3	0.72	<2	7	86
E443950		<10	<1	0.01	<10	0.69	87	<1	0.01	<1	70	<2	0.01	<2	<1	96
E444351		<10	<1	0.22	20	1.18	248	6	0.05	7	910	6	1.08	2	7	135
E444352		10	<1	0.65	20	1.07	297	2	0.09	6	1000	3	0.50	<2	8	93
E444353		10	<1	0.70	20	0.89	297	1	0.11	6	980	3	0.33	<2	5	71
E444354		10	<1	0.66	20	0.97	244	12	0.10	7	960	2	0.66	<2	7	71
E444355		<10	<1	0.24	20	0.90	286	6	0.05	6	860	5	1.11	<2	5	129
E444356		<10	<1	0.35	20	1.02	290	1	0.06	6	900	5	0.61	2	5	116
E444357		<10	<1	0.66	20	0.78	286	1	0.10	5	890	2	0.30	<2	4	51
E444358		<10	<1	0.33	20	1.22	433	1	0.07	6	900	5	0.23	<2	7	162
E444359		<10	<1	0.56	20	0.78	318	3	0.10	6	920	3	0.38	<2	6	82
E444360		<10	<1	0.30	<10	0.59	789	252	0.06	23	750	76	2.32	2	2	57
E444361		<10	<1	0.31	30	0.92	284	28	0.06	6	900	4	0.88	2	7	107
E444362		10	<1	0.54	30	0.88	284	1	0.09	6	980	2	0.50	<2	6	95
E444363		10	<1	0.63	20	0.97	314	2	0.09	7	960	4	0.71	<2	7	94
E444364		10	<1	0.72	20	0.90	215	2	0.10	6	960	3	0.58	<2	5	59
E444365		<10	<1	0.51	20	0.77	290	1	0.09	6	860	2	0.50	2	6	81
E444366		<10	<1	0.61	20	0.79	309	18	0.11	6	970	3	0.46	<2	6	77
E444367		<10	<1	0.46	20	0.76	316	1	0.08	6	900	2	0.60	<2	7	97
E444368		<10	<1	0.41	20	0.73	194	1	0.07	6	780	3	0.97	<2	6	61
E444369		<10	<1	0.24	20	0.71	250	5	0.06	6	830	4	0.82	<2	6	91
E444370		<10	1	0.01	<10	0.52	92	<1	0.01	<1	80	<2	0.01	<2	<1	93
E444371		<10	<1	0.28	20	0.78	336	5	0.07	6	940	6	0.49	<2	7	100
E444372		<10	<1	0.47	20	0.78	253	4	0.08	6	910	4	0.39	<2	7	77
E444373		<10	<1	0.48	20	0.82	306	22	0.08	7	910	5	0.84	<2	7	84
E444374		<10	1	0.24	20	1.42	409	1	0.05	7	870	40	0.53	6	7	193
E444375		<10	<1	0.14	10	2.88	319	16	0.03	3	460	6	0.45	8	5	209
E444376		<10	<1	0.16	20	1.07	285	34	0.03	6	830	9	0.76	8	7	176
E444377		<10	<1	0.17	20	1.77	627	1	0.03	6	840	9	0.75	3	8	204
E444378		<10	<1	0.43	20	0.96	371	332	0.09	7	970	2	0.57	<2	8	82
E444379		10	<1	0.65	20	1.04	310	5	0.10	7	960	3	0.71	<2	8	78
E444380		<10	<1	0.30	<10	0.58	780	256	0.06	20	740	74	2.28	<2	2	56

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E443941		<20	0.13	<10	10	68	20	18
E443942		<20	0.16	<10	10	74	<10	18
E443943		<20	0.12	<10	10	68	10	23
E443944		<20	0.06	<10	<10	68	<10	25
E443945		<20	0.17	<10	10	83	<10	19
E443946		<20	0.16	<10	<10	75	10	19
E443947		<20	0.08	<10	<10	49	<10	21
E443948		<20	0.08	<10	<10	59	<10	18
E443949		<20	0.06	<10	<10	68	<10	17
E443950		<20	<0.01	<10	<10	<1	<10	<2
E444351		<20	0.01	<10	10	36	<10	25
E444352		<20	0.14	<10	10	81	<10	21
E444353		<20	0.18	<10	<10	74	10	19
E444354		<20	0.14	<10	<10	76	<10	19
E444355		<20	0.01	<10	10	32	<10	25
E444356		<20	0.06	<10	<10	41	<10	20
E444357		<20	0.18	<10	<10	65	10	19
E444358		<20	0.07	<10	<10	56	<10	26
E444359		<20	0.14	<10	<10	66	<10	24
E444360		<20	0.05	<10	<10	33	<10	457
E444361		<20	0.04	<10	<10	51	<10	19
E444362		20	0.12	<10	<10	69	<10	21
E444363		<20	0.12	<10	<10	72	<10	23
E444364		<20	0.19	<10	<10	76	10	17
E444365		20	0.13	<10	10	64	10	20
E444366		<20	0.15	<10	<10	69	10	22
E444367		20	0.10	<10	<10	63	<10	23
E444368		20	0.06	<10	10	52	<10	17
E444369		20	0.02	<10	10	42	<10	17
E444370		<20	<0.01	<10	<10	1	<10	<2
E444371		<20	0.04	<10	<10	55	10	26
E444372		20	0.10	<10	<10	60	90	19
E444373		20	0.09	<10	<10	60	<10	22
E444374		20	0.01	<10	<10	42	<10	24
E444375		<20	<0.01	<10	<10	22	<10	14
E444376		20	<0.01	<10	<10	30	<10	20
E444377		20	<0.01	<10	<10	36	<10	23
E444378		<20	0.08	<10	<10	63	10	24
E444379		<20	0.14	<10	<10	75	<10	21
E444380		<20	0.05	<10	<10	32	<10	445

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444381		6.59	<0.005	<0.2	1.32	10	<10	400	<0.5	<2	0.97	<0.5	9	15	72	3.07
E444382		7.26	0.005	<0.2	1.31	8	<10	370	<0.5	2	1.06	<0.5	11	14	75	3.29
E444383		6.57	<0.005	<0.2	1.22	26	<10	230	0.5	2	1.79	<0.5	11	15	69	3.38
E444384		6.75	0.006	<0.2	1.38	21	<10	310	<0.5	<2	1.37	<0.5	11	15	122	3.20
E444385		5.91	0.005	<0.2	1.37	27	<10	300	<0.5	2	1.42	<0.5	10	14	75	3.05
E444386		6.35	<0.005	<0.2	1.33	13	<10	360	<0.5	<2	1.24	<0.5	9	13	71	2.99
E444387		6.74	0.006	<0.2	1.40	88	<10	250	<0.5	<2	1.49	<0.5	11	16	108	3.32
E444388		8.04	<0.005	<0.2	1.40	7	<10	360	<0.5	2	1.24	<0.5	10	16	85	3.19
E444389		4.38	4.97	4.2	0.36	3050	<10	140	0.5	274	0.13	<0.5	1	15	141	11.30
E444390		0.26	<0.005	<0.2	0.02	<2	<10	20	<0.5	5	>25.0	<0.5	<1	2	1	0.13
E444391		9.24	1.065	2.0	0.77	804	<10	160	0.7	32	0.11	<0.5	5	27	292	11.75
E444392		8.52	0.580	1.8	0.46	641	<10	360	0.5	10	0.08	<0.5	3	17	227	5.86
E444393		9.56	0.484	1.0	0.52	314	<10	350	0.5	7	0.06	<0.5	6	23	227	4.23
E444394		9.16	0.286	1.3	0.89	538	<10	200	0.7	8	0.23	<0.5	11	35	601	4.23
E444395		8.61	0.227	0.6	1.18	216	<10	40	0.5	4	0.11	<0.5	6	41	444	3.22
E444396		8.53	0.259	1.1	1.82	281	<10	60	0.7	9	0.32	<0.5	11	56	780	3.73
E444397		5.43	0.318	2.1	1.63	28	<10	40	0.5	10	0.34	<0.5	21	77	1310	4.21
E444398		9.08	0.247	2.2	1.16	78	<10	30	0.7	5	0.21	<0.5	15	40	1555	3.87
E444399		10.53	0.291	2.5	0.90	58	<10	20	0.8	40	0.23	<0.5	16	33	1445	4.15
E444400		0.06	0.333	2.6	1.70	29	10	60	<0.5	2	0.83	2.2	11	30	2580	4.62
E444401		9.27	0.099	0.9	0.63	192	<10	20	0.5	9	0.04	<0.5	7	22	732	1.93
E444402		9.47	0.222	1.5	1.20	157	<10	40	0.8	14	0.11	<0.5	11	34	907	2.65
E444403		8.18	0.173	2.7	0.64	228	<10	30	0.6	10	0.20	<0.5	19	20	1895	3.96
E444404		9.16	0.077	1.9	0.95	373	<10	40	0.8	6	0.35	<0.5	15	41	995	4.00
E444405		10.13	0.116	2.0	0.93	99	<10	60	0.6	5	0.40	<0.5	18	69	1165	4.61
E444406		11.23	0.088	1.5	0.72	90	<10	40	0.6	6	0.56	<0.5	12	29	815	3.17
E444407		9.05	0.114	1.4	0.57	80	<10	50	0.5	15	0.52	<0.5	9	24	678	2.27
E444408		9.02	0.169	1.2	0.73	102	<10	110	0.5	29	0.59	<0.5	10	25	603	2.79
E444409		10.88	0.155	2.6	0.37	101	<10	50	0.5	3	0.54	<0.5	20	21	1380	4.01
E444410		0.28	<0.005	<0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	<1	2	5	0.09
E444411		9.62	0.240	5.4	0.48	450	<10	30	0.5	11	0.55	<0.5	26	26	2630	4.37
E444412		10.24	0.202	3.4	0.57	927	<10	40	0.6	11	0.58	<0.5	19	27	1785	4.48
E444413		10.11	0.166	2.1	0.47	268	<10	30	<0.5	7	0.65	<0.5	9	24	1055	1.79
E444414		9.83	0.104	1.1	0.75	402	<10	50	0.5	5	0.70	<0.5	8	31	703	2.04
E444415		10.66	0.055	1.0	0.99	557	<10	50	0.5	3	0.41	<0.5	7	36	545	2.05
E444416		10.56	0.264	0.9	0.54	90	<10	50	<0.5	14	0.49	<0.5	6	26	543	1.69
E444417		9.88	0.386	0.5	0.44	465	<10	40	<0.5	7	0.45	<0.5	6	22	324	1.85
E444418		10.33	0.416	0.6	0.84	314	<10	50	<0.5	16	0.32	<0.5	9	32	392	2.33
E444419		9.41	0.082	0.6	0.17	115	<10	10	<0.5	30	0.36	<0.5	3	16	311	0.98
E444420		0.06	0.336	2.7	1.69	29	<10	60	<0.5	<2	0.83	2.2	11	30	2510	4.55

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444381		<10	<1	0.72	20	0.92	360	4	0.11	7	940	3	0.37	<2	6	65
E444382		10	<1	0.74	20	0.93	373	2	0.11	7	980	10	0.47	<2	6	70
E444383		<10	<1	0.48	30	0.98	449	9	0.06	7	970	4	0.38	<2	8	99
E444384		10	<1	0.70	20	1.00	340	40	0.10	13	930	8	0.53	<2	7	79
E444385		10	<1	0.67	20	0.98	403	33	0.09	6	870	3	0.40	2	6	106
E444386		10	<1	0.68	20	0.96	370	9	0.10	6	890	3	0.38	<2	6	79
E444387		10	<1	0.53	20	0.88	396	8	0.08	7	890	4	0.54	<2	7	92
E444388		10	<1	0.72	20	1.01	394	2	0.11	6	930	3	0.43	<2	7	74
E444389		10	<1	0.37	30	0.04	102	5	0.07	3	1110	8	0.91	3	6	101
E444390		<10	1	<0.01	<10	0.49	87	<1	<0.01	1	70	<2	0.01	<2	<1	91
E444391		10	<1	0.48	30	0.20	152	2	0.09	10	920	5	0.93	7	3	167
E444392		<10	<1	0.23	10	0.10	149	3	0.02	11	540	4	0.36	9	2	62
E444393		<10	<1	0.28	20	0.21	141	6	0.02	15	640	2	0.41	7	4	78
E444394		10	<1	0.30	20	0.32	161	2	0.06	24	740	2	0.95	8	5	76
E444395		10	<1	0.40	20	0.39	89	2	0.05	15	380	4	0.55	2	4	62
E444396		10	<1	0.53	20	0.64	105	2	0.08	29	580	6	0.96	<2	6	55
E444397		10	<1	0.56	20	0.84	99	2	0.07	48	810	4	1.81	<2	7	23
E444398		10	<1	0.48	20	0.55	74	1	0.05	25	770	4	1.73	<2	5	15
E444399		10	<1	0.33	20	0.49	93	2	0.04	23	770	4	1.76	2	4	13
E444400		<10	<1	0.30	<10	0.58	769	239	0.06	23	750	78	2.29	<2	2	56
E444401		<10	<1	0.31	10	0.17	61	2	0.01	20	190	9	0.30	4	2	9
E444402		<10	<1	0.69	20	0.49	114	2	0.02	35	370	5	0.41	5	3	7
E444403		<10	<1	0.28	10	0.26	119	3	0.03	27	330	3	1.65	12	3	8
E444404		10	<1	0.48	30	0.60	108	3	0.03	30	670	2	1.65	9	5	20
E444405		10	<1	0.59	20	0.74	131	3	0.03	35	820	4	1.92	9	5	24
E444406		<10	<1	0.39	20	0.59	94	3	0.03	19	390	5	1.13	3	4	43
E444407		<10	<1	0.30	20	0.46	79	2	0.03	14	200	2	0.79	3	2	38
E444408		<10	<1	0.39	30	0.52	81	2	0.05	11	470	4	1.15	2	4	39
E444409		<10	<1	0.21	20	0.35	84	4	0.03	15	270	4	2.12	<2	2	30
E444410		<10	<1	<0.01	<10	0.50	86	<1	0.01	<1	70	<2	0.02	<2	<1	92
E444411		<10	<1	0.29	20	0.48	117	1	0.02	28	440	2	2.19	12	4	37
E444412		<10	<1	0.30	20	0.48	83	1	0.03	25	310	3	2.10	9	3	33
E444413		<10	<1	0.20	10	0.35	73	1	0.04	12	200	6	0.77	<2	2	42
E444414		<10	<1	0.39	20	0.55	84	3	0.02	19	350	4	0.66	3	2	48
E444415		<10	<1	0.55	20	0.64	80	1	0.03	17	340	3	0.57	4	3	26
E444416		<10	<1	0.32	20	0.41	97	2	0.03	15	190	8	0.52	<2	2	40
E444417		<10	<1	0.30	20	0.41	90	2	0.03	14	180	5	0.66	2	1	47
E444418		<10	<1	0.60	20	0.59	96	1	0.02	22	260	5	0.75	<2	2	36
E444419		<10	<1	0.12	10	0.21	72	2	0.01	6	120	4	0.33	<2	<1	41
E444420		<10	<1	0.29	<10	0.57	756	235	0.06	21	730	75	2.26	3	2	55

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444381		<20	0.19	<10	<10	77	<10	26
E444382		<20	0.19	<10	<10	79	<10	26
E444383		20	0.10	<10	<10	69	<10	30
E444384		<20	0.17	<10	<10	79	<10	27
E444385		<20	0.16	<10	<10	78	<10	25
E444386		20	0.18	<10	<10	77	<10	24
E444387		<20	0.13	<10	<10	76	<10	26
E444388		20	0.19	<10	<10	83	<10	28
E444389		<20	0.03	<10	<10	29	<10	19
E444390		<20	<0.01	<10	<10	<1	<10	<2
E444391		<20	0.02	<10	<10	57	<10	23
E444392		<20	0.01	<10	<10	27	<10	23
E444393		<20	0.01	<10	<10	45	<10	24
E444394		<20	0.03	<10	<10	39	<10	25
E444395		<20	0.05	<10	<10	34	<10	16
E444396		<20	0.08	<10	<10	50	<10	18
E444397		<20	0.11	<10	<10	62	<10	21
E444398		<20	0.05	<10	<10	35	<10	18
E444399		<20	0.03	<10	<10	32	<10	22
E444400		<20	0.04	<10	<10	32	<10	447
E444401		<20	0.02	<10	<10	11	<10	16
E444402		<20	0.06	<10	<10	26	<10	23
E444403		<20	0.02	<10	<10	24	<10	24
E444404		<20	0.05	<10	<10	37	<10	17
E444405		<20	0.05	<10	<10	30	<10	20
E444406		<20	0.03	<10	<10	27	<10	14
E444407		<20	0.02	<10	<10	17	<10	11
E444408		<20	0.03	<10	<10	27	<10	13
E444409		<20	0.01	<10	<10	12	90	15
E444410		<20	<0.01	<10	<10	<1	<10	<2
E444411		<20	0.02	<10	<10	24	<10	26
E444412		<20	0.02	<10	<10	19	<10	15
E444413		<20	0.01	<10	<10	14	<10	27
E444414		<20	0.03	<10	<10	17	<10	20
E444415		<20	0.05	<10	<10	26	<10	13
E444416		<20	0.02	<10	<10	12	<10	19
E444417		<20	0.02	<10	<10	9	<10	10
E444418		<20	0.05	<10	<10	18	<10	12
E444419		<20	<0.01	<10	<10	2	<10	10
E444420		<20	0.04	<10	<10	32	<10	436

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444421		10.46	0.240	1.3	0.51	109	<10	30	<0.5	11	0.52	<0.5	7	23	746	1.66
E444422		10.38	1.105	1.3	1.12	101	<10	40	0.7	9	0.85	<0.5	16	34	920	3.25
E444423		5.11	0.378	1.1	1.78	202	<10	30	1.0	17	0.92	<0.5	16	57	708	4.76
E444424		4.52	0.467	6.7	0.70	305	<10	10	0.6	2100	3.30	0.7	7	20	753	1.92
E444425		5.16	0.216	0.6	0.56	273	<10	20	0.6	34	1.48	<0.5	4	22	243	1.32
E444426		5.11	0.221	2.7	0.90	256	<10	30	0.8	10	0.86	<0.5	16	39	1655	3.69
E444427		4.93	0.147	0.7	1.25	85	<10	40	0.8	5	0.94	<0.5	11	48	548	3.28
E444428		5.32	<0.005	0.5	1.17	31	<10	40	0.6	8	0.53	<0.5	9	48	342	2.61
E444429		10.82	0.075	0.6	1.23	35	<10	50	0.7	7	0.77	<0.5	9	41	425	2.73
E444430		0.35	<0.005	<0.2	0.03	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	3	0.08
E444431		8.99	0.101	0.8	2.07	21	<10	50	0.9	23	1.01	<0.5	14	57	631	3.81
I027056		5.89	0.031	<0.2	1.11	9	<10	220	<0.5	<2	1.12	<0.5	8	12	105	2.57
I027057		5.73	0.012	<0.2	1.08	16	<10	250	<0.5	<2	1.34	<0.5	9	12	98	2.82
I027058		5.46	0.010	<0.2	1.15	10	<10	240	<0.5	<2	0.75	<0.5	9	14	109	2.57
I027059		5.87	0.010	<0.2	0.89	81	<10	210	<0.5	<2	0.85	<0.5	9	11	120	2.62
I027060		0.06	0.328	2.6	1.74	28	10	70	<0.5	<2	0.84	2.3	10	30	2520	4.44
I027061		5.68	0.027	0.3	0.93	254	<10	80	0.5	<2	1.09	<0.5	10	11	236	3.05
I027062		6.22	0.191	1.0	0.88	100	<10	100	<0.5	21	1.16	0.5	7	11	306	2.70
I027063		5.76	0.009	0.2	1.05	7	<10	230	<0.5	<2	0.74	<0.5	8	17	103	2.46
I027064		5.71	0.013	0.2	1.08	38	<10	230	<0.5	2	0.83	<0.5	8	13	114	2.57
I027065		5.86	0.031	0.2	1.08	4	<10	130	<0.5	<2	0.74	<0.5	9	13	192	2.64
I027066		5.55	0.031	0.3	0.83	167	<10	90	<0.5	<2	0.98	<0.5	9	11	220	2.80
I027067		6.24	0.013	0.2	0.81	469	<10	100	0.6	2	1.07	<0.5	8	10	92	2.60
I027068		4.40	0.042	0.9	0.48	368	<10	40	0.5	3	2.02	<0.5	7	6	314	2.24
I027069		4.97	0.019	1.0	0.45	245	<10	30	0.5	<2	1.84	<0.5	8	5	271	2.43
I027070		0.25	<0.005	<0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	3	0.11
I027071		5.29	0.024	0.7	0.63	327	<10	30	0.5	<2	2.05	<0.5	9	8	320	2.49
I027072		5.43	0.031	0.7	0.71	208	<10	50	0.5	<2	1.74	<0.5	8	9	341	2.58
I027073		3.55	0.026	0.7	0.61	729	<10	40	0.5	<2	1.08	<0.5	8	9	349	2.56
I027074		1.94	0.074	0.7	0.64	104	<10	40	0.5	2	1.25	<0.5	10	9	358	2.63
I027075		6.35	0.025	0.7	0.64	61	<10	60	<0.5	<2	1.20	<0.5	9	11	381	2.51
I027076		5.53	0.059	1.0	0.52	732	<10	60	<0.5	2	1.02	<0.5	30	9	793	4.80
I027077		5.82	0.074	0.9	0.49	355	<10	40	0.5	2	1.05	<0.5	27	8	804	4.56
I027078		5.70	0.039	0.2	0.59	261	<10	30	0.7	<2	1.03	<0.5	11	10	297	2.99
I027079		5.90	0.036	<0.2	0.81	110	<10	190	<0.5	<2	0.95	<0.5	9	11	153	2.77
I027080		0.06	0.327	2.8	1.79	28	10	70	<0.5	2	0.85	2.3	11	30	2560	4.49
I027081		6.46	0.046	0.2	0.82	200	<10	130	<0.5	3	1.07	<0.5	9	12	230	2.70
I027082		5.53	0.024	0.2	0.98	92	<10	90	<0.5	2	0.84	<0.5	15	12	387	3.38
I027083		5.25	0.015	0.2	0.76	280	<10	90	0.5	<2	1.06	<0.5	12	11	310	2.86
I027084		5.34	0.018	0.2	1.06	451	<10	70	0.7	2	1.30	<0.5	12	10	308	3.29

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
E444421		<10	<1	0.34	10	0.43	80	3	0.02	17	190	5	0.58	6	1	46
E444422		<10	<1	0.61	20	0.71	75	5	0.03	26	430	3	1.49	5	3	31
E444423		10	<1	0.53	20	1.11	106	1	0.08	20	1060	2	1.64	6	8	52
E444424		<10	<1	0.22	10	0.64	94	2	0.02	9	550	199	0.73	38	3	87
E444425		<10	<1	0.23	10	0.38	68	2	0.02	10	250	4	0.38	6	2	159
E444426		10	<1	0.44	30	0.72	112	3	0.03	26	330	5	1.51	6	6	51
E444427		10	<1	0.64	20	0.96	86	10	0.04	25	870	3	1.31	5	8	36
E444428		10	<1	0.59	10	0.72	86	3	0.04	28	260	6	0.82	2	5	25
E444429		10	<1	0.43	20	0.54	84	2	0.06	22	220	8	1.07	2	3	37
E444430		<10	1	0.01	<10	0.46	86	<1	0.02	<1	90	<2	<0.01	<2	<1	99
E444431		10	<1	0.63	20	0.83	77	1	0.16	30	450	3	1.49	3	6	54
I027056		<10	<1	0.43	20	0.71	299	1	0.08	5	730	2	0.26	2	5	46
I027057		<10	<1	0.43	20	0.79	352	3	0.07	5	770	2	0.31	<2	5	52
I027058		10	<1	0.49	20	0.77	218	3	0.08	5	800	3	0.34	<2	4	35
I027059		<10	<1	0.42	20	0.66	294	1	0.08	6	770	2	0.29	<2	5	45
I027060		<10	1	0.30	<10	0.57	771	250	0.06	22	730	77	2.16	2	2	56
I027061		<10	<1	0.35	30	0.77	233	2	0.05	5	790	3	0.70	3	5	47
I027062		<10	<1	0.37	20	0.71	256	2	0.06	5	760	12	0.49	4	5	44
I027063		<10	<1	0.52	30	0.72	222	1	0.09	6	790	3	0.25	<2	4	37
I027064		<10	<1	0.55	20	0.72	219	1	0.09	6	760	4	0.34	2	4	41
I027065		10	1	0.60	20	0.75	172	1	0.09	5	730	3	0.55	<2	5	35
I027066		<10	1	0.34	20	0.69	200	2	0.06	6	720	6	0.63	3	5	41
I027067		<10	<1	0.23	20	0.58	213	1	0.05	6	740	4	0.39	4	5	56
I027068		<10	1	0.13	30	0.67	152	5	0.01	3	880	5	0.79	14	3	115
I027069		<10	<1	0.11	30	0.63	185	7	0.01	4	920	7	0.80	8	3	80
I027070		<10	<1	0.01	<10	0.47	90	<1	0.01	<1	70	<2	0.02	<2	<1	92
I027071		<10	<1	0.10	30	0.73	127	7	0.01	4	970	4	0.83	10	3	56
I027072		<10	<1	0.12	40	0.68	150	2	0.02	4	990	4	0.81	4	3	72
I027073		<10	1	0.11	40	0.47	138	9	0.04	4	1040	3	0.87	2	3	64
I027074		<10	1	0.11	40	0.53	148	3	0.03	4	1000	4	0.89	2	3	75
I027075		<10	1	0.13	40	0.57	105	3	0.03	4	950	4	0.82	<2	3	73
I027076		<10	<1	0.18	30	0.71	144	5	0.04	9	810	3	1.97	8	6	45
I027077		<10	1	0.13	30	0.57	149	2	0.03	7	870	3	1.96	6	5	45
I027078		<10	<1	0.10	30	0.49	204	4	0.04	6	770	3	0.84	3	6	55
I027079		<10	<1	0.38	20	0.68	242	1	0.07	6	740	3	0.49	<2	6	53
I027080		<10	1	0.31	<10	0.58	784	256	0.07	22	740	78	2.17	2	2	58
I027081		<10	1	0.34	20	0.68	187	4	0.05	6	720	2	0.55	<2	5	58
I027082		10	<1	0.44	30	0.81	144	2	0.06	6	790	3	1.13	<2	6	44
I027083		<10	<1	0.28	30	0.64	150	1	0.05	6	720	3	0.81	<2	5	62
I027084		<10	<1	0.22	30	0.80	135	10	0.03	6	800	4	0.79	<2	6	94

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
E444421		<20	0.02	<10	<10	9	<10	19
E444422		<20	0.05	<10	<10	27	<10	14
E444423		<20	0.07	<10	<10	70	10	14
E444424		<20	0.01	<10	<10	20	<10	29
E444425		<20	0.01	<10	<10	13	<10	9
E444426		<20	0.04	<10	<10	42	10	46
E444427		<20	0.07	<10	<10	63	<10	12
E444428		<20	0.07	<10	<10	38	<10	13
E444429		<20	0.05	<10	<10	26	<10	17
E444430		<20	<0.01	<10	<10	<1	<10	<2
E444431		<20	0.09	<10	<10	51	<10	14
I027056		20	0.11	<10	<10	58	10	22
I027057		20	0.11	<10	<10	58	20	23
I027058		<20	0.15	<10	<10	61	<10	18
I027059		<20	0.10	<10	<10	54	<10	23
I027060		<20	0.05	<10	<10	32	<10	445
I027061		20	0.06	<10	<10	54	<10	19
I027062		20	0.07	<10	10	47	<10	42
I027063		20	0.15	<10	10	59	<10	17
I027064		20	0.15	<10	<10	59	10	19
I027065		20	0.14	<10	<10	58	<10	17
I027066		20	0.06	<10	<10	47	<10	21
I027067		20	0.04	<10	<10	41	<10	21
I027068		<20	<0.01	<10	<10	11	<10	16
I027069		<20	<0.01	<10	<10	14	<10	21
I027070		<20	<0.01	<10	<10	<1	<10	2
I027071		<20	<0.01	<10	<10	19	<10	21
I027072		<20	<0.01	<10	<10	23	<10	21
I027073		<20	<0.01	<10	<10	24	<10	21
I027074		<20	<0.01	<10	<10	25	<10	22
I027075		<20	0.01	<10	<10	28	<10	20
I027076		20	0.01	<10	10	41	<10	23
I027077		20	0.01	<10	<10	37	<10	21
I027078		20	<0.01	<10	<10	40	<10	20
I027079		20	0.08	<10	<10	52	<10	19
I027080		<20	0.05	<10	<10	33	<10	447
I027081		20	0.06	<10	<10	49	<10	20
I027082		20	0.07	<10	<10	54	<10	19
I027083		20	0.03	<10	<10	43	<10	20
I027084		20	0.02	<10	<10	37	<10	20

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I027085		5.21	0.027	0.3	0.60	351	<10	70	0.5	6	1.74	<0.5	10	9	230	2.52
I027086		5.33	0.039	1.1	1.21	129	<10	70	0.8	9	1.49	<0.5	11	9	352	3.51
I027087		5.19	0.065	0.4	1.18	76	<10	90	0.9	5	1.24	<0.5	12	10	258	2.65
I027088		5.71	0.083	0.6	0.87	102	<10	60	0.9	5	2.71	<0.5	11	8	364	3.23
I027089		4.33	0.019	0.4	0.64	27	<10	30	0.9	<2	3.89	0.8	7	7	124	2.87
I027090		0.30	<0.005	<0.2	0.04	<2	<10	30	<0.5	5	>25.0	<0.5	<1	1	5	0.13
I027091		5.63	0.006	0.2	0.83	18	<10	100	0.7	2	1.97	<0.5	8	8	73	2.14
I027092		6.02	0.010	0.2	1.89	33	<10	70	1.4	<2	1.47	<0.5	8	10	149	3.40
I027093		4.22	0.072	1.0	0.51	49	<10	30	0.6	3	3.60	0.5	7	9	210	2.93
I027094		4.80	0.011	0.4	0.61	164	<10	30	0.7	<2	2.38	<0.5	11	6	260	3.47
I027095		5.22	0.005	<0.2	0.59	43	<10	30	0.7	2	1.70	<0.5	7	6	95	2.67
I027096		4.14	<0.005	0.2	0.61	43	<10	200	0.7	<2	2.69	<0.5	7	6	79	2.20
I027097		5.62	<0.005	<0.2	0.96	19	<10	80	0.8	2	1.18	<0.5	7	11	58	2.66
I027098		5.01	<0.005	0.2	0.73	26	<10	60	0.7	<2	2.23	<0.5	6	9	91	2.32
I027099		3.60	0.008	0.3	1.24	57	<10	30	0.9	<2	1.47	<0.5	9	9	159	3.00
I027100		0.06	0.325	2.7	1.72	28	10	60	<0.5	2	0.85	2.2	11	30	2570	4.64
I027101		3.80	0.007	0.3	0.80	49	<10	30	0.6	2	1.56	<0.5	7	5	115	2.30
I027102		5.71	0.009	0.3	0.62	74	<10	30	0.8	<2	1.81	<0.5	13	5	226	3.13
I027103		5.58	0.009	0.2	0.54	27	<10	30	0.7	2	1.32	<0.5	9	6	141	2.67
I027104		5.65	<0.005	<0.2	0.75	38	<10	40	0.7	<2	1.57	<0.5	8	6	75	2.43
I027105		5.09	<0.005	<0.2	1.16	8	<10	50	0.8	<2	2.28	<0.5	6	6	49	2.29
I027106		5.25	0.005	<0.2	1.37	21	<10	50	0.8	<2	2.47	<0.5	8	8	84	2.75
I027107		5.31	0.012	<0.2	0.88	12	<10	20	0.8	<2	2.42	<0.5	8	5	99	2.60
I027108		5.68	0.005	<0.2	0.69	27	<10	20	0.7	<2	2.19	<0.5	7	5	93	2.33
I027109		5.72	0.009	0.2	1.42	65	<10	110	0.7	<2	1.15	<0.5	8	9	132	3.28
I027110		0.29	<0.005	<0.2	0.03	<2	<10	20	<0.5	5	>25.0	<0.5	<1	1	2	0.13
I027111		5.83	0.018	0.3	1.11	298	<10	60	0.8	<2	1.75	<0.5	10	7	209	2.93
I027112		5.32	0.010	0.2	1.17	67	<10	80	<0.5	<2	1.11	<0.5	7	9	101	2.59
I027113		5.82	0.060	<0.2	1.08	63	<10	70	0.5	<2	1.51	<0.5	7	9	104	2.58
I027114		2.86	0.138	0.2	0.71	97	<10	20	0.9	3	2.52	<0.5	9	4	199	2.83
I027115		0.35	<0.005	<0.2	0.02	<2	<10	20	<0.5	5	>25.0	<0.5	<1	1	1	0.10
I027116		5.35	0.012	<0.2	1.07	33	<10	90	<0.5	<2	0.83	<0.5	8	11	128	2.59
I027117		5.58	0.024	0.2	1.10	51	<10	80	0.6	2	1.02	<0.5	10	8	188	2.75
I027118		3.34	0.028	0.4	0.65	157	<10	40	0.6	2	0.97	<0.5	7	3	228	1.99
I027119		5.23	0.055	0.4	0.65	163	<10	120	0.6	2	1.37	<0.5	11	3	286	2.08
I027120		0.06	0.758	3.0	1.22	15	<10	120	<0.5	4	0.80	<0.5	10	49	7920	2.61
I027121		3.54	0.037	0.5	0.81	80	<10	130	0.7	3	1.39	<0.5	8	4	253	2.46
I027122		4.51	0.082	1.7	0.71	33	<10	160	0.8	3	1.84	<0.5	12	4	703	3.06
I027123		5.51	0.028	0.2	0.52	29	<10	30	0.9	3	3.33	<0.5	8	4	160	3.06
I027124		5.73	0.015	0.3	0.88	123	<10	80	0.9	3	1.60	<0.5	11	6	160	2.73

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I027085		<10	<1	0.07	30	0.61	193	1	0.01	6	770	7	0.70	4	6	78
I027086		<10	<1	0.11	30	0.74	170	1	0.01	6	770	35	0.91	3	6	74
I027087		<10	<1	0.15	30	0.59	184	1	0.01	6	810	8	0.68	<2	6	71
I027088		<10	<1	0.16	20	1.12	244	1	0.01	8	690	11	0.94	<2	5	117
I027089		<10	<1	0.12	20	1.42	370	1	0.01	5	580	47	0.52	3	4	124
I027090		<10	<1	0.01	<10	0.44	90	<1	0.01	<1	80	<2	0.03	<2	<1	89
I027091		<10	<1	0.07	30	0.67	200	1	<0.01	6	780	9	0.30	<2	6	80
I027092		10	<1	0.15	20	0.85	167	1	0.01	6	780	8	0.48	2	5	96
I027093		<10	<1	0.07	30	1.25	375	2	<0.01	5	690	45	0.35	2	5	127
I027094		<10	<1	0.07	40	0.95	373	6	<0.01	6	910	8	0.63	2	7	98
I027095		<10	<1	0.07	30	0.64	316	4	<0.01	4	690	7	0.33	<2	5	72
I027096		<10	<1	0.08	20	0.79	212	<1	<0.01	4	660	7	0.33	3	5	114
I027097		<10	<1	0.14	20	0.57	223	5	0.03	6	750	7	0.23	2	6	85
I027098		<10	<1	0.11	20	0.70	250	1	0.02	5	710	7	0.27	<2	5	113
I027099		10	<1	0.09	30	0.77	155	2	0.02	4	790	5	0.50	2	5	83
I027100		<10	<1	0.30	<10	0.58	774	240	0.06	21	750	78	2.31	<2	2	96
I027101		<10	<1	0.11	30	0.59	135	12	<0.01	4	790	8	0.34	2	3	62
I027102		<10	<1	0.10	30	0.74	268	3	0.01	6	840	6	0.60	<2	5	76
I027103		<10	<1	0.12	30	0.56	235	6	0.01	5	820	7	0.48	<2	5	61
I027104		<10	<1	0.10	30	0.69	206	10	0.01	6	850	9	0.30	<2	6	72
I027105		<10	<1	0.11	30	0.59	196	3	0.01	5	790	6	0.26	<2	4	120
I027106		10	<1	0.23	20	0.81	245	1	0.03	5	790	3	0.26	<2	5	118
I027107		<10	<1	0.10	30	0.82	199	23	0.01	5	720	7	0.34	<2	4	101
I027108		<10	<1	0.07	20	0.63	234	1	0.01	5	770	7	0.35	<2	5	87
I027109		10	<1	0.28	30	0.83	150	1	0.04	5	800	2	0.43	2	5	78
I027110		<10	<1	<0.01	<10	0.46	97	<1	0.01	<1	90	<2	0.02	<2	<1	91
I027111		<10	<1	0.12	30	0.72	140	2	0.01	5	780	5	0.55	2	5	125
I027112		10	<1	0.37	20	0.75	146	2	0.09	5	740	3	0.43	<2	5	78
I027113		10	<1	0.31	30	0.94	151	9	0.05	5	720	3	0.38	<2	4	88
I027114		<10	<1	0.09	30	0.84	189	3	0.01	5	750	4	0.64	3	4	130
I027115		<10	<1	<0.01	<10	0.43	95	<1	0.01	<1	70	<2	0.01	<2	<1	95
I027116		10	<1	0.40	20	0.84	132	5	0.06	5	710	2	0.48	<2	4	61
I027117		10	<1	0.22	30	0.77	128	3	0.04	5	860	4	0.61	2	3	63
I027118		<10	<1	0.12	30	0.39	62	3	0.01	3	940	5	0.86	3	2	89
I027119		<10	<1	0.09	30	0.47	80	3	<0.01	3	920	4	0.83	3	2	148
I027120		<10	<1	0.10	<10	0.57	415	404	0.08	33	520	6	0.66	2	4	39
I027121		<10	<1	0.11	30	0.59	124	4	0.01	3	950	5	0.71	3	3	134
I027122		<10	<1	0.12	30	0.76	188	5	0.01	4	790	5	0.72	2	5	81
I027123		<10	<1	0.10	30	1.09	280	6	0.01	5	760	6	0.53	<2	5	120
I027124		<10	1	0.14	30	0.66	200	3	0.01	6	790	6	0.50	3	6	123

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027085		20	<0.01	<10	<10	26	<10	17
I027086		20	0.01	<10	<10	34	<10	46
I027087		20	0.01	<10	<10	35	<10	21
I027088		<20	0.01	<10	<10	30	<10	28
I027089		<20	<0.01	<10	<10	23	<10	67
I027090		<20	<0.01	<10	<10	1	<10	2
I027091		20	<0.01	<10	<10	35	<10	26
I027092		20	0.01	<10	<10	40	<10	26
I027093		20	<0.01	<10	<10	30	<10	48
I027094		20	<0.01	<10	<10	31	<10	27
I027095		20	<0.01	<10	<10	25	<10	23
I027096		20	<0.01	<10	<10	24	<10	18
I027097		20	0.02	<10	<10	39	<10	22
I027098		20	0.01	<10	<10	33	<10	18
I027099		20	0.01	<10	10	42	<10	22
I027100		<20	0.05	<10	<10	32	<10	445
I027101		<20	<0.01	<10	<10	20	<10	24
I027102		20	<0.01	<10	<10	31	<10	22
I027103		20	<0.01	<10	<10	30	<10	21
I027104		20	<0.01	<10	<10	35	<10	20
I027105		20	<0.01	<10	10	33	<10	23
I027106		20	0.05	<10	10	47	<10	19
I027107		20	<0.01	<10	<10	26	<10	19
I027108		20	<0.01	<10	<10	31	<10	18
I027109		20	0.07	<10	<10	51	10	17
I027110		<20	<0.01	<10	<10	1	<10	2
I027111		20	0.01	<10	10	35	<10	16
I027112		20	0.08	<10	<10	49	<10	14
I027113		20	0.06	<10	<10	47	<10	15
I027114		20	<0.01	<10	<10	26	<10	17
I027115		<20	<0.01	<10	<10	<1	<10	<2
I027116		20	0.11	<10	<10	57	10	15
I027117		20	0.05	<10	<10	46	10	16
I027118		<20	<0.01	<10	<10	17	<10	16
I027119		<20	<0.01	<10	<10	20	<10	17
I027120		<20	0.12	<10	<10	52	30	56
I027121		<20	<0.01	<10	<10	18	<10	18
I027122		20	<0.01	<10	<10	28	<10	23
I027123		20	<0.01	<10	<10	29	<10	18
I027124		20	0.01	<10	10	37	<10	21

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I027125		5.29	0.008	0.4	0.96	72	<10	90	1.0	<2	2.34	<0.5	9	5	163	2.53
I027126		5.69	0.010	0.3	0.94	102	<10	60	0.6	2	1.89	<0.5	7	7	140	2.48
I027127		6.03	0.039	0.3	1.36	68	<10	40	0.9	<2	2.10	<0.5	10	7	181	3.04
I027128		5.19	0.026	0.4	1.02	72	<10	150	1.2	<2	2.16	<0.5	10	3	192	2.85
I027129		5.30	0.013	0.4	0.80	23	<10	160	1.0	<2	1.62	<0.5	10	3	201	2.88
I027130		0.29	<0.005	<0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	2	0.12
I027131		3.09	0.030	0.5	0.89	18	<10	130	1.1	<2	1.32	<0.5	11	4	275	3.30
I027132		2.75	0.012	0.2	0.46	10	<10	1010	0.9	<2	1.92	<0.5	5	4	69	2.41
I027133		2.58	0.062	0.3	0.38	47	<10	180	0.8	<2	2.02	<0.5	6	4	99	1.81
I027134		7.89	0.035	1.1	0.48	40	<10	420	1.2	4	1.82	<0.5	5	2	285	1.94
I027135		3.96	0.027	0.5	0.50	85	<10	380	0.9	2	1.50	<0.5	4	5	174	2.65
I027136		7.07	0.021	<0.2	0.42	172	<10	50	0.7	<2	0.50	<0.5	1	2	32	4.34
I027137		5.06	0.017	0.3	0.48	25	<10	340	1.0	<2	1.38	<0.5	6	2	153	1.87
I027138		8.33	0.012	0.3	0.44	18	<10	170	1.0	<2	1.49	<0.5	6	3	78	2.23
I027139		7.55	0.015	0.3	0.46	18	<10	90	1.0	<2	1.49	<0.5	6	3	124	2.09
I027140		0.06	0.343	2.8	1.64	28	10	60	<0.5	<2	0.81	2.2	11	29	2500	4.39
I027141		7.44	0.018	0.3	0.42	15	<10	150	1.0	<2	2.35	<0.5	6	3	159	2.20
I027142		5.96	0.026	0.2	0.58	9	<10	210	0.8	<2	2.20	<0.5	5	3	67	2.19
I027143		6.50	0.018	0.3	0.59	15	<10	100	0.7	<2	1.76	<0.5	5	5	157	2.53
I027144		6.00	0.049	0.3	0.70	9	<10	110	<0.5	<2	1.44	<0.5	6	9	158	2.42
I027145		5.37	0.011	0.3	0.53	8	<10	100	0.6	<2	1.72	<0.5	4	6	91	2.02
I027146		3.62	0.010	<0.2	0.31	7	<10	120	0.7	<2	2.42	<0.5	4	7	41	1.86
I027147		5.91	0.019	0.2	0.35	6	<10	60	0.8	<2	2.03	<0.5	4	7	19	1.80

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027125		<10	<1	0.13	30	0.61	201	1	0.01	6	700	4	0.47	<2	4	121
I027126		<10	<1	0.21	20	0.64	205	2	0.03	5	720	4	0.38	3	5	117
I027127		10	<1	0.16	30	0.75	183	4	0.03	6	710	5	0.63	<2	5	141
I027128		<10	<1	0.13	30	0.78	184	5	0.01	5	710	6	0.66	<2	3	153
I027129		<10	<1	0.12	30	0.72	164	6	0.01	6	750	7	0.64	2	4	118
I027130		<10	<1	0.01	<10	0.47	89	<1	<0.01	<1	60	<2	0.02	<2	<1	91
I027131		<10	<1	0.12	60	0.65	151	2	0.01	7	780	6	0.91	2	5	390
I027132		<10	<1	0.11	30	0.76	229	24	<0.01	5	730	5	0.27	<2	5	109
I027133		<10	<1	0.08	10	0.73	121	72	0.01	4	430	6	0.78	2	3	166
I027134		<10	<1	0.16	20	0.67	168	29	0.01	4	640	6	0.47	4	4	134
I027135		<10	<1	0.20	20	0.64	176	25	0.01	3	850	7	0.59	7	4	155
I027136		<10	1	0.18	10	0.15	54	33	0.01	2	620	6	4.46	11	1	95
I027137		<10	<1	0.20	30	0.42	169	10	0.02	4	730	8	0.58	2	5	177
I027138		<10	<1	0.19	20	0.57	192	10	0.01	5	750	7	0.59	3	5	138
I027139		<10	1	0.21	30	0.45	186	10	0.02	5	750	9	0.45	<2	5	134
I027140		<10	1	0.27	<10	0.56	744	227	0.05	20	730	74	2.23	2	2	54
I027141		<10	<1	0.19	30	0.55	219	8	0.02	4	740	6	0.48	2	5	213
I027142		<10	<1	0.17	20	0.67	177	3	0.02	3	680	5	0.31	2	5	227
I027143		<10	<1	0.16	30	0.61	173	3	0.03	4	680	5	0.24	<2	5	144
I027144		<10	<1	0.24	20	0.69	188	16	0.05	4	670	5	0.23	<2	5	108
I027145		<10	<1	0.16	20	0.50	199	5	0.03	4	730	5	0.12	<2	5	135
I027146		<10	<1	0.12	20	0.68	278	2	0.04	4	810	4	0.07	<2	6	198
I027147		<10	<1	0.12	20	0.52	260	5	0.03	4	790	4	0.05	<2	6	205

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027125		20	0.01	<10	<10	29	<10	18
I027126		20	0.04	<10	<10	41	<10	16
I027127		20	0.02	<10	<10	45	<10	17
I027128		20	<0.01	<10	<10	23	<10	22
I027129		20	<0.01	<10	<10	22	<10	22
I027130		<20	<0.01	<10	<10	1	<10	<2
I027131		20	<0.01	<10	<10	25	10	20
I027132		20	<0.01	<10	<10	26	<10	14
I027133		<20	<0.01	<10	<10	15	<10	18
I027134		20	<0.01	<10	<10	16	<10	23
I027135		<20	<0.01	<10	<10	19	<10	29
I027136		<20	<0.01	30	<10	5	<10	20
I027137		20	<0.01	10	<10	15	<10	16
I027138		20	<0.01	10	<10	14	<10	15
I027139		20	<0.01	10	<10	20	<10	19
I027140		<20	0.04	<10	<10	31	<10	435
I027141		20	<0.01	10	<10	17	<10	20
I027142		20	<0.01	<10	<10	18	<10	18
I027143		20	0.01	<10	<10	23	<10	16
I027144		20	0.05	<10	<10	45	<10	20
I027145		20	0.01	<10	<10	27	<10	17
I027146		<20	<0.01	<10	<10	18	<10	20
I027147		<20	<0.01	<10	<10	19	<10	20

Comments: **Corrected copy for Au- AA23 on samples E444391 to E444409**

***** See Appendix Page for comments regarding this certificate *****

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164323

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-35	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA23	ME-ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17165305

Project: Freegold Mountain Project

P.O. No.: 1005139

This report is for 5 Reject samples submitted to our lab in Whitehorse, YT, Canada on 8- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 03	Find Reject for Addn Analysis
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
SCR- 21	Screen1kg to 106 to 106um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR24	Au Screen FA Double Minus 50g	WST- SIM
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
Au- AA26D	Ore Grade Au 50g FA AA Dup	AAS

To: TRIUMPH GOLD CORP.
ATTN: GRAEME HOPKINS
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17165305

Sample Description	Method / Analyte / Units / LOR	Au- SCR24 Au Total ppm 0.05	Au- SCR24 Au (+) F ppm 0.05	Au- SCR24 Au (-) F ppm 0.05	Au- SCR24 Au (+) m mg 0.001	Au- SCR24 WT. + Fr g 0.01	Au- SCR24 WT. - Fr g 0.1	Au- AA26 Au ppm 0.01	Au- AA26D Au ppm 0.01
I026906		45.0	452	10.60	38.108	84.33	996.5	10.85	10.30
I026908		2.15	18.10	0.50	1.681	92.92	897.9	0.51	0.48
I026910		2.15	22.7	0.81	1.398	61.53	940.2	0.74	0.87
I026911		5.84	58.4	1.64	4.212	72.08	903.3	2.07	1.21
I026912		2.36	25.6	0.67	1.752	68.37	937.4	0.80	0.53

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain Project

CERTIFICATE OF ANALYSIS WH17165305

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
FND- 03 SPL- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- AA26 Au- AA26D Au- SCR24 BAG- 01
PUL- 32 SCR- 21

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 10- SEP- 2017
This copy reported on
12- OCT- 2017
Account: NOFREG

CERTIFICATE WH17168272

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 200 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 10- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E444432		9.99	0.129	<0.2	1.25	15	<10	60	0.6	7	0.76	<0.5	9	35	163	2.73
E444433		10.11	0.032	<0.2	1.19	9	<10	60	0.5	<2	0.67	<0.5	7	41	106	2.32
E444434		10.91	0.103	0.2	1.55	5	<10	30	0.9	2	0.89	<0.5	11	39	312	3.51
E444435		10.56	0.086	0.3	1.03	6	<10	30	0.6	17	0.82	<0.5	7	35	148	2.45
E444436		8.64	0.017	<0.2	1.47	19	<10	100	0.6	<2	0.59	<0.5	8	47	155	2.87
E444437		5.98	0.014	0.2	0.97	19	<10	50	0.6	4	0.50	<0.5	6	39	170	2.14
E444438		6.39	0.130	0.4	0.62	44	<10	30	0.8	6	0.66	<0.5	11	22	381	2.28
E444439		6.62	0.094	0.3	1.04	104	<10	60	0.7	<2	0.63	<0.5	8	32	296	2.49
E444440		0.06	0.321	2.6	1.68	27	10	60	<0.5	<2	0.82	2.3	10	29	2530	4.50
E444441		6.46	0.077	0.3	0.89	258	<10	60	0.7	5	0.51	<0.5	13	22	329	2.88
E444442		6.61	0.055	0.7	1.14	70	<10	40	1.4	9	1.20	<0.5	14	28	773	4.79
E444443		6.39	0.042	0.3	0.30	53	<10	150	0.6	20	1.58	<0.5	8	8	327	2.57
E444444		6.32	0.011	0.2	0.39	77	<10	80	0.6	2	1.44	<0.5	7	12	160	2.35
E444445		6.38	0.017	0.5	0.37	27	<10	60	0.5	<2	0.86	<0.5	6	13	139	1.76
E444446		6.09	0.013	<0.2	0.80	18	<10	80	0.5	6	0.79	<0.5	7	29	118	2.19
E444447		3.53	0.125	1.9	0.84	19	<10	60	0.5	9	0.76	<0.5	18	35	1640	3.56
E444448		6.07	0.021	0.3	0.91	32	<10	50	0.8	<2	0.86	<0.5	11	32	317	3.50
E444449		6.98	0.063	<0.2	1.19	20	<10	90	0.7	3	0.65	<0.5	12	35	169	3.19
E444450		0.38	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.11
E444451		3.77	0.046	<0.2	0.88	36	<10	210	0.7	2	0.90	<0.5	10	27	149	2.85
E444452		4.66	0.041	0.3	0.75	101	<10	30	0.8	<2	1.31	<0.5	9	23	193	2.65
E444453		4.56	0.097	1.3	0.41	177	<10	30	0.6	54	3.04	<0.5	26	12	1130	3.77
E444454		6.03	0.062	0.3	1.08	52	<10	90	0.7	5	1.11	<0.5	11	32	274	3.00
E444455		6.90	0.103	0.5	1.31	37	<10	70	0.8	6	1.09	0.7	11	34	346	3.06
E444456		6.39	0.120	0.2	0.92	37	<10	60	0.7	2	0.63	<0.5	10	25	151	2.74
E444457		3.17	0.100	<0.2	0.97	1695	<10	120	0.7	7	0.57	<0.5	15	25	182	3.18
E444458		6.14	0.102	0.3	0.40	142	<10	120	0.7	2	1.24	<0.5	10	13	181	2.76
E444459		5.83	0.030	<0.2	0.35	82	<10	40	0.5	<2	0.88	<0.5	8	10	127	2.15
E444460		0.06	0.328	2.7	1.56	27	10	60	<0.5	<2	0.78	2.2	10	28	2460	4.36
E444461		3.25	0.014	<0.2	0.35	69	<10	40	<0.5	<2	0.39	<0.5	8	12	149	2.09
E444462		4.14	0.117	0.3	0.32	2040	<10	40	<0.5	3	1.36	1.1	12	9	165	2.37
E444463		4.81	0.183	0.6	0.27	98	<10	90	<0.5	6	1.93	1.6	10	8	295	2.22
E444464		5.87	0.035	0.3	0.33	102	<10	90	<0.5	19	0.75	<0.5	9	10	272	1.98
E444465		6.93	0.286	0.3	0.44	67	<10	50	0.5	12	1.10	<0.5	9	29	301	2.16
E444466		6.34	0.348	1.1	0.37	200	<10	40	0.6	25	1.20	0.6	19	13	888	2.96
E444467		5.65	1.035	0.8	0.39	179	<10	340	0.6	7	1.74	<0.5	9	8	538	2.46
E444468		6.40	0.042	<0.2	0.44	83	<10	80	0.7	2	2.02	<0.5	8	14	145	2.54
E444469		6.69	0.051	0.2	0.58	126	<10	60	0.7	<2	1.45	<0.5	10	18	160	2.66
E444470		0.35	<0.005	<0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	3	0.09
E444471		6.75	0.018	0.2	0.33	68	<10	130	0.5	4	1.36	<0.5	9	9	199	2.07

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444432		<10	1	0.53	20	0.59	91	1	0.04	24	260	4	0.80	<2	3	26
E444433		10	<1	0.45	20	0.58	103	1	0.05	18	450	2	0.49	<2	3	29
E444434		10	<1	0.17	20	0.68	108	<1	0.12	18	660	5	1.41	<2	6	63
E444435		10	<1	0.30	20	0.62	108	1	0.06	11	600	13	0.69	2	5	60
E444436		10	1	0.70	10	0.79	112	1	0.06	21	230	3	0.65	<2	5	54
E444437		10	<1	0.47	20	0.60	74	1	0.04	17	250	3	0.54	<2	4	34
E444438		<10	1	0.28	10	0.35	52	<1	0.05	13	190	4	1.11	<2	3	56
E444439		<10	<1	0.52	20	0.60	68	1	0.03	19	300	4	0.82	<2	2	29
E444440		<10	1	0.29	<10	0.56	742	233	0.05	22	720	77	2.17	4	2	54
E444441		<10	<1	0.51	30	0.52	66	4	0.02	34	500	2	1.35	8	2	24
E444442		10	1	0.33	20	0.73	149	2	0.07	28	520	4	2.30	4	4	78
E444443		<10	1	0.14	30	0.33	51	13	0.03	7	300	4	1.30	2	2	74
E444444		<10	<1	0.16	30	0.31	71	4	0.03	9	280	6	0.85	<2	3	73
E444445		<10	<1	0.21	20	0.29	65	1	0.02	9	300	3	0.72	2	1	56
E444446		<10	<1	0.50	20	0.56	93	1	0.04	18	340	2	0.49	<2	3	47
E444447		<10	1	0.55	20	0.90	86	<1	0.03	25	230	4	1.48	<2	5	39
E444448		10	1	0.49	20	0.82	80	<1	0.05	17	360	4	1.49	4	4	39
E444449		<10	<1	0.77	30	0.74	112	<1	0.04	33	400	8	0.82	2	4	32
E444450		<10	1	<0.01	<10	0.56	81	<1	<0.01	<1	60	<2	0.01	3	<1	92
E444451		<10	1	0.53	20	0.69	92	1	0.02	26	220	2	0.71	<2	3	36
E444452		<10	1	0.36	20	0.74	87	1	<0.01	26	360	3	0.79	6	5	55
E444453		<10	<1	0.24	20	0.59	101	4	<0.01	25	390	2	1.88	19	3	88
E444454		<10	<1	0.67	20	0.92	88	1	0.04	25	360	3	0.98	5	4	71
E444455		10	<1	0.87	30	1.05	117	1	0.03	31	430	16	0.72	4	5	67
E444456		<10	<1	0.62	20	0.76	120	1	0.01	24	490	10	0.62	2	3	38
E444457		<10	<1	0.63	30	0.75	89	4	<0.01	38	470	<2	1.03	3	2	35
E444458		<10	<1	0.19	20	0.57	110	2	<0.01	23	410	3	0.99	11	2	66
E444459		<10	<1	0.21	10	0.45	97	3	<0.01	21	200	8	0.68	10	1	46
E444460		<10	<1	0.27	<10	0.54	732	222	0.05	21	730	76	2.15	<2	2	52
E444461		<10	<1	0.21	10	0.36	88	2	<0.01	23	200	<2	0.70	24	1	22
E444462		<10	<1	0.21	10	0.59	119	1	<0.01	24	170	30	0.77	23	1	70
E444463		<10	<1	0.19	10	0.73	118	1	<0.01	19	160	88	0.80	32	1	100
E444464		<10	<1	0.21	20	0.38	80	2	<0.01	22	210	12	0.78	37	1	38
E444465		<10	<1	0.21	20	0.54	98	3	<0.01	27	390	11	0.76	15	3	41
E444466		<10	<1	0.17	20	0.52	111	2	<0.01	29	490	19	1.46	12	4	51
E444467		<10	<1	0.19	20	0.78	137	2	<0.01	23	290	19	0.75	51	3	95
E444468		<10	<1	0.17	30	0.94	130	2	<0.01	23	520	8	0.51	10	5	108
E444469		<10	<1	0.28	20	0.80	123	2	<0.01	29	410	9	0.76	11	4	68
E444470		<10	1	0.01	<10	0.48	80	<1	<0.01	<1	70	<2	0.01	<2	<1	85
E444471		<10	<1	0.16	20	0.52	114	2	<0.01	20	240	4	0.65	16	1	43

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444432		20	0.07	<10	<10	26	<10	11
E444433		<20	0.07	<10	<10	31	<10	11
E444434		<20	0.08	<10	<10	55	<10	14
E444435		<20	0.07	<10	<10	39	<10	11
E444436		<20	0.10	<10	<10	39	<10	14
E444437		<20	0.06	<10	<10	29	<10	9
E444438		<20	0.02	<10	<10	18	<10	14
E444439		<20	0.06	<10	<10	22	<10	16
E444440		<20	0.04	<10	<10	31	<10	439
E444441		20	0.02	<10	<10	15	<10	8
E444442		<20	0.04	<10	<10	43	<10	15
E444443		<20	<0.01	<10	<10	6	<10	8
E444444		20	0.01	<10	<10	12	<10	8
E444445		<20	0.01	<10	<10	8	<10	8
E444446		<20	0.05	<10	<10	21	<10	9
E444447		<20	0.06	<10	<10	28	<10	33
E444448		<20	0.05	<10	<10	29	<10	11
E444449		<20	0.09	<10	<10	33	<10	11
E444450		<20	<0.01	<10	<10	<1	<10	2
E444451		<20	0.05	<10	<10	20	<10	8
E444452		<20	0.02	<10	<10	21	<10	11
E444453		<20	<0.01	<10	<10	10	<10	18
E444454		<20	0.06	<10	<10	28	<10	12
E444455		20	0.08	<10	<10	32	<10	67
E444456		<20	0.05	<10	<10	21	<10	24
E444457		20	0.04	<10	<10	19	<10	12
E444458		<20	<0.01	<10	<10	12	<10	9
E444459		<20	<0.01	<10	<10	5	<10	20
E444460		<20	0.04	<10	<10	30	<10	426
E444461		<20	<0.01	<10	<10	6	<10	9
E444462		<20	<0.01	<10	<10	5	<10	98
E444463		<20	<0.01	<10	<10	4	<10	142
E444464		<20	<0.01	<10	<10	4	<10	20
E444465		<20	0.01	<10	<10	11	<10	15
E444466		<20	<0.01	<10	<10	13	<10	39
E444467		<20	<0.01	<10	<10	11	<10	36
E444468		20	<0.01	<10	<10	23	<10	14
E444469		<20	0.01	<10	<10	22	<10	23
E444470		<20	<0.01	<10	<10	<1	<10	<2
E444471		<20	<0.01	<10	<10	7	<10	10

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444472		6.54	0.169	0.2	0.36	84	<10	190	0.5	5	1.17	<0.5	7	10	165	1.91
E444473		6.87	0.040	0.4	0.44	66	<10	110	0.6	10	1.18	0.5	7	14	216	1.71
E444474		6.60	0.075	0.4	0.31	111	<10	60	0.6	4	1.32	<0.5	8	6	316	2.13
E444475		6.42	0.829	0.6	0.47	4200	<10	50	0.7	59	1.13	<0.5	25	30	327	2.61
E444476		2.86	4.09	1.3	0.24	>10000	<10	30	<0.5	182	2.55	0.6	97	12	1000	5.03
E444477		3.19	2.17	0.8	0.46	5080	<10	360	0.9	61	2.46	<0.5	25	14	476	2.61
E444478		3.57	0.342	0.5	0.39	278	<10	50	0.8	25	1.41	<0.5	13	25	429	2.47
E444479		3.63	1.350	0.7	0.31	488	<10	170	0.5	124	2.86	<0.5	16	11	477	2.13
E444480		0.06	0.329	2.7	1.65	30	<10	60	<0.5	<2	0.80	2.3	11	29	2490	4.37
E444481		3.41	0.508	0.2	0.30	65	<10	20	0.6	9	1.07	<0.5	6	18	192	1.68
E444482		3.22	0.154	0.5	0.26	51	<10	60	0.5	97	1.34	0.9	5	19	173	2.08
E444483		3.23	0.037	0.2	0.29	56	<10	190	0.6	4	1.71	<0.5	7	17	252	2.54
E444484		3.14	0.030	<0.2	0.27	45	<10	330	0.6	2	1.40	<0.5	5	16	118	2.68
E444485		3.39	1.220	0.2	0.36	179	<10	80	0.8	31	4.57	<0.5	11	38	170	2.77
E444486		3.28	0.499	1.8	0.39	409	<10	20	1.2	82	3.46	1.3	24	51	1440	6.72
E444487		3.26	0.157	0.8	0.34	329	<10	10	0.9	23	2.55	<0.5	15	40	713	2.70
E444488		3.53	0.134	4.8	0.31	1505	<10	20	0.6	180	4.95	3.2	17	21	4890	4.86
E444489		3.26	0.099	2.3	0.29	345	<10	30	<0.5	81	5.11	1.2	13	6	1500	2.40
E444490		0.33	0.006	<0.2	0.02	5	<10	20	<0.5	2	>25.0	<0.5	<1	1	10	0.12
E444491		3.22	0.135	0.7	0.23	166	<10	20	<0.5	9	1.78	<0.5	7	8	487	2.02
E444492		2.92	0.033	0.3	0.26	160	<10	30	<0.5	13	1.80	<0.5	3	11	288	1.40
E444493		3.08	0.055	0.5	0.26	161	<10	40	0.5	4	3.05	<0.5	7	11	288	2.69
E444494		3.26	0.048	0.4	0.43	165	<10	30	0.9	3	1.83	<0.5	6	2	379	2.53
E444495		6.55	0.029	0.3	0.45	199	<10	180	0.9	<2	3.41	<0.5	7	1	331	2.75
E444496		6.49	0.061	0.5	0.48	190	<10	110	0.7	2	2.35	<0.5	9	2	445	2.53
E444497		6.59	0.055	0.3	0.51	63	<10	90	0.7	5	1.97	0.5	7	18	271	2.12
E444498		6.34	0.166	0.8	0.90	58	<10	40	0.8	6	2.74	<0.5	8	19	703	2.27
E444499		6.12	0.076	1.4	0.63	34	<10	180	0.7	6	2.62	0.5	6	16	1110	2.20
E444500		0.06	0.309	2.8	1.72	31	10	60	<0.5	2	0.84	2.3	11	31	2570	4.56
E444501		6.01	0.017	0.5	0.17	143	<10	90	<0.5	19	0.67	<0.5	2	7	162	0.76
E444502		6.17	0.021	0.3	0.24	319	<10	70	<0.5	4	2.55	<0.5	3	12	211	1.28
E444503		6.44	0.016	0.3	0.16	43	<10	340	<0.5	2	1.66	<0.5	1	13	241	0.91
E444504		6.23	0.051	0.6	0.17	309	<10	50	<0.5	32	1.53	2.5	4	15	523	1.04
E444505		6.22	0.028	<0.2	0.41	93	<10	50	0.5	3	1.04	<0.5	7	17	152	1.71
E444506		6.75	0.018	<0.2	0.86	35	<10	60	0.6	3	1.44	<0.5	8	30	120	2.16
E444507		6.60	0.031	0.2	1.38	39	<10	100	0.8	4	1.41	<0.5	10	37	193	3.08
E444508		6.42	0.052	0.5	0.53	1515	<10	130	0.8	4	1.90	0.5	6	15	341	2.35
E444509		6.42	0.016	0.2	0.45	17	<10	30	0.7	5	1.47	<0.5	5	13	222	1.76
E444510		0.56	<0.005	<0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	4	0.10
E444511		6.39	0.026	0.2	0.79	35	<10	100	0.8	8	1.79	<0.5	5	23	158	2.12

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444472		<10	<1	0.20	20	0.49	97	1	<0.01	19	200	3	0.54	13	1	74
E444473		<10	<1	0.23	20	0.52	90	3	<0.01	21	310	20	0.43	5	3	53
E444474		<10	<1	0.14	20	0.52	110	2	<0.01	13	250	7	1.08	15	2	58
E444475		<10	1	0.18	20	0.56	115	2	<0.01	65	680	17	0.98	26	6	66
E444476		<10	<1	0.18	<10	0.75	113	2	<0.01	74	340	34	3.51	82	2	212
E444477		<10	1	0.26	20	0.98	181	5	<0.01	75	1220	5	0.63	95	6	129
E444478		<10	<1	0.20	20	0.54	149	1	<0.01	73	890	4	0.80	22	7	55
E444479		<10	<1	0.21	10	0.47	122	17	<0.01	35	890	5	1.31	14	2	103
E444480		<10	<1	0.29	<10	0.55	745	227	0.05	21	730	78	2.15	2	2	54
E444481		<10	<1	0.15	<10	0.43	134	6	<0.01	60	650	5	0.49	4	4	59
E444482		<10	<1	0.13	10	0.63	127	5	<0.01	52	440	64	0.51	3	5	83
E444483		<10	<1	0.16	10	0.82	121	2	<0.01	46	520	5	0.68	8	5	131
E444484		<10	<1	0.15	10	0.87	117	4	<0.01	36	400	2	0.56	7	6	148
E444485		<10	<1	0.17	10	0.94	190	3	<0.01	118	520	9	0.59	26	9	127
E444486		<10	<1	0.23	<10	1.86	420	4	<0.01	198	470	65	2.45	80	18	199
E444487		<10	<1	0.21	<10	1.06	204	2	<0.01	190	200	17	1.20	88	13	132
E444488		<10	<1	0.20	<10	1.59	228	2	0.01	142	200	122	3.93	134	4	178
E444489		<10	<1	0.21	<10	0.57	159	2	<0.01	59	200	29	1.42	113	1	184
E444490		<10	2	0.01	<10	0.53	97	<1	<0.01	1	70	<2	0.02	<2	<1	94
E444491		<10	<1	0.16	10	0.78	121	6	<0.01	25	200	9	0.85	34	1	94
E444492		<10	<1	0.18	10	0.77	121	3	<0.01	12	470	9	0.22	36	2	97
E444493		<10	<1	0.17	<10	0.80	151	2	<0.01	26	620	19	1.39	58	3	171
E444494		<10	1	0.17	10	0.58	125	<1	<0.01	3	560	12	1.70	70	1	69
E444495		<10	<1	0.14	10	1.03	139	2	<0.01	2	790	7	1.31	47	2	78
E444496		<10	<1	0.17	10	0.76	109	2	<0.01	3	700	20	1.68	33	1	87
E444497		<10	<1	0.13	20	0.51	117	2	<0.01	16	330	23	0.74	16	4	81
E444498		10	<1	0.25	20	0.58	119	3	<0.01	13	380	9	0.70	5	4	85
E444499		<10	<1	0.20	20	0.52	125	6	<0.01	15	390	14	0.65	4	4	138
E444500		<10	<1	0.30	<10	0.57	771	248	0.05	22	760	79	2.25	3	2	57
E444501		<10	1	0.10	10	0.25	69	4	<0.01	5	90	25	0.16	3	<1	32
E444502		<10	<1	0.14	10	0.41	102	3	<0.01	9	120	8	0.39	6	1	75
E444503		<10	<1	0.10	10	0.49	84	1	<0.01	4	100	6	0.15	8	1	58
E444504		<10	<1	0.11	10	0.46	84	1	<0.01	5	120	19	0.40	19	1	54
E444505		<10	<1	0.21	20	0.48	107	4	<0.01	24	350	7	0.46	5	3	45
E444506		<10	<1	0.41	20	0.59	130	2	<0.01	25	360	5	0.31	3	4	57
E444507		10	<1	0.68	30	0.84	151	4	<0.01	26	350	7	0.51	3	7	58
E444508		<10	<1	0.22	20	0.77	186	6	<0.01	16	320	15	0.75	4	4	87
E444509		<10	<1	0.19	20	0.53	127	2	<0.01	14	290	8	0.34	2	3	152
E444510		<10	<1	0.01	<10	0.45	97	<1	0.01	12	70	<2	0.02	<2	<1	94
E444511		<10	<1	0.40	30	0.87	143	3	<0.01	19	350	8	0.43	7	5	358

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444472		<20	<0.01	<10	<10	6	<10	10
E444473		<20	0.01	<10	<10	11	<10	42
E444474		<20	<0.01	<10	<10	6	<10	13
E444475		<20	0.01	<10	<10	37	<10	22
E444476		<20	<0.01	<10	<10	9	<10	39
E444477		<20	<0.01	<10	<10	20	<10	24
E444478		<20	<0.01	<10	<10	27	<10	11
E444479		<20	<0.01	<10	<10	10	<10	9
E444480		<20	0.04	<10	<10	31	<10	429
E444481		<20	<0.01	<10	<10	22	<10	22
E444482		<20	<0.01	<10	<10	26	<10	82
E444483		<20	<0.01	<10	<10	29	<10	15
E444484		<20	<0.01	<10	<10	32	<10	8
E444485		<20	<0.01	<10	<10	42	<10	17
E444486		<20	<0.01	<10	<10	47	<10	108
E444487		<20	<0.01	<10	<10	24	<10	43
E444488		<20	<0.01	<10	<10	16	<10	270
E444489		<20	<0.01	<10	<10	5	<10	115
E444490		<20	<0.01	<10	<10	<1	<10	2
E444491		<20	<0.01	<10	<10	4	<10	18
E444492		<20	<0.01	<10	<10	9	<10	15
E444493		<20	<0.01	<10	<10	11	<10	22
E444494		<20	<0.01	<10	<10	5	<10	17
E444495		<20	<0.01	<10	<10	7	<10	14
E444496		<20	<0.01	<10	<10	3	<10	17
E444497		<20	0.01	<10	<10	19	<10	39
E444498		<20	0.02	<10	<10	29	<10	39
E444499		<20	0.02	<10	<10	24	<10	50
E444500		<20	0.04	<10	<10	32	<10	446
E444501		<20	<0.01	<10	<10	2	<10	28
E444502		<20	<0.01	<10	<10	6	<10	29
E444503		<20	<0.01	<10	<10	3	<10	32
E444504		<20	<0.01	<10	<10	3	<10	235
E444505		<20	0.01	<10	<10	21	<10	21
E444506		<20	0.05	<10	<10	35	<10	17
E444507		20	0.09	<10	<10	40	<10	21
E444508		20	0.01	<10	<10	15	<10	48
E444509		<20	0.01	<10	<10	12	<10	28
E444510		<20	<0.01	<10	<10	<1	<10	<2
E444511		20	0.03	<10	<10	23	<10	16

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444512		6.24	0.035	0.3	0.74	28	<10	50	0.7	8	1.25	<0.5	8	18	312	2.10
E444513		6.65	0.037	0.4	0.35	18	<10	90	0.6	10	1.52	<0.5	7	10	396	1.90
E444514		4.37	0.012	0.6	0.34	41	<10	630	0.8	42	2.78	<0.5	3	5	124	1.24
E444515		9.20	0.008	<0.2	0.40	52	<10	50	0.9	<2	1.50	<0.5	9	13	77	2.53
E444516		5.65	0.008	<0.2	0.29	62	<10	120	0.5	<2	1.27	<0.5	3	7	73	1.15
E444517		7.08	0.012	0.4	0.36	68	<10	80	0.7	<2	1.95	<0.5	4	8	296	1.44
E444518		6.42	0.007	<0.2	0.75	23	<10	30	1.0	<2	1.54	<0.5	7	21	104	2.32
E444519		6.32	0.019	<0.2	0.59	33	<10	40	1.1	<2	1.70	<0.5	8	18	103	2.45
E444520		0.06	0.325	2.8	1.72	30	<10	60	<0.5	2	0.85	2.3	11	31	2630	4.59
E444521		6.42	0.050	0.2	0.40	1445	<10	30	0.9	<2	1.93	<0.5	6	8	149	2.13
E444522		5.73	0.006	<0.2	0.88	45	<10	50	0.8	<2	1.50	<0.5	6	24	48	2.38
E444523		5.88	0.017	<0.2	0.66	38	<10	40	0.6	<2	0.80	<0.5	7	22	130	2.02
E444524		6.37	0.222	0.2	1.15	32	<10	130	0.6	20	0.98	<0.5	7	31	88	2.52
E444525		7.43	0.013	0.2	0.71	32	<10	40	0.5	<2	0.85	<0.5	4	21	81	1.52
E444526		7.01	0.009	<0.2	0.69	76	<10	30	0.6	<2	1.24	<0.5	6	25	109	2.01
E444527		7.04	0.008	<0.2	1.02	71	<10	40	0.6	<2	0.76	<0.5	8	38	119	2.33
E444528		6.80	0.234	<0.2	0.65	56	<10	40	<0.5	<2	0.76	<0.5	5	25	136	1.87
E444529		6.47	0.069	0.2	1.69	208	<10	120	0.7	<2	1.01	<0.5	10	51	133	2.95
E444530		0.25	<0.005	0.3	0.03	3	<10	20	<0.5	2	>25.0	<0.5	<1	1	3	0.12
E444531		6.93	0.017	0.2	1.94	554	<10	80	0.7	<2	0.58	<0.5	11	52	167	3.62
E444532		7.07	0.006	0.2	0.87	77	<10	230	0.5	<2	2.05	<0.5	4	30	97	1.84
E444533		6.81	0.006	<0.2	2.36	18	<10	80	0.7	<2	1.20	<0.5	13	83	194	3.61
E444534		7.43	0.009	0.3	1.87	17	<10	60	0.6	<2	0.94	<0.5	12	43	252	3.05
E444535		5.89	0.010	0.2	0.70	236	<10	40	0.5	<2	0.74	<0.5	7	29	212	2.22
E444536		8.03	0.015	0.2	0.82	392	<10	50	0.6	<2	1.10	<0.5	8	30	185	2.26
E444537		7.35	0.006	0.2	0.74	301	<10	50	0.5	<2	0.86	<0.5	6	28	128	1.94
E444538		6.93	0.006	0.2	0.77	30	<10	60	0.5	<2	0.83	<0.5	6	32	139	2.01
E444539		6.87	<0.005	<0.2	0.89	82	<10	80	0.5	<2	0.74	<0.5	6	33	59	1.96
E444540		0.06	0.326	2.7	1.67	28	<10	60	<0.5	<2	0.82	2.1	11	30	2460	4.40
E444541		6.97	0.007	0.3	1.01	66	<10	90	0.5	3	0.86	<0.5	6	38	233	2.18
E444542		6.48	<0.005	<0.2	0.74	14	<10	50	<0.5	2	0.67	<0.5	7	31	134	2.18
E444543		7.15	0.014	0.6	0.59	32	<10	40	0.7	8	1.62	<0.5	8	24	454	2.04
E444544		7.41	0.061	1.2	0.85	144	<10	30	0.7	3	1.10	0.5	16	35	1015	3.33
E444545		6.81	0.095	1.3	0.73	133	<10	30	1.0	<2	1.42	0.6	24	21	1340	4.29
E444546		7.47	0.054	0.7	1.35	16	<10	40	0.8	4	1.01	<0.5	24	35	958	4.89
E444547		7.51	0.055	0.5	3.52	7	<10	60	1.4	3	2.72	<0.5	17	47	530	5.33
E444548		7.11	0.129	1.1	1.96	60	<10	40	1.2	6	3.38	<0.5	19	27	984	4.51
E444549		5.08	0.011	0.2	0.49	117	<10	50	1.1	4	2.30	<0.5	6	12	194	2.06
E444550		0.36	<0.005	0.2	0.07	2	<10	20	<0.5	4	>25.0	<0.5	1	2	15	0.18
E444551		9.39	0.264	0.2	0.66	667	<10	110	0.5	5	0.21	<0.5	5	4	141	2.26

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444512		<10	<1	0.41	30	0.60	111	3	0.02	21	320	10	0.60	2	4	71
E444513		<10	<1	0.21	10	0.58	213	2	<0.01	16	390	12	0.66	4	3	73
E444514		<10	<1	0.15	10	0.45	236	9	<0.01	22	100	47	0.28	13	3	105
E444515		<10	<1	0.22	20	0.63	293	1	<0.01	28	240	4	0.53	12	5	69
E444516		<10	1	0.14	10	0.49	160	6	<0.01	9	70	10	0.29	10	2	55
E444517		<10	<1	0.16	10	0.72	170	2	<0.01	12	180	10	0.36	11	4	107
E444518		<10	<1	0.36	30	0.80	150	1	0.01	24	420	4	0.47	9	7	83
E444519		<10	1	0.26	30	0.81	202	2	<0.01	26	460	6	0.37	9	7	92
E444520		10	<1	0.31	<10	0.58	782	249	0.05	22	770	80	2.27	2	2	57
E444521		<10	<1	0.22	20	0.73	267	2	0.01	20	320	11	0.68	8	3	103
E444522		<10	<1	0.46	30	0.83	146	3	0.01	22	450	3	0.27	3	5	80
E444523		<10	<1	0.38	30	0.53	132	1	0.03	18	360	3	0.42	<2	4	59
E444524		<10	<1	0.71	30	0.78	134	1	0.03	22	370	12	0.30	2	6	44
E444525		<10	<1	0.44	20	0.57	93	1	0.03	13	210	8	0.15	<2	4	46
E444526		<10	<1	0.39	20	0.74	125	<1	0.01	19	320	7	0.22	<2	5	72
E444527		10	<1	0.55	30	0.72	109	3	0.03	20	320	3	0.45	<2	6	36
E444528		<10	<1	0.33	20	0.63	102	7	0.04	14	340	7	0.37	<2	4	41
E444529		10	<1	1.04	30	1.05	148	6	0.04	29	890	3	0.35	<2	8	52
E444530		<10	<1	0.01	<10	0.55	89	<1	<0.01	<1	80	<2	0.01	<2	<1	86
E444531		10	<1	1.18	30	1.04	136	2	0.03	31	600	2	0.78	3	7	24
E444532		<10	<1	0.42	20	0.70	104	5	0.02	16	330	4	0.26	2	4	63
E444533		10	<1	0.95	30	1.12	139	1	0.16	30	480	4	0.78	<2	8	63
E444534		10	<1	0.62	30	0.80	105	25	0.13	26	470	4	0.91	<2	7	50
E444535		<10	<1	0.34	20	0.58	98	3	0.03	20	270	8	0.76	2	4	44
E444536		<10	<1	0.37	30	0.68	97	2	0.03	19	280	6	0.59	5	5	64
E444537		<10	<1	0.30	30	0.53	105	40	0.03	15	260	7	0.44	2	4	45
E444538		<10	<1	0.41	20	0.56	109	3	0.04	18	300	6	0.42	<2	5	51
E444539		<10	<1	0.51	20	0.56	111	4	0.02	18	250	3	0.27	<2	4	41
E444540		<10	<1	0.28	<10	0.56	725	230	0.05	21	720	75	2.14	<2	2	54
E444541		10	<1	0.49	30	0.63	118	4	0.04	19	260	4	0.38	2	5	41
E444542		<10	<1	0.30	30	0.50	117	2	0.03	15	190	5	0.53	<2	4	37
E444543		<10	<1	0.26	30	0.64	130	2	0.02	19	300	5	0.50	2	5	78
E444544		10	<1	0.30	30	0.68	136	5	0.04	30	300	5	1.38	2	5	46
E444545		<10	<1	0.21	30	0.65	113	4	0.03	23	370	9	2.22	2	5	82
E444546		10	<1	0.40	40	0.69	115	2	0.08	30	330	4	2.38	2	6	58
E444547		10	1	0.38	30	0.77	224	3	0.32	30	400	3	1.87	<2	9	183
E444548		10	<1	0.28	20	0.65	234	45	0.09	30	470	4	1.84	<2	7	162
E444549		<10	<1	0.20	20	0.84	213	38	0.01	20	330	11	0.46	25	5	140
E444550		<10	<1	0.01	<10	0.39	108	<1	<0.01	1	80	<2	0.05	<2	<1	95
E444551		<10	<1	0.13	60	0.16	72	2	0.04	6	450	5	0.20	2	2	16

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444512		<20	0.03	<10	<10	19	<10	26
E444513		<20	<0.01	<10	<10	9	<10	37
E444514		20	<0.01	<10	<10	5	<10	20
E444515		<20	<0.01	<10	<10	15	<10	20
E444516		20	<0.01	<10	<10	3	<10	16
E444517		<20	<0.01	<10	<10	7	<10	25
E444518		20	0.02	<10	<10	22	<10	15
E444519		20	0.01	<10	<10	21	<10	20
E444520		<20	0.05	<10	<10	33	<10	450
E444521		<20	<0.01	<10	<10	8	<10	15
E444522		20	0.04	<10	<10	23	<10	10
E444523		20	0.04	<10	<10	20	<10	13
E444524		20	0.09	<10	<10	30	<10	21
E444525		<20	0.05	<10	<10	18	<10	13
E444526		<20	0.04	<10	<10	23	<10	23
E444527		<20	0.08	<10	<10	34	<10	12
E444528		<20	0.04	<10	<10	25	<10	16
E444529		<20	0.16	<10	<10	56	<10	17
E444530		<20	<0.01	<10	<10	1	<10	2
E444531		20	0.17	<10	<10	50	<10	14
E444532		<20	0.05	<10	<10	25	<10	21
E444533		20	0.15	<10	<10	54	<10	20
E444534		20	0.10	<10	<10	50	<10	12
E444535		<20	0.03	<10	<10	22	<10	23
E444536		20	0.04	<10	<10	25	<10	16
E444537		20	0.03	<10	<10	22	<10	16
E444538		<20	0.05	<10	<10	28	<10	14
E444539		<20	0.06	<10	<10	25	<10	11
E444540		<20	0.04	<10	<10	31	<10	434
E444541		20	0.07	<10	<10	33	<10	16
E444542		<20	0.03	<10	<10	23	<10	12
E444543		<20	0.02	<10	<10	19	<10	25
E444544		<20	0.03	<10	<10	35	<10	45
E444545		<20	0.01	<10	<10	28	<10	56
E444546		<20	0.05	<10	<10	36	<10	28
E444547		20	0.10	<10	<10	49	50	21
E444548		<20	0.04	<10	<10	32	10	20
E444549		<20	<0.01	<10	<10	13	<10	24
E444550		<20	<0.01	<10	<10	1	<10	2
E444551		20	0.01	<10	<10	12	<10	10

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444552		8.84	0.028	<0.2	1.84	64	<10	250	<0.5	2	0.48	<0.5	10	15	99	4.11
E444553		7.42	0.208	<0.2	2.45	893	<10	390	0.5	4	0.36	<0.5	16	16	120	4.55
E444554		3.99	0.227	0.4	1.40	56	<10	110	<0.5	46	0.29	<0.5	12	11	280	3.41
E444555		4.41	0.257	0.5	2.55	11	<10	130	0.6	15	1.01	<0.5	22	20	349	5.60
E444556		6.12	0.170	0.2	1.73	36	<10	140	0.5	2	1.20	<0.5	11	15	80	3.94
E444557		4.51	0.039	<0.2	1.45	18	<10	50	0.8	<2	1.14	<0.5	9	3	44	3.11
E444558		4.09	0.536	0.2	0.45	8	<10	90	0.5	2	0.13	1.3	10	2	77	1.94
E444559		5.29	0.154	0.4	0.36	32	<10	350	0.5	11	0.51	0.7	10	3	266	2.28
E444560		0.06	0.336	2.7	1.62	28	10	60	<0.5	<2	0.79	2.3	10	29	2490	4.33
E444561		4.95	0.096	1.3	0.41	84	<10	120	0.7	49	0.36	1.1	24	3	1070	3.59
E444562		4.31	0.038	1.2	0.69	237	<10	60	1.1	66	0.36	1.4	44	16	1360	6.78
E444563		4.38	0.098	1.7	0.42	593	<10	20	1.1	33	0.50	1.1	52	11	1400	8.80
E444564		4.60	0.029	<0.2	0.59	243	<10	320	1.0	5	0.83	0.5	10	2	402	1.83
E444565		7.63	0.029	<0.2	0.52	33	<10	310	0.7	2	1.49	<0.5	7	4	211	1.84
E444566		8.81	0.036	<0.2	0.69	52	<10	60	0.7	<2	2.14	<0.5	7	8	112	2.39
E444567		9.21	0.054	<0.2	1.35	27	<10	50	0.9	3	2.17	<0.5	13	19	177	3.81
E444568		9.18	0.147	<0.2	0.76	130	<10	110	1.1	4	0.32	0.6	29	8	441	5.17
E444569		8.44	0.019	<0.2	1.07	313	<10	60	1.2	<2	0.83	0.8	24	15	131	4.27
E444570		0.38	<0.005	<0.2	0.05	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4	0.15
E444571		8.28	0.180	0.2	1.97	85	<10	90	0.8	<2	1.11	<0.5	22	26	249	5.23
E444572		3.95	0.032	<0.2	1.58	50	<10	50	1.1	<2	2.54	<0.5	16	16	223	4.68
E444573		5.67	0.058	<0.2	0.67	53	<10	70	0.6	<2	1.66	<0.5	6	4	140	2.44
E444574		9.36	0.385	0.2	0.57	69	<10	60	0.5	136	1.43	<0.5	6	3	210	2.06
E444575		9.54	0.446	0.5	0.52	90	<10	70	0.5	627	0.77	<0.5	10	4	366	2.74
E444576		9.02	0.196	0.3	0.67	205	<10	60	0.7	6	0.65	<0.5	11	6	302	3.77
E444577		6.47	0.619	0.8	1.08	50	<10	40	1.0	59	0.46	<0.5	46	36	1220	14.80
E444578		4.79	0.199	0.9	0.59	25	<10	60	0.5	5	0.32	<0.5	17	3	921	3.71
E444579		5.60	0.594	0.4	0.81	46	<10	40	0.7	10	1.68	<0.5	14	12	394	3.89
E444580		0.06	0.362	2.6	1.62	28	10	60	<0.5	2	0.80	2.2	10	29	2460	4.35
E444581		10.08	0.367	0.5	1.36	48	<10	80	0.7	23	1.19	<0.5	18	22	596	4.33
E444582		7.42	0.426	0.2	1.65	65	<10	90	1.1	23	3.39	<0.5	13	23	206	4.35
E444583		5.29	0.752	0.5	1.05	268	<10	30	1.0	22	1.54	<0.5	23	16	427	5.66
E444584		4.99	1.795	0.7	1.25	130	<10	190	0.9	92	1.18	<0.5	17	31	451	3.96
E444585		4.68	0.107	0.5	0.68	231	<10	380	0.6	13	0.60	1.8	11	33	179	2.73
E444586		5.73	1.620	2.3	1.38	152	<10	230	1.0	78	5.76	0.6	19	139	1630	4.63
E444587		5.84	0.029	<0.2	1.41	36	<10	70	0.9	4	3.91	<0.5	15	63	273	4.32
E444588		6.78	0.054	0.4	1.54	69	<10	60	1.1	14	2.38	<0.5	16	27	321	4.64
E444589		7.19	0.021	<0.2	0.67	60	<10	20	0.6	3	2.76	<0.5	7	5	196	1.86
E444590		0.31	<0.005	<0.2	0.02	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	5	0.10
E444591		7.02	0.274	0.3	1.05	334	<10	100	0.8	5	3.34	<0.5	16	25	451	4.82

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444552		10	<1	0.65	40	0.89	173	1	0.09	9	810	3	0.39	<2	9	29
E444553		10	<1	1.03	30	1.52	252	<1	0.05	10	530	3	0.32	<2	15	17
E444554		10	<1	0.34	20	0.75	113	3	0.04	6	600	4	0.86	<2	8	12
E444555		10	<1	0.94	20	2.01	294	1	0.02	12	670	4	1.80	<2	17	21
E444556		10	<1	0.93	10	1.47	421	<1	0.03	10	810	<2	0.69	<2	12	30
E444557		10	<1	0.51	20	0.89	219	1	0.01	6	770	2	0.72	3	9	23
E444558		<10	<1	0.14	70	0.09	296	<1	<0.01	8	330	4	0.16	<2	2	9
E444559		<10	<1	0.15	90	0.18	233	<1	<0.01	7	320	5	0.50	26	1	17
E444560		<10	<1	0.28	<10	0.54	738	224	0.05	22	720	76	2.13	2	2	54
E444561		<10	<1	0.27	40	0.27	341	2	<0.01	14	290	4	1.78	33	2	31
E444562		<10	<1	0.24	20	0.15	259	3	<0.01	39	1390	5	3.51	89	5	7
E444563		<10	1	0.22	20	0.23	333	3	<0.01	42	980	5	5.94	95	5	13
E444564		<10	<1	0.14	50	0.31	230	1	<0.01	10	190	5	0.75	16	2	22
E444565		<10	<1	0.15	50	0.33	161	1	<0.01	7	220	3	0.70	8	3	45
E444566		<10	1	0.13	60	0.41	179	1	0.01	7	250	2	0.94	5	4	50
E444567		10	<1	0.39	30	0.98	238	1	0.01	16	340	3	1.24	4	11	41
E444568		<10	<1	0.11	40	0.32	639	5	<0.01	26	640	4	1.60	10	13	11
E444569		<10	<1	0.40	30	0.77	667	1	<0.01	21	590	2	0.86	6	15	23
E444570		<10	1	0.01	<10	0.49	93	<1	<0.01	<1	70	<2	0.01	<2	<1	89
E444571		10	<1	1.09	10	1.53	196	3	0.01	17	420	2	1.78	4	17	30
E444572		10	<1	0.60	10	1.05	206	3	0.01	11	420	2	1.55	6	15	69
E444573		<10	<1	0.15	30	0.39	97	5	0.03	3	350	3	1.05	4	2	50
E444574		<10	<1	0.13	30	0.30	81	5	0.02	4	380	3	1.01	7	1	38
E444575		<10	<1	0.15	30	0.33	115	4	0.03	5	370	8	1.40	10	1	23
E444576		<10	<1	0.17	20	0.44	159	4	0.01	6	480	3	1.68	13	3	20
E444577		10	<1	0.35	30	0.88	201	2	0.01	7	600	3	5.74	7	9	13
E444578		<10	<1	0.19	10	0.45	124	1	0.03	7	440	3	1.88	3	1	12
E444579		<10	1	0.34	10	0.92	164	3	0.01	8	270	3	1.46	6	5	59
E444580		<10	<1	0.28	<10	0.54	733	231	0.05	21	730	75	2.15	<2	2	53
E444581		10	1	0.69	10	1.17	165	1	0.02	14	320	5	1.84	7	7	33
E444582		10	<1	0.80	20	1.38	183	2	0.01	11	470	6	1.23	6	13	77
E444583		<10	<1	0.29	20	0.80	200	1	0.01	22	670	5	2.33	13	13	45
E444584		10	<1	0.35	20	0.94	243	3	<0.01	25	640	14	1.07	7	12	27
E444585		<10	<1	0.19	10	0.51	285	3	<0.01	35	500	66	0.67	5	5	21
E444586		10	<1	0.46	10	1.48	425	2	<0.01	124	380	5	1.20	6	12	155
E444587		10	<1	0.42	10	1.07	259	2	<0.01	45	530	2	1.29	2	12	97
E444588		10	<1	0.49	10	1.15	204	1	0.01	14	360	13	1.62	4	15	62
E444589		<10	<1	0.13	10	0.42	99	1	<0.01	3	190	19	0.76	7	3	77
E444590		<10	<1	0.01	<10	0.48	89	<1	<0.01	<1	70	<2	0.01	2	<1	96
E444591		10	<1	0.35	20	1.13	181	4	<0.01	16	610	4	2.00	26	11	95

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444552		<20	0.10	<10	<10	62	<10	21
E444553		<20	0.12	<10	<10	117	<10	29
E444554		<20	0.02	<10	<10	63	<10	12
E444555		<20	0.08	<10	<10	118	<10	25
E444556		<20	0.13	<10	<10	70	<10	32
E444557		<20	0.05	<10	<10	22	<10	20
E444558		20	<0.01	<10	<10	7	<10	23
E444559		30	<0.01	<10	<10	4	<10	23
E444560		<20	0.04	<10	<10	30	<10	429
E444561		20	<0.01	<10	<10	5	<10	37
E444562		<20	<0.01	<10	<10	17	<10	43
E444563		<20	<0.01	10	<10	19	<10	46
E444564		20	<0.01	<10	<10	4	<10	23
E444565		20	<0.01	<10	<10	10	<10	11
E444566		20	<0.01	<10	<10	25	<10	11
E444567		<20	0.03	<10	<10	71	<10	17
E444568		<20	<0.01	<10	<10	43	<10	35
E444569		<20	0.03	<10	<10	71	<10	32
E444570		<20	<0.01	<10	<10	1	<10	2
E444571		<20	0.09	<10	<10	127	<10	18
E444572		<20	0.06	<10	<10	104	<10	19
E444573		<20	0.01	<10	<10	17	<10	7
E444574		<20	<0.01	<10	<10	9	<10	11
E444575		<20	<0.01	<10	<10	12	<10	9
E444576		<20	<0.01	<10	<10	19	<10	6
E444577		<20	0.03	<10	<10	66	<10	10
E444578		<20	<0.01	<10	<10	14	<10	16
E444579		<20	0.02	<10	<10	32	<10	15
E444580		<20	0.04	<10	<10	31	<10	425
E444581		<20	0.06	<10	<10	47	<10	22
E444582		<20	0.08	<10	<10	71	<10	17
E444583		<20	0.02	<10	<10	43	<10	18
E444584		<20	0.04	<10	<10	61	<10	27
E444585		<20	0.02	<10	<10	46	<10	187
E444586		<20	0.04	<10	<10	74	<10	34
E444587		<20	0.05	<10	<10	89	<10	16
E444588		<20	0.05	<10	<10	90	<10	23
E444589		<20	<0.01	<10	<10	10	<10	26
E444590		<20	<0.01	<10	<10	<1	<10	3
E444591		<20	0.03	<10	<10	56	<10	17

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444592		5.88	0.115	<0.2	1.74	139	<10	90	0.9	6	1.30	<0.5	12	43	211	4.26
E444593		6.67	0.191	0.2	1.95	88	<10	120	0.7	2	1.01	<0.5	13	27	304	4.83
E444594		7.07	0.137	0.2	1.93	18	<10	100	0.5	5	0.58	<0.5	17	69	321	5.25
E444595		6.18	0.209	<0.2	1.20	11	<10	60	0.6	3	1.21	<0.5	10	59	133	3.12
E444596		6.31	0.137	0.2	0.30	12	<10	40	<0.5	5	1.37	<0.5	5	6	93	1.15
E444597		6.31	0.127	0.4	0.69	27	<10	60	<0.5	<2	1.15	<0.5	6	7	155	2.12
E444598		7.24	0.105	0.3	0.69	41	<10	50	0.5	3	0.72	<0.5	17	10	408	4.07
E444599		6.70	0.087	0.2	0.66	93	<10	140	0.8	8	2.63	<0.5	14	15	238	3.05
E444600		0.06	0.341	2.7	1.76	28	<10	60	<0.5	3	0.85	2.2	12	29	2530	4.48
E444601		6.99	0.056	<0.2	1.03	132	<10	30	1.1	<2	3.21	<0.5	15	68	66	2.79
E444602		7.22	0.139	0.2	0.90	322	<10	20	1.8	4	5.64	<0.5	26	39	335	6.78
E444603		6.73	0.097	0.2	0.98	238	<10	30	2.3	8	9.2	<0.5	24	22	277	7.02
E444604		6.30	0.042	<0.2	1.71	31	<10	40	0.7	2	1.83	<0.5	13	41	99	3.25
E444605		6.26	0.035	<0.2	1.50	25	<10	30	<0.5	3	1.14	<0.5	11	37	100	3.25
E444606		6.62	0.101	<0.2	2.26	29	<10	50	0.7	<2	1.69	<0.5	16	28	247	5.64
E444607		6.06	0.148	<0.2	1.43	24	<10	20	0.6	3	0.96	<0.5	13	31	189	3.62
E444608		5.21	0.067	0.3	1.16	29	<10	20	1.0	5	1.92	<0.5	12	29	151	3.87
E444609		6.63	0.035	0.2	0.96	25	<10	20	0.9	<2	1.32	<0.5	15	31	172	4.43
E444610		0.44	<0.005	0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	5	0.11
E444611		6.77	0.028	0.2	1.43	17	<10	30	0.5	<2	1.84	<0.5	14	44	155	3.54
E444612		7.30	0.271	0.2	2.00	44	<10	40	1.3	2	2.71	<0.5	20	52	237	6.05
E444613		4.28	0.125	0.2	0.99	77	<10	40	1.1	4	1.80	<0.5	27	44	270	5.92
E444614		6.00	0.034	0.2	0.55	84	<10	20	0.8	5	1.14	<0.5	28	22	286	4.66
E444615		6.80	0.014	0.3	0.40	202	<10	20	0.6	3	1.25	1.0	21	3	334	3.44
E444616		4.94	0.028	0.2	0.50	37	<10	30	0.7	<2	1.21	1.7	18	21	339	3.34
E444617		5.29	0.040	0.7	0.50	257	<10	30	0.8	6	1.60	1.0	31	20	854	5.60
E444618		5.13	0.029	0.4	0.44	55	<10	30	0.7	9	1.90	<0.5	19	3	426	3.32
E444619		4.77	0.020	0.5	0.47	206	<10	40	0.6	15	1.84	0.6	17	3	428	2.80
E444620		0.06	0.709	3.1	1.20	13	<10	120	<0.5	<2	0.80	<0.5	11	48	7940	2.53
E444621		5.29	0.070	0.5	0.44	121	<10	50	0.6	15	1.75	<0.5	15	3	490	2.82
E444622		4.49	0.099	1.1	1.06	159	<10	70	1.1	21	1.88	<0.5	22	47	1175	5.73
E444623		6.26	0.015	0.3	0.38	57	<10	30	<0.5	3	1.32	<0.5	9	5	260	2.10
E444624		6.51	0.013	0.2	0.69	358	<10	120	0.6	<2	1.81	<0.5	8	6	210	2.67
E444625		6.40	0.038	0.3	0.55	76	<10	20	0.5	<2	0.71	<0.5	10	6	402	2.68
E444626		6.35	0.038	0.4	0.50	125	<10	40	<0.5	2	0.85	<0.5	11	8	501	2.61
E444627		6.56	0.024	0.3	1.40	57	<10	50	0.5	<2	0.50	<0.5	10	15	318	3.83
E444628		7.01	0.086	0.3	1.71	108	<10	50	0.5	5	0.74	<0.5	11	27	310	4.92
E444629		6.91	0.116	0.2	1.62	1025	<10	70	0.5	14	0.92	<0.5	8	20	242	4.51
E444630		0.45	<0.005	0.3	0.03	2	<10	10	<0.5	3	>25.0	<0.5	<1	1	2	0.12
E444631		6.32	0.024	0.2	0.60	212	<10	230	<0.5	<2	0.86	<0.5	7	8	210	2.25

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444592		10	<1	0.97	20	1.48	147	1	<0.01	14	580	2	1.17	6	12	46
E444593		10	<1	1.11	20	1.77	152	16	0.03	15	600	4	1.42	3	11	40
E444594		10	<1	1.02	20	1.63	150	<1	0.06	25	890	<2	1.74	2	15	29
E444595		10	<1	0.34	20	0.97	159	14	0.05	25	970	2	0.90	3	5	38
E444596		<10	<1	0.11	<10	0.11	58	<1	0.03	1	60	6	0.60	<2	<1	51
E444597		<10	<1	0.12	20	0.38	75	<1	0.04	1	280	4	0.89	<2	3	56
E444598		<10	<1	0.15	10	0.36	81	5	0.02	4	300	5	2.32	3	4	32
E444599		<10	<1	0.15	10	0.65	170	2	0.01	8	250	3	1.15	7	8	78
E444600		<10	1	0.31	<10	0.57	754	244	0.05	20	740	77	2.19	<2	2	57
E444601		<10	<1	0.20	10	0.94	332	1	0.05	32	660	2	0.34	<2	13	103
E444602		<10	<1	0.20	10	1.52	611	1	0.01	56	790	2	1.97	7	11	177
E444603		10	1	0.13	10	1.31	1160	11	0.01	33	930	3	1.42	<2	10	296
E444604		10	<1	0.46	10	1.23	292	1	0.14	25	680	2	0.58	<2	9	69
E444605		10	<1	0.66	10	1.32	184	29	0.06	19	890	2	0.64	<2	8	32
E444606		10	<1	1.17	20	2.07	265	5	0.06	25	1200	2	1.39	<2	13	74
E444607		10	<1	0.49	10	1.22	157	1	0.01	22	600	2	1.00	<2	8	37
E444608		10	<1	0.28	20	0.99	274	5	0.01	23	450	<2	1.15	2	7	64
E444609		<10	<1	0.16	20	1.02	367	2	0.04	24	400	<2	1.15	<2	9	64
E444610		<10	<1	0.01	<10	0.42	81	<1	<0.01	<1	70	<2	0.02	<2	<1	90
E444611		10	<1	0.45	10	1.30	272	2	0.09	27	540	2	0.79	<2	9	56
E444612		10	<1	0.84	10	1.94	397	2	0.01	32	400	2	1.34	2	18	85
E444613		<10	<1	0.10	20	1.27	643	2	<0.01	45	620	2	1.44	<2	13	62
E444614		<10	<1	0.14	20	0.72	533	1	<0.01	32	500	8	1.37	7	6	65
E444615		<10	<1	0.18	20	0.58	482	1	<0.01	13	800	22	1.12	18	2	105
E444616		<10	<1	0.17	20	0.70	493	3	<0.01	27	730	12	0.78	9	4	98
E444617		<10	<1	0.17	20	0.90	477	3	<0.01	35	810	7	2.33	26	5	110
E444618		<10	<1	0.15	20	0.82	372	2	<0.01	11	900	8	1.10	12	2	156
E444619		<10	<1	0.16	20	0.79	260	2	<0.01	9	890	5	1.02	39	2	147
E444620		<10	<1	0.10	<10	0.56	393	389	0.08	33	530	6	0.62	2	4	40
E444621		<10	<1	0.15	20	0.74	252	2	<0.01	9	820	8	1.08	19	2	147
E444622		<10	<1	0.28	30	1.33	218	3	<0.01	42	730	4	2.03	7	13	84
E444623		<10	<1	0.11	20	0.58	178	1	<0.01	5	200	9	0.74	15	2	67
E444624		<10	<1	0.27	20	0.98	165	1	0.01	4	260	10	0.97	16	5	83
E444625		<10	<1	0.16	20	0.49	66	<1	0.03	2	290	2	1.22	9	5	29
E444626		<10	<1	0.16	20	0.39	83	<1	0.03	4	220	7	1.36	5	4	31
E444627		10	<1	0.76	30	1.27	105	<1	0.06	7	440	2	1.29	4	9	20
E444628		10	<1	0.78	20	1.75	188	1	0.06	9	550	3	1.46	<2	11	25
E444629		10	<1	0.87	20	1.66	202	1	0.05	8	870	26	1.20	2	11	37
E444630		<10	1	0.01	<10	1.73	126	<1	<0.01	<1	70	<2	0.01	2	<1	77
E444631		<10	<1	0.29	20	0.58	87	4	0.03	2	230	6	0.81	5	4	37

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444592		<20	0.11	<10	<10	71	<10	17
E444593		<20	0.14	<10	<10	84	<10	20
E444594		<20	0.14	<10	<10	124	<10	17
E444595		<20	0.07	<10	<10	55	<10	17
E444596		<20	<0.01	<10	<10	4	<10	8
E444597		<20	0.01	<10	<10	11	<10	9
E444598		<20	<0.01	<10	<10	21	<10	8
E444599		<20	0.01	<10	<10	25	<10	12
E444600		<20	0.05	<10	<10	32	<10	443
E444601		<20	0.05	<10	<10	56	<10	26
E444602		<20	0.02	<10	<10	64	<10	34
E444603		<20	0.02	<10	<10	68	<10	60
E444604		<20	0.15	<10	<10	77	<10	22
E444605		<20	0.13	<10	<10	106	<10	18
E444606		<20	0.18	<10	<10	154	<10	24
E444607		<20	0.07	<10	<10	76	<10	16
E444608		<20	0.03	<10	<10	67	<10	16
E444609		<20	0.06	<10	<10	62	<10	26
E444610		<20	<0.01	<10	<10	1	<10	<2
E444611		<20	0.18	<10	<10	75	<10	26
E444612		<20	0.09	<10	<10	118	<10	34
E444613		<20	0.01	<10	<10	76	<10	50
E444614		<20	<0.01	<10	<10	20	<10	43
E444615		<20	<0.01	<10	<10	6	<10	84
E444616		<20	<0.01	<10	<10	16	<10	56
E444617		<20	<0.01	<10	<10	23	<10	40
E444618		<20	<0.01	<10	<10	6	<10	30
E444619		<20	<0.01	<10	<10	5	<10	25
E444620		<20	0.11	<10	<10	51	30	58
E444621		<20	<0.01	<10	<10	6	<10	37
E444622		20	0.02	<10	<10	57	<10	26
E444623		<20	<0.01	<10	<10	3	<10	34
E444624		<20	0.02	<10	<10	16	<10	27
E444625		<20	0.01	<10	<10	11	<10	9
E444626		<20	0.01	<10	<10	7	<10	26
E444627		<20	0.10	<10	<10	43	<10	12
E444628		<20	0.11	<10	<10	75	<10	21
E444629		<20	0.12	<10	<10	78	10	29
E444630		<20	<0.01	<10	<10	<1	<10	<2
E444631		<20	0.03	<10	<10	16	<10	12

Comments: **Corrected copy for Au- AA23 on samples E444491 to E444509**

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168272

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17168300

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 189 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E444632		6.98	0.009	0.2	0.29	123	<10	20	<0.5	2	0.94	<0.5	5	6	153	1.69
E444633		6.72	0.006	<0.2	0.52	6	<10	30	<0.5	<2	0.57	<0.5	5	9	133	1.83
E444634		6.58	0.048	0.2	0.77	11	<10	40	<0.5	<2	0.61	<0.5	5	12	155	2.08
E444635		6.78	0.006	0.2	0.69	6	<10	40	<0.5	<2	0.49	<0.5	6	10	213	2.09
E444636		6.75	0.061	0.4	0.77	16	<10	40	<0.5	<2	0.59	<0.5	7	18	263	2.32
E444637		6.58	0.044	0.8	1.39	165	<10	30	0.7	<2	1.06	<0.5	16	50	614	4.79
E444638		7.35	0.078	0.9	1.21	82	<10	30	0.8	6	1.46	<0.5	14	45	702	4.48
E444639		6.53	0.090	0.5	0.61	248	<10	20	0.7	<2	1.49	<0.5	12	9	453	3.62
E444640		0.06	0.332	2.6	1.67	28	<10	60	<0.5	4	0.83	2.0	11	29	2460	4.34
E444641		6.52	0.064	0.4	1.54	123	<10	30	0.5	2	0.68	<0.5	13	17	423	4.17
E444642		6.62	0.098	0.5	1.53	24	<10	30	<0.5	3	0.55	<0.5	13	17	522	3.98
E444643		6.80	0.539	0.2	1.33	20	<10	50	<0.5	5	0.59	<0.5	7	20	232	2.57
E444644		6.97	<0.005	0.2	0.42	213	<10	70	0.5	2	1.25	<0.5	3	7	95	1.32
E444645		5.99	0.005	<0.2	0.48	140	<10	70	<0.5	<2	0.83	<0.5	4	14	106	1.41
E444646		6.74	0.007	0.4	0.31	1010	<10	20	0.5	5	1.05	<0.5	7	7	289	1.79
E444647		6.82	0.006	0.2	0.47	314	<10	20	0.5	<2	1.02	<0.5	4	5	128	1.40
E444648		6.36	0.014	0.3	1.14	47	<10	30	0.7	4	0.76	<0.5	10	36	277	2.98
E444649		6.69	0.009	<0.2	1.01	8	<10	50	0.5	2	0.64	<0.5	7	22	178	2.48
E444650		0.38	<0.005	0.3	0.04	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	2	0.11
E444651		6.44	<0.005	<0.2	0.60	10	<10	30	<0.5	2	0.83	<0.5	3	14	147	1.40
E444652		6.49	0.011	<0.2	0.83	18	<10	30	<0.5	<2	0.71	<0.5	8	19	217	2.44
E444653		6.87	0.021	0.4	0.96	22	<10	30	0.5	<2	0.60	<0.5	9	12	405	3.10
E444654		6.70	0.044	0.5	0.83	56	<10	30	0.7	2	1.62	<0.5	12	7	585	3.83
E444655		6.45	0.013	0.5	0.82	28	<10	40	<0.5	2	1.31	<0.5	10	6	448	3.20
E444656		7.05	0.022	<0.2	2.44	139	<10	120	<0.5	3	1.51	<0.5	16	36	124	4.56
E444657		6.99	0.045	0.3	2.51	54	<10	190	<0.5	11	1.13	<0.5	16	26	274	5.41
E444658		7.26	0.069	0.6	2.10	22	<10	80	<0.5	5	1.50	<0.5	13	31	495	4.93
E444659		6.36	0.035	0.4	2.47	16	<10	90	<0.5	7	0.99	<0.5	16	63	415	4.91
E444660		0.06	0.297	2.6	1.75	28	<10	60	<0.5	2	0.85	2.2	11	30	2600	4.53
E444661		6.82	0.018	<0.2	1.65	14	<10	60	<0.5	2	0.82	<0.5	12	38	98	3.00
E444662		6.79	0.061	0.2	3.31	13	<10	120	<0.5	2	1.17	<0.5	26	71	209	5.84
E444663		6.29	0.112	0.5	2.97	2760	<10	80	<0.5	3	0.76	<0.5	37	74	395	5.79
E444664		6.66	0.112	0.4	3.30	18	<10	90	<0.5	5	0.92	<0.5	27	86	421	6.21
E444665		6.75	0.068	0.3	2.78	13	<10	60	<0.5	2	1.29	<0.5	15	55	235	5.03
E444666		6.18	0.030	0.2	2.73	10	<10	100	<0.5	8	1.61	<0.5	17	55	222	5.14
E444667		6.70	0.023	0.6	1.07	53	<10	70	0.9	7	2.96	<0.5	13	23	371	2.89
E444668		6.15	0.102	1.9	0.42	1345	<10	30	0.8	50	4.67	0.6	6	13	823	2.97
E444669		6.03	0.019	0.4	0.66	163	<10	120	0.8	3	3.08	<0.5	8	17	235	2.26
E444670		0.56	<0.005	0.2	0.05	4	<10	20	<0.5	4	>25.0	<0.5	1	1	15	0.19
E444671		5.46	0.011	0.2	0.60	71	<10	180	0.6	<2	1.85	0.5	6	25	130	2.02

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444632		<10	<1	0.12	20	0.37	73	<1	0.03	2	110	3	0.64	3	2	42
E444633		<10	<1	0.18	30	0.47	61	<1	0.04	2	120	3	0.56	<2	4	28
E444634		<10	<1	0.26	30	0.58	72	2	0.04	7	200	2	0.62	<2	5	22
E444635		<10	<1	0.34	30	0.63	72	2	0.03	3	170	3	0.65	<2	5	19
E444636		<10	<1	0.47	30	0.72	101	10	0.04	5	270	4	0.71	<2	5	22
E444637		10	<1	0.89	30	1.62	147	1	0.03	24	610	13	1.40	5	11	47
E444638		10	<1	0.75	30	1.61	133	9	0.03	18	620	2	1.33	2	10	73
E444639		<10	<1	0.18	20	0.87	96	4	0.01	6	480	2	1.17	34	8	72
E444640		<10	<1	0.29	<10	0.56	726	221	0.05	20	730	73	2.13	2	2	54
E444641		10	<1	0.53	20	1.33	111	1	0.05	8	520	4	1.41	<2	10	29
E444642		10	<1	0.52	20	1.32	103	3	0.05	7	510	2	1.37	<2	10	21
E444643		10	<1	0.65	20	1.08	115	4	0.05	7	320	8	0.64	<2	8	27
E444644		<10	<1	0.15	20	0.46	68	3	0.01	3	80	7	0.32	7	3	49
E444645		<10	<1	0.23	20	0.38	60	3	0.03	6	110	3	0.50	5	3	39
E444646		<10	<1	0.11	20	0.38	81	1	0.03	3	160	10	0.71	15	3	47
E444647		<10	<1	0.12	20	0.35	63	1	0.03	3	150	4	0.52	14	2	45
E444648		10	<1	0.42	30	0.95	110	2	0.01	16	470	10	0.94	3	9	44
E444649		10	<1	0.45	20	0.84	95	3	0.04	10	370	4	0.63	3	8	30
E444650		<10	1	0.01	<10	0.41	83	<1	<0.01	<1	70	2	0.01	<2	<1	86
E444651		<10	<1	0.19	20	0.46	77	1	0.04	5	150	5	0.34	<2	3	32
E444652		10	<1	0.31	20	0.69	80	2	0.04	7	330	2	0.76	2	5	23
E444653		10	<1	0.37	20	0.81	92	11	0.04	6	590	<2	0.97	2	7	22
E444654		<10	<1	0.19	30	0.71	120	6	0.01	10	530	3	1.26	10	7	53
E444655		<10	<1	0.30	20	0.87	102	2	0.05	5	500	3	1.11	2	6	47
E444656		10	<1	1.40	10	2.01	211	<1	0.15	12	490	2	0.52	2	19	84
E444657		10	<1	1.58	10	2.04	208	<1	0.12	11	680	2	1.02	<2	22	53
E444658		10	<1	1.30	10	2.04	224	1	0.12	14	510	3	0.92	<2	17	55
E444659		10	<1	1.30	10	1.94	190	78	0.16	21	460	<2	1.18	<2	17	42
E444660		<10	1	0.31	<10	0.58	754	236	0.05	22	750	76	2.20	<2	2	57
E444661		10	<1	0.76	30	1.29	139	<1	0.12	16	450	2	0.50	<2	8	31
E444662		10	<1	1.59	10	2.35	212	<1	0.22	26	510	<2	1.20	<2	21	73
E444663		10	<1	1.61	10	2.28	196	2	0.17	27	460	<2	1.46	<2	24	51
E444664		10	<1	1.83	10	2.43	224	1	0.20	35	520	<2	1.42	<2	27	58
E444665		10	1	1.69	10	2.38	224	8	0.15	23	450	<2	0.72	<2	21	54
E444666		10	<1	1.79	10	2.37	218	1	0.09	22	480	<2	0.75	<2	22	68
E444667		10	<1	0.36	20	0.87	151	1	0.01	15	290	3	0.87	2	10	107
E444668		<10	1	0.18	20	1.32	252	1	<0.01	17	250	29	1.37	24	4	163
E444669		<10	<1	0.19	30	1.17	153	2	<0.01	22	370	6	0.46	8	5	115
E444670		<10	<1	0.03	<10	1.13	120	<1	<0.01	<1	80	<2	0.06	2	<1	91
E444671		<10	<1	0.21	20	0.75	147	1	<0.01	18	320	16	0.32	4	4	76

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444632		<20	<0.01	<10	<10	2	<10	8
E444633		<20	0.01	<10	<10	11	<10	7
E444634		<20	0.02	<10	<10	42	<10	9
E444635		<20	0.03	<10	<10	14	<10	11
E444636		20	0.06	<10	<10	25	40	16
E444637		<20	0.11	<10	<10	74	10	39
E444638		20	0.09	<10	<10	62	<10	20
E444639		<20	0.02	<10	<10	41	<10	13
E444640		<20	0.04	<10	<10	31	<10	428
E444641		<20	0.09	<10	<10	85	<10	19
E444642		<20	0.09	<10	<10	88	<10	17
E444643		<20	0.08	<10	<10	49	<10	23
E444644		<20	<0.01	<10	<10	5	<10	20
E444645		<20	0.01	<10	<10	9	<10	8
E444646		<20	<0.01	<10	<10	6	10	29
E444647		<20	<0.01	<10	<10	5	<10	8
E444648		<20	0.04	<10	<10	42	<10	31
E444649		<20	0.06	<10	<10	38	<10	14
E444650		<20	<0.01	<10	<10	1	<10	<2
E444651		<20	0.01	<10	<10	11	<10	15
E444652		<20	0.04	<10	<10	25	10	9
E444653		<20	0.05	<10	<10	35	10	12
E444654		<20	0.01	<10	<10	31	<10	17
E444655		<20	0.03	<10	<10	24	<10	15
E444656		<20	0.19	<10	<10	130	<10	27
E444657		<20	0.21	<10	<10	146	<10	25
E444658		<20	0.17	<10	<10	134	<10	38
E444659		<20	0.19	<10	<10	150	<10	28
E444660		<20	0.04	<10	<10	33	<10	437
E444661		<20	0.13	<10	<10	106	<10	16
E444662		<20	0.22	<10	<10	203	<10	27
E444663		<20	0.21	<10	<10	192	<10	25
E444664		<20	0.24	<10	<10	232	<10	33
E444665		<20	0.22	<10	<10	190	<10	30
E444666		<20	0.22	<10	<10	178	<10	31
E444667		<20	0.03	<10	<10	51	<10	18
E444668		<20	<0.01	<10	<10	15	<10	46
E444669		20	0.01	<10	<10	19	<10	21
E444670		<20	<0.01	<10	<10	1	<10	<2
E444671		<20	0.01	<10	<10	21	<10	50

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444672		6.42	0.007	0.2	0.85	212	<10	40	0.6	<2	1.22	<0.5	8	27	128	2.15
E444673		6.52	0.006	0.2	1.46	531	<10	70	0.6	<2	0.84	<0.5	10	42	157	2.79
E444674		6.39	0.025	0.2	1.18	194	<10	40	0.6	2	1.22	<0.5	9	30	157	2.37
E444675		5.82	0.041	0.4	0.82	244	<10	30	0.6	11	1.43	<0.5	7	6	328	2.02
E444676		6.29	0.149	0.4	0.40	66	<10	80	0.6	8	1.65	<0.5	7	7	245	1.93
E444677		6.81	0.023	0.9	0.61	34	<10	50	0.6	5	1.23	1.1	5	19	206	2.03
E444678		6.60	0.006	<0.2	0.81	51	<10	40	0.5	<2	0.99	<0.5	6	27	54	1.93
E444679		6.40	0.012	<0.2	0.72	44	<10	30	0.6	<2	1.21	<0.5	7	26	62	2.36
E444680		0.06	0.319	2.7	1.70	28	<10	60	<0.5	<2	0.82	2.1	11	29	2480	4.39
E444681		6.45	0.057	0.3	1.04	22	<10	60	0.6	3	0.62	<0.5	7	33	217	2.30
E444682		6.78	0.019	0.3	0.79	25	<10	60	0.6	3	1.01	<0.5	6	24	259	1.97
E444683		6.62	0.024	0.3	1.23	58	<10	100	0.6	<2	0.89	1.1	8	35	222	2.74
E444684		6.58	0.012	0.3	1.85	91	<10	140	0.6	9	0.76	<0.5	12	51	241	3.66
E444685		6.56	0.025	0.4	0.67	578	<10	60	0.6	8	1.08	0.5	5	16	404	1.79
E444686		6.51	0.007	0.2	0.67	379	<10	70	0.5	<2	0.99	<0.5	4	21	112	1.77
E444687		5.81	0.033	0.6	0.64	641	<10	60	0.6	10	1.06	0.6	5	17	453	1.80
E444688		6.09	0.044	0.5	0.90	146	<10	110	0.8	5	1.11	<0.5	10	26	582	2.58
E444689		6.36	0.009	1.0	0.23	224	<10	30	<0.5	80	2.08	1.0	8	3	601	2.09
E444690		0.33	<0.005	0.2	0.02	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	3	0.11
E444691		8.26	0.018	0.5	0.29	140	<10	40	<0.5	24	1.51	0.8	6	7	339	1.72
E444692		4.39	0.090	0.2	1.51	46	<10	110	1.7	3	0.27	<0.5	23	12	460	5.35
E444693		7.86	0.535	1.0	0.62	34	<10	10	0.8	20	0.10	<0.5	16	15	468	5.74
E444694		5.61	0.146	0.4	1.14	24	<10	20	1.2	6	0.50	<0.5	23	26	422	6.59
E444695		6.22	0.119	1.5	1.26	18	<10	20	1.6	6	0.58	<0.5	22	20	268	5.98
E444696		7.17	0.269	0.3	1.62	21	<10	20	1.4	6	0.47	<0.5	25	22	365	6.39
E444697		8.06	0.140	0.6	1.05	14	<10	10	0.8	4	0.41	<0.5	18	17	443	4.87
E444698		4.15	0.140	0.7	1.65	19	<10	20	1.1	4	0.50	<0.5	19	26	346	5.86
E444699		7.18	0.247	0.4	1.70	34	<10	20	1.1	8	0.46	<0.5	22	27	351	6.67
E444700		0.06	0.323	2.7	1.73	27	<10	60	<0.5	2	0.83	2.2	12	29	2510	4.46
E444701		6.43	0.416	0.3	0.93	54	<10	<10	0.6	10	0.27	0.6	21	21	541	5.90
E444702		4.82	0.092	1.0	0.53	62	<10	20	0.6	8	0.23	1.9	27	9	1350	5.89
E444703		5.95	0.039	0.5	0.36	99	<10	20	<0.5	9	0.15	<0.5	7	3	1350	1.02
E444704		8.00	0.023	0.6	0.43	123	<10	20	<0.5	3	0.16	<0.5	9	4	1660	1.36
E444705		9.41	0.086	0.5	0.57	57	<10	70	0.9	8	0.34	1.0	28	12	832	7.02
E444706		6.97	0.220	0.8	0.71	36	<10	20	0.9	14	0.39	<0.5	22	10	766	6.49
E444707		7.48	0.032	0.5	0.96	52	<10	40	0.9	3	0.59	<0.5	16	16	692	5.46
E444708		8.22	0.034	0.5	1.32	20	<10	20	0.7	2	2.61	<0.5	16	25	489	4.93
E444709		10.02	0.013	0.2	0.81	23	<10	30	0.7	<2	4.59	<0.5	18	12	209	4.28
E444710		0.34	<0.005	<0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	6	0.13
E444711		9.62	0.027	0.2	0.73	21	<10	30	0.9	<2	1.92	<0.5	22	10	270	3.85

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444672		<10	<1	0.33	20	0.63	133	3	0.01	18	270	11	0.42	3	4	47
E444673		10	<1	0.75	30	0.86	150	1	0.03	27	330	6	0.53	6	4	37
E444674		<10	<1	0.57	30	0.82	131	2	<0.01	23	500	5	0.47	10	4	48
E444675		<10	<1	0.13	30	0.61	103	29	0.01	6	720	14	0.67	12	2	83
E444676		<10	<1	0.16	30	0.57	96	12	0.02	8	690	10	0.56	4	2	92
E444677		<10	<1	0.25	20	0.68	152	5	0.02	15	470	167	0.46	<2	3	75
E444678		<10	<1	0.44	20	0.59	118	1	0.01	21	280	6	0.27	2	3	67
E444679		<10	<1	0.40	20	0.71	158	14	<0.01	24	390	11	0.31	<2	3	52
E444680		<10	<1	0.29	<10	0.56	733	233	0.05	21	730	75	2.15	<2	2	54
E444681		<10	<1	0.60	20	0.64	151	5	0.01	25	240	6	0.36	<2	3	72
E444682		<10	<1	0.43	30	0.70	117	9	0.02	30	580	14	0.46	<2	3	53
E444683		10	<1	0.72	30	0.99	134	6	0.04	24	670	6	0.52	<2	7	53
E444684		10	<1	1.11	20	1.21	188	2	0.04	26	470	24	0.53	<2	8	37
E444685		<10	<1	0.25	20	0.46	110	172	0.02	9	200	12	0.42	9	3	61
E444686		<10	<1	0.32	20	0.43	105	13	0.05	10	210	7	0.40	3	3	57
E444687		<10	<1	0.25	20	0.48	107	197	0.02	10	200	14	0.43	12	3	59
E444688		<10	<1	0.26	30	0.65	156	39	<0.01	29	490	8	0.79	8	6	63
E444689		<10	<1	0.14	10	0.69	174	5	<0.01	2	530	72	0.92	12	2	128
E444690		<10	<1	<0.01	<10	0.54	96	<1	<0.01	<1	70	<2	0.01	<2	<1	83
E444691		<10	<1	0.11	10	0.59	141	8	<0.01	5	380	35	0.66	9	2	87
E444692		<10	<1	0.24	10	0.39	436	2	<0.01	26	650	2	0.49	7	15	15
E444693		<10	<1	0.11	10	0.17	234	<1	<0.01	15	450	3	1.29	18	13	11
E444694		<10	<1	0.22	20	0.72	540	1	<0.01	26	440	3	2.64	12	18	18
E444695		<10	<1	0.33	10	0.87	641	1	0.01	22	430	<2	1.41	4	14	21
E444696		10	<1	0.45	20	0.98	573	2	<0.01	23	350	<2	2.07	6	16	18
E444697		<10	<1	0.15	20	0.70	317	<1	<0.01	16	410	<2	1.62	2	14	16
E444698		10	<1	0.50	10	1.18	373	1	<0.01	17	490	2	1.78	7	16	21
E444699		10	<1	0.36	10	1.22	371	1	<0.01	19	490	2	2.23	<2	19	19
E444700		<10	<1	0.29	<10	0.57	736	234	0.05	21	750	75	2.18	<2	2	56
E444701		<10	<1	0.09	10	0.70	273	<1	<0.01	18	500	3	2.64	3	16	8
E444702		<10	<1	0.10	30	0.24	383	1	<0.01	17	500	5	3.04	7	11	6
E444703		<10	<1	0.16	20	0.04	44	2	<0.01	7	560	6	0.77	7	2	7
E444704		<10	1	0.14	20	0.05	55	2	<0.01	8	590	8	0.97	9	3	7
E444705		<10	<1	0.08	10	0.44	549	1	<0.01	21	450	3	2.63	14	17	9
E444706		<10	<1	0.08	10	0.56	445	1	<0.01	24	530	3	2.26	5	18	12
E444707		<10	<1	0.09	10	0.69	364	1	<0.01	18	500	3	2.00	6	15	21
E444708		10	<1	0.28	10	1.10	228	<1	0.01	15	430	2	1.85	4	16	66
E444709		<10	<1	0.26	10	0.92	346	2	<0.01	12	380	2	1.39	6	13	112
E444710		<10	<1	0.01	<10	1.02	136	<1	<0.01	<1	70	<2	0.02	<2	<1	80
E444711		<10	<1	0.33	10	0.94	327	6	<0.01	16	410	3	1.13	4	14	48

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444672		<20	0.03	<10	<10	23	<10	35
E444673		20	0.10	<10	<10	37	<10	25
E444674		<20	0.06	<10	<10	27	<10	20
E444675		<20	<0.01	<10	<10	14	<10	38
E444676		<20	<0.01	<10	<10	12	<10	22
E444677		<20	0.02	<10	<10	19	<10	136
E444678		<20	0.04	<10	<10	21	<10	15
E444679		<20	0.04	<10	<10	22	<10	32
E444680		<20	0.04	<10	<10	31	<10	440
E444681		<20	0.06	<10	<10	25	<10	27
E444682		<20	0.03	<10	<10	23	<10	35
E444683		<20	0.09	<10	<10	49	<10	133
E444684		<20	0.15	<10	<10	64	<10	43
E444685		<20	0.03	<10	<10	16	10	54
E444686		<20	0.04	<10	<10	19	<10	15
E444687		<20	0.03	<10	<10	17	10	62
E444688		<20	0.02	<10	<10	27	<10	34
E444689		<20	<0.01	<10	<10	4	<10	87
E444690		<20	<0.01	<10	<10	<1	<10	2
E444691		<20	<0.01	<10	<10	5	<10	71
E444692		<20	0.02	<10	<10	87	<10	44
E444693		<20	0.01	<10	<10	86	<10	33
E444694		<20	0.01	<10	<10	111	10	23
E444695		<20	0.02	<10	<10	85	10	33
E444696		<20	0.03	<10	<10	108	<10	34
E444697		<20	0.01	<10	<10	77	<10	18
E444698		<20	0.04	<10	<10	110	<10	34
E444699		<20	0.03	<10	<10	125	<10	33
E444700		<20	0.04	<10	<10	32	<10	437
E444701		<20	<0.01	<10	<10	84	<10	26
E444702		<20	<0.01	<10	<10	40	<10	30
E444703		<20	<0.01	<10	<10	9	<10	20
E444704		<20	<0.01	<10	<10	13	<10	15
E444705		<20	<0.01	<10	<10	76	<10	40
E444706		<20	<0.01	<10	<10	76	<10	27
E444707		<20	<0.01	<10	<10	83	<10	32
E444708		<20	0.03	<10	<10	101	<10	20
E444709		<20	0.01	<10	<10	58	<10	23
E444710		<20	<0.01	<10	<10	1	<10	2
E444711		<20	0.01	<10	<10	63	<10	20

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444712		8.17	0.058	0.2	0.51	19	<10	30	0.8	4	3.50	<0.5	15	10	211	3.85
E444713		7.17	0.070	0.7	0.78	42	<10	20	1.0	20	3.60	<0.5	23	15	659	4.87
E444714		9.48	0.183	1.8	0.75	74	<10	10	1.0	11	1.37	<0.5	31	20	1090	6.33
E444715		6.92	2.03	5.3	0.75	119	<10	10	0.9	37	1.45	0.5	30	7	3060	5.70
E444716		6.32	1.310	13.8	0.43	511	<10	20	0.6	106	3.07	1.1	33	9	7720	6.34
E444717		4.61	0.420	8.7	0.70	304	<10	110	0.6	92	2.74	0.5	24	15	2720	4.59
E444718		9.86	0.407	4.5	0.59	103	<10	50	0.8	55	1.81	<0.5	43	30	2650	7.00
E444719		9.48	0.029	0.5	0.82	24	<10	20	1.0	2	0.83	<0.5	18	13	465	4.49
E444720		0.06	0.330	2.7	1.71	28	10	60	<0.5	<2	0.83	2.4	11	30	2570	4.49
I027148		6.28	0.014	0.2	0.58	4	<10	120	0.6	<2	1.77	<0.5	4	12	81	1.87
I027149		5.42	0.008	0.2	0.91	7	<10	220	0.6	<2	1.14	<0.5	4	7	67	1.77
I027150		0.38	<0.005	<0.2	0.03	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	6	0.11
I027151		5.84	0.017	0.2	1.00	5	<10	80	1.1	<2	1.14	<0.5	3	4	108	1.86
I027152		6.02	0.026	0.5	0.64	3	<10	170	0.7	<2	1.97	<0.5	2	6	221	1.63
I027153		5.40	0.017	0.4	0.73	2	<10	120	0.5	<2	1.59	<0.5	3	7	156	1.59
I027154		6.04	<0.005	<0.2	0.90	3	<10	140	0.5	<2	1.29	<0.5	3	9	49	1.59
I027155		3.25	<0.005	<0.2	0.74	3	<10	190	0.8	<2	1.65	<0.5	3	5	36	1.66
I027156		4.00	0.016	<0.2	0.41	6	<10	120	0.7	<2	2.33	<0.5	2	3	19	1.63
I027157		4.87	0.023	0.3	0.51	48	<10	70	0.9	<2	3.87	<0.5	3	4	156	2.37
I027158		3.60	0.013	0.2	0.48	64	<10	420	0.9	2	3.56	<0.5	2	4	101	2.79
I027159		6.13	0.060	0.9	0.65	81	<10	170	0.9	<2	1.64	<0.5	4	8	169	2.63
I027160		0.06	0.768	3.2	1.22	14	<10	120	<0.5	4	0.80	<0.5	11	50	8160	2.59
I027161		5.54	0.046	0.7	0.99	6	<10	80	<0.5	<2	1.35	<0.5	4	10	280	2.52
I027162		5.60	0.059	0.7	1.11	10	<10	70	0.6	<2	2.08	<0.5	4	8	268	2.92
I027163		3.50	0.032	1.3	0.46	61	<10	90	0.7	2	2.68	0.5	3	5	362	3.13
I027164		5.56	0.023	0.5	0.77	13	<10	110	0.5	<2	1.54	<0.5	4	8	164	2.56
I027165		6.03	0.035	1.1	0.56	56	<10	100	0.7	2	2.14	<0.5	4	7	363	2.87
I027166		5.67	0.022	0.4	0.73	9	<10	80	<0.5	<2	1.57	<0.5	3	9	135	2.57
I027167		5.96	0.030	0.5	1.06	26	<10	100	0.6	<2	1.37	<0.5	5	11	206	2.67
I027168		2.16	0.014	0.3	0.72	24	<10	140	0.7	<2	1.71	<0.5	5	6	153	2.56
I027169		3.78	0.021	0.5	0.39	23	<10	60	0.5	2	3.16	<0.5	5	8	150	3.34
I027170		0.31	<0.005	<0.2	0.02	11	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.10
I027171		7.20	0.046	0.3	0.50	378	<10	190	0.5	6	0.07	<0.5	12	23	135	6.11
I027172		6.79	0.033	<0.2	0.51	197	<10	90	0.8	2	0.08	<0.5	19	18	104	6.23
I027173		7.32	0.142	<0.2	0.58	996	<10	210	0.6	8	0.07	<0.5	11	25	133	6.63
I027174		7.55	0.116	<0.2	0.59	1350	<10	230	<0.5	6	0.09	<0.5	4	22	222	5.86
I027175		6.65	0.070	0.3	0.41	1290	<10	310	<0.5	13	0.04	<0.5	9	4	126	5.20
I027176		6.27	0.174	0.4	0.36	9770	<10	250	<0.5	21	0.03	<0.5	6	4	285	4.37
I027177		4.82	0.479	0.3	0.39	>10000	<10	300	<0.5	76	0.03	<0.5	10	5	866	4.47
I027178		6.53	0.099	0.5	0.38	3550	<10	290	<0.5	104	0.04	<0.5	4	6	226	4.28

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
E444712		<10	<1	0.19	10	1.40	341	1	<0.01	13	390	4	0.89	4	15	95
E444713		<10	<1	0.26	10	1.60	323	2	<0.01	19	480	5	1.23	4	22	92
E444714		<10	<1	0.22	10	0.93	276	6	<0.01	20	470	3	2.63	<2	22	36
E444715		<10	<1	0.22	40	0.91	209	2	<0.01	19	510	3	2.57	7	13	39
E444716		<10	<1	0.18	10	1.09	915	1	<0.01	21	690	4	3.13	25	10	51
E444717		<10	<1	0.20	10	0.66	453	2	<0.01	20	580	4	2.31	9	9	48
E444718		<10	1	0.21	10	0.84	584	3	<0.01	35	630	4	3.66	13	11	54
E444719		<10	<1	0.28	10	0.67	179	1	<0.01	15	480	<2	1.79	3	18	19
E444720		<10	<1	0.30	<10	0.56	775	239	0.05	21	760	78	2.21	3	2	56
I027148		<10	<1	0.14	30	0.66	257	23	0.04	5	840	4	0.09	<2	5	123
I027149		10	<1	0.18	30	0.52	118	8	0.04	4	950	6	0.06	<2	3	103
I027150		<10	<1	0.01	<10	0.72	93	<1	0.01	<1	80	<2	0.01	2	<1	93
I027151		<10	1	0.17	30	0.44	91	8	0.03	4	790	7	0.07	<2	2	150
I027152		<10	<1	0.14	30	0.36	155	26	0.04	4	790	5	0.09	<2	3	150
I027153		<10	<1	0.19	30	0.46	152	144	0.05	3	920	4	0.05	2	3	109
I027154		10	<1	0.24	30	0.57	114	281	0.05	3	840	5	0.03	<2	3	110
I027155		<10	<1	0.26	30	0.58	137	129	0.03	2	830	6	0.04	3	3	172
I027156		<10	<1	0.16	30	0.67	139	10	0.01	3	760	4	0.05	<2	2	218
I027157		<10	<1	0.17	20	1.46	203	11	0.01	4	750	5	0.08	10	5	149
I027158		<10	<1	0.19	20	1.51	220	11	0.01	4	760	5	0.17	8	5	126
I027159		<10	<1	0.24	20	0.63	163	4	0.02	4	740	6	1.00	11	3	118
I027160		<10	<1	0.10	<10	0.56	413	387	0.08	35	530	6	0.63	<2	4	40
I027161		10	<1	0.29	20	0.71	169	8	0.05	5	700	4	0.18	2	5	64
I027162		10	<1	0.26	30	0.78	206	6	0.04	6	720	5	0.25	<2	6	104
I027163		<10	1	0.16	30	1.05	229	6	0.01	4	700	6	0.28	12	5	118
I027164		<10	<1	0.27	30	0.67	175	6	0.04	5	730	7	0.20	<2	6	105
I027165		<10	<1	0.20	20	0.82	181	12	0.03	5	690	7	0.49	3	5	157
I027166		<10	<1	0.25	30	0.71	184	5	0.05	5	710	5	0.13	<2	5	102
I027167		10	<1	0.25	30	0.75	161	5	0.04	5	740	6	0.25	<2	5	128
I027168		<10	<1	0.17	30	0.67	159	7	0.02	5	770	7	0.27	<2	5	169
I027169		<10	<1	0.13	20	1.14	257	19	0.01	4	680	8	0.39	2	6	227
I027170		<10	<1	<0.01	<10	0.42	86	<1	<0.01	<1	70	<2	<0.01	<2	<1	87
I027171		<10	<1	0.28	20	0.03	248	2	<0.01	11	520	6	0.50	23	12	20
I027172		<10	<1	0.22	20	0.03	403	4	<0.01	19	980	5	0.34	12	17	34
I027173		<10	<1	0.37	20	0.03	249	2	0.01	11	750	5	0.70	29	14	41
I027174		<10	1	0.54	10	0.04	87	2	0.02	5	660	3	1.07	56	8	42
I027175		<10	<1	0.59	20	0.03	253	2	0.01	6	910	6	0.88	46	4	35
I027176		<10	<1	0.66	20	0.03	122	2	0.01	2	860	27	1.07	35	2	34
I027177		<10	<1	0.53	20	0.03	264	2	0.01	5	630	12	0.80	42	3	29
I027178		<10	<1	0.61	20	0.03	117	3	0.02	3	630	4	1.08	36	2	42

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
E444712		<20	<0.01	<10	<10	56	<10	17
E444713		<20	0.01	<10	<10	89	<10	31
E444714		<20	0.01	<10	<10	84	<10	27
E444715		20	0.01	<10	<10	73	<10	34
E444716		<20	<0.01	<10	<10	36	<10	86
E444717		<20	0.01	<10	<10	44	20	32
E444718		<20	0.01	<10	<10	59	<10	39
E444719		<20	0.02	<10	<10	77	<10	20
E444720		<20	0.05	<10	<10	32	<10	445
I027148		<20	0.01	<10	<10	33	<10	25
I027149		<20	0.04	<10	<10	28	<10	18
I027150		<20	<0.01	<10	<10	<1	<10	2
I027151		<20	<0.01	<10	<10	14	<10	18
I027152		<20	<0.01	<10	<10	26	<10	18
I027153		<20	0.03	<10	<10	34	<10	20
I027154		<20	0.04	<10	<10	28	<10	20
I027155		<20	0.03	<10	<10	19	<10	18
I027156		<20	<0.01	<10	<10	11	<10	16
I027157		20	<0.01	<10	<10	21	<10	23
I027158		<20	<0.01	<10	<10	24	<10	24
I027159		<20	0.02	<10	<10	24	<10	22
I027160		<20	0.12	<10	<10	52	30	58
I027161		20	0.05	<10	<10	50	<10	25
I027162		20	0.04	<10	<10	52	<10	27
I027163		20	<0.01	<10	10	30	<10	30
I027164		20	0.04	<10	10	42	<10	25
I027165		<20	<0.01	<10	10	29	10	34
I027166		20	0.03	<10	10	41	10	23
I027167		20	0.03	<10	<10	45	<10	25
I027168		20	<0.01	<10	10	21	<10	29
I027169		20	<0.01	<10	<10	30	<10	32
I027170		<20	<0.01	<10	<10	<1	<10	4
I027171		<20	<0.01	<10	<10	69	<10	40
I027172		<20	<0.01	<10	<10	88	<10	60
I027173		<20	<0.01	<10	<10	69	<10	40
I027174		<20	<0.01	10	<10	52	<10	17
I027175		<20	<0.01	<10	<10	12	<10	22
I027176		<20	<0.01	<10	<10	4	<10	11
I027177		<20	<0.01	<10	<10	6	<10	16
I027178		<20	<0.01	<10	<10	6	<10	15

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I027179		6.13	0.045	<0.2	0.75	641	<10	350	0.6	5	0.04	<0.5	8	48	228	6.53
I027180		0.06	0.309	2.6	1.78	30	10	70	<0.5	<2	0.87	2.1	11	30	2550	4.62
I027181		5.71	0.027	<0.2	0.75	81	<10	610	0.5	5	0.04	<0.5	5	38	169	3.79
I027182		5.88	0.067	<0.2	0.46	1090	<10	700	0.6	5	0.02	<0.5	12	20	179	4.88
I027183		4.31	0.024	<0.2	0.36	114	<10	540	<0.5	2	0.02	<0.5	4	7	100	2.79
I027184		7.96	0.124	0.3	0.41	1700	<10	910	<0.5	9	0.02	<0.5	8	19	187	3.39
I027185		7.30	0.033	0.2	0.71	246	<10	390	<0.5	5	0.04	<0.5	2	28	273	3.25
I027186		7.33	0.044	0.2	0.77	80	<10	810	0.5	3	0.04	<0.5	10	40	193	3.63
I027187		5.84	0.310	0.3	0.91	98	<10	1760	<0.5	10	0.06	<0.5	3	41	179	2.46
I027188		7.39	0.095	<0.2	0.77	223	<10	500	0.5	4	0.03	<0.5	3	24	207	2.93
I027189		3.25	0.027	<0.2	0.64	232	<10	370	<0.5	2	0.02	<0.5	3	3	202	2.35
I027190		0.26	<0.005	<0.2	0.05	9	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4	0.16
I027191		3.71	0.064	<0.2	0.76	170	<10	270	<0.5	<2	0.05	<0.5	7	23	148	3.15
I027192		3.69	0.272	<0.2	0.39	168	<10	340	<0.5	4	0.23	<0.5	6	3	42	2.57
I027193		4.97	0.075	<0.2	0.82	151	<10	140	0.5	5	0.03	<0.5	5	24	182	4.79
I027194		4.95	0.529	<0.2	0.76	465	<10	70	0.6	3	0.02	<0.5	11	18	191	4.57
I027195		5.05	0.220	0.2	0.62	372	<10	190	<0.5	19	0.01	<0.5	7	26	207	7.91
I027196		5.14	0.045	<0.2	0.74	605	<10	250	0.5	3	0.01	<0.5	8	21	146	4.35
I027197		4.03	0.039	<0.2	0.92	413	<10	100	0.7	3	0.01	<0.5	32	21	208	6.14
I027198		3.82	0.103	<0.2	1.03	372	<10	210	0.6	10	0.01	<0.5	13	68	222	5.81
I027199		5.99	3.78	0.3	0.38	1190	<10	490	<0.5	15	0.02	<0.5	4	4	51	4.14
I027200		0.06	0.320	2.7	1.70	28	10	60	<0.5	<2	0.84	2.3	10	29	2520	4.50
I027201		5.76	0.142	<0.2	0.38	465	<10	350	<0.5	10	0.02	<0.5	3	4	56	3.26
I027202		5.74	0.325	<0.2	0.73	46	<10	250	<0.5	26	0.01	<0.5	3	60	198	5.57
I027203		5.16	0.403	0.2	0.80	55	<10	500	0.5	17	0.01	<0.5	3	67	242	4.16
I027204		4.26	0.065	0.2	0.44	61	<10	250	0.5	12	0.03	<0.5	10	4	242	4.83
I027205		5.31	1.525	0.2	0.57	113	<10	460	0.6	34	0.07	<0.5	10	35	200	4.83
I027206		5.81	0.128	0.9	0.87	979	<10	300	0.6	93	0.01	<0.5	10	78	370	6.73
I027207		5.46	0.048	<0.2	0.62	83	<10	500	<0.5	3	0.01	<0.5	<1	26	119	2.54
I027208		5.38	0.028	<0.2	0.52	148	<10	120	<0.5	5	0.01	<0.5	1	18	98	2.58
I027209		4.82	0.023	<0.2	0.43	371	<10	380	<0.5	6	0.01	<0.5	<1	12	66	2.13
I027210		0.34	<0.005	<0.2	0.04	4	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.11
I027211		5.81	0.019	0.3	0.55	385	<10	480	<0.5	10	0.02	<0.5	<1	9	114	1.64
I027212		5.39	0.024	0.3	0.45	855	<10	160	<0.5	18	0.11	<0.5	3	8	114	2.38
I027213		4.84	0.064	0.7	0.77	1690	<10	50	<0.5	31	0.02	<0.5	4	8	633	1.64
I027214		5.32	0.186	0.4	0.62	6770	<10	50	<0.5	89	0.03	<0.5	17	5	789	2.26
I027215		5.80	0.033	0.6	0.43	1360	<10	170	<0.5	36	0.01	<0.5	10	4	795	2.49
I027216		5.11	0.218	0.8	0.31	8130	<10	90	<0.5	57	0.01	<0.5	20	4	1200	2.52
I027217		6.66	0.025	0.2	0.41	429	<10	130	<0.5	11	0.01	<0.5	3	4	333	2.50
I027218		6.38	0.031	0.3	0.61	137	<10	80	0.6	6	0.01	<0.5	4	3	511	2.99

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027179		<10	<1	0.40	10	0.07	170	4	0.01	20	840	2	0.64	10	8	20
I027180		10	<1	0.31	<10	0.59	771	241	0.05	22	760	75	2.23	<2	2	58
I027181		<10	<1	0.28	10	0.21	120	3	<0.01	15	530	2	0.32	<2	6	13
I027182		<10	<1	0.33	20	0.04	207	3	0.01	28	750	3	0.43	9	5	28
I027183		<10	<1	0.26	10	0.02	90	1	0.01	6	240	8	0.31	11	2	14
I027184		<10	<1	0.24	10	0.03	102	4	<0.01	15	560	6	0.29	27	5	13
I027185		<10	<1	0.15	10	0.12	53	2	<0.01	7	580	5	0.17	16	6	12
I027186		<10	1	0.19	20	0.15	125	3	<0.01	22	980	4	0.23	3	7	21
I027187		<10	<1	0.22	20	0.29	95	7	<0.01	8	980	2	0.19	2	5	40
I027188		<10	<1	0.18	20	0.07	55	4	<0.01	8	990	4	0.15	9	6	17
I027189		<10	<1	0.17	30	0.02	85	1	<0.01	11	310	5	0.11	7	1	11
I027190		<10	<1	0.01	<10	0.46	92	<1	<0.01	<1	70	<2	0.01	<2	<1	91
I027191		<10	<1	0.21	40	0.15	121	1	<0.01	15	430	5	0.25	6	5	17
I027192		<10	<1	0.29	10	0.02	186	1	0.01	5	140	4	0.34	4	1	10
I027193		<10	<1	0.28	30	0.10	148	3	0.01	11	340	5	0.26	8	5	15
I027194		<10	<1	0.20	30	0.04	103	1	<0.01	18	420	6	0.17	6	6	11
I027195		<10	<1	0.33	20	0.04	107	1	0.01	11	420	4	0.63	8	4	11
I027196		<10	<1	0.25	30	0.09	117	3	0.01	18	480	6	0.31	4	5	12
I027197		<10	<1	0.25	30	0.12	386	1	<0.01	38	450	4	0.17	<2	5	10
I027198		<10	<1	0.37	30	0.19	236	1	0.01	33	550	7	0.36	12	6	11
I027199		<10	<1	0.58	20	0.03	108	2	0.01	4	350	5	0.76	50	1	24
I027200		<10	<1	0.29	<10	0.57	746	226	0.05	23	730	76	2.18	<2	2	56
I027201		<10	<1	0.44	20	0.02	90	3	0.01	5	370	4	0.58	33	1	30
I027202		<10	<1	0.44	20	0.14	85	19	0.01	12	670	4	0.75	5	6	24
I027203		<10	<1	0.30	20	0.13	77	11	0.01	19	640	4	0.50	4	7	16
I027204		<10	<1	0.42	20	0.01	190	2	0.01	18	650	2	0.73	16	2	22
I027205		<10	<1	0.27	20	0.05	148	23	0.01	32	1540	11	0.39	10	5	16
I027206		<10	<1	0.30	20	0.19	136	7	0.02	39	550	4	0.55	8	7	10
I027207		<10	<1	0.29	30	0.09	41	2	0.01	6	550	4	0.41	7	4	11
I027208		<10	<1	0.29	50	0.01	32	2	<0.01	5	920	3	0.43	16	6	18
I027209		<10	<1	0.31	30	0.01	37	2	0.01	2	320	5	0.39	39	2	12
I027210		<10	<1	0.01	<10	0.48	81	<1	<0.01	<1	70	<2	<0.01	<2	<1	79
I027211		<10	<1	0.30	30	0.03	32	1	<0.01	5	240	3	0.29	16	1	10
I027212		<10	<1	0.32	30	0.03	60	1	<0.01	7	310	3	0.42	27	1	11
I027213		<10	<1	0.28	20	0.04	26	1	<0.01	14	390	5	0.85	15	1	6
I027214		<10	<1	0.26	10	0.02	26	2	<0.01	12	430	4	1.52	12	1	9
I027215		<10	<1	0.27	10	0.02	83	2	<0.01	8	350	5	1.06	10	1	7
I027216		<10	1	0.26	10	0.02	30	2	<0.01	3	270	4	1.68	16	1	5
I027217		<10	<1	0.36	10	0.03	48	2	0.01	3	450	3	0.77	12	1	10
I027218		<10	<1	0.25	10	0.02	44	2	<0.01	16	570	2	0.83	8	1	8

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027179		<20	<0.01	<10	<10	56	<10	35
I027180		<20	0.05	<10	<10	33	<10	449
I027181		<20	0.01	<10	<10	63	<10	31
I027182		<20	<0.01	<10	<10	40	<10	55
I027183		<20	<0.01	<10	<10	9	<10	37
I027184		<20	<0.01	<10	<10	25	<10	37
I027185		<20	<0.01	<10	<10	48	<10	17
I027186		<20	<0.01	<10	<10	57	<10	27
I027187		<20	0.01	<10	<10	110	<10	16
I027188		<20	<0.01	<10	<10	38	<10	23
I027189		<20	<0.01	<10	<10	4	<10	18
I027190		<20	<0.01	<10	<10	1	<10	2
I027191		20	<0.01	<10	<10	27	<10	23
I027192		<20	<0.01	<10	<10	3	<10	15
I027193		<20	0.01	<10	<10	34	<10	23
I027194		20	<0.01	<10	<10	25	<10	27
I027195		<20	<0.01	<10	<10	65	<10	32
I027196		<20	<0.01	<10	<10	26	<10	28
I027197		20	0.01	<10	<10	23	<10	62
I027198		20	0.01	<10	<10	32	<10	38
I027199		<20	<0.01	<10	<10	4	<10	20
I027200		<20	0.04	<10	<10	32	<10	436
I027201		<20	<0.01	<10	<10	4	<10	15
I027202		<20	0.01	<10	<10	57	<10	21
I027203		<20	<0.01	<10	<10	52	<10	26
I027204		<20	<0.01	<10	<10	10	<10	29
I027205		<20	<0.01	<10	<10	58	<10	48
I027206		<20	<0.01	<10	<10	73	<10	36
I027207		20	<0.01	<10	<10	25	<10	9
I027208		20	<0.01	<10	<10	24	<10	12
I027209		<20	<0.01	<10	<10	11	<10	13
I027210		<20	<0.01	<10	<10	<1	<10	<2
I027211		<20	<0.01	<10	<10	7	<10	3
I027212		<20	<0.01	<10	<10	5	<10	54
I027213		20	<0.01	<10	<10	6	<10	3
I027214		<20	<0.01	<10	<10	3	<10	4
I027215		<20	<0.01	<10	<10	3	<10	7
I027216		<20	<0.01	<10	<10	2	<10	5
I027217		<20	<0.01	<10	<10	4	<10	5
I027218		<20	<0.01	<10	<10	5	<10	11

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I027219		6.13	0.075	0.2	0.75	148	<10	60	0.7	11	0.02	<0.5	6	3	802	3.03
I027220		0.06	0.787	3.1	1.20	14	10	120	<0.5	<2	0.80	<0.5	10	48	8010	2.58
I027221		5.65	0.359	0.2	0.69	186	<10	110	<0.5	17	0.01	<0.5	3	4	256	2.59
I027222		5.89	0.207	0.2	0.55	266	<10	200	<0.5	8	0.01	<0.5	2	4	149	3.19
I027223		4.77	0.894	1.6	0.33	5500	<10	260	<0.5	117	0.01	<0.5	9	6	490	4.55
I027224		5.44	0.403	0.8	0.29	3180	<10	190	<0.5	73	0.01	<0.5	11	6	316	2.30
I027225		2.84	0.358	0.5	0.28	3840	<10	240	<0.5	16	0.01	<0.5	1	7	553	2.25
I027226		4.33	0.373	0.5	0.40	4360	<10	110	0.7	29	0.01	<0.5	8	8	417	8.99
I027227		0.30	<0.005	<0.2	0.02	11	<10	30	<0.5	<2	>25.0	<0.5	<1	<1	2	0.10
I027228		3.70	0.132	0.7	0.33	1170	<10	170	<0.5	49	0.13	<0.5	2	7	135	3.88
I027229		3.40	0.369	0.7	0.45	898	<10	210	0.5	22	0.02	<0.5	4	4	220	4.91
I027230		3.29	0.170	0.3	0.51	2850	<10	270	0.6	21	0.01	<0.5	11	3	356	6.56
I027231		0.37	<0.005	<0.2	0.03	7	<10	100	<0.5	<2	>25.0	<0.5	<1	<1	9	0.11
I027232		3.02	0.428	1.2	1.20	4750	<10	50	1.3	162	0.08	<0.5	33	6	4440	10.75
I027233		2.98	0.421	0.9	1.21	252	<10	40	0.9	57	0.02	<0.5	17	4	2960	5.59
I027234		5.34	0.074	<0.2	1.12	263	<10	160	0.7	12	0.01	<0.5	12	9	1505	3.73
I027235		5.25	0.473	0.4	0.82	1070	<10	140	0.5	13	0.10	<0.5	14	14	1645	2.79
I027236		5.84	0.234	<0.2	0.74	86	<10	190	0.6	8	0.17	0.5	18	21	746	3.74
I027237		4.81	0.319	2.1	1.11	630	<10	40	0.7	151	0.22	4.8	21	19	3080	3.81
I027238		7.09	0.035	0.3	0.49	93	<10	40	0.5	7	0.21	0.9	22	9	452	4.24
I027239		5.60	0.037	0.4	0.86	34	<10	70	0.5	90	0.24	0.5	23	25	462	4.71
I027240		0.06	4.25	0.8	0.25	365	10	160	<0.5	<2	9.7	0.6	5	21	33	1.76
I027241		5.53	0.200	0.5	1.11	173	<10	50	0.7	12	0.19	<0.5	18	25	943	3.19
I027242		5.30	0.027	0.2	0.84	140	<10	30	0.8	8	0.20	<0.5	13	19	718	2.85
I027243		4.26	0.023	0.4	1.17	274	<10	30	0.7	13	0.24	2.0	17	27	674	4.46
I027244		5.92	0.038	0.5	0.76	68	<10	10	0.8	12	0.19	<0.5	13	9	976	4.49
I027245		4.82	0.155	1.4	0.84	75	<10	10	1.0	33	0.17	1.0	18	7	2380	4.44
I027246		3.92	0.035	0.8	0.42	48	<10	10	<0.5	37	0.12	0.5	15	5	904	3.37
I027247		3.84	0.060	1.2	0.47	236	<10	60	0.5	16	0.19	1.1	26	4	1215	5.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027219		<10	<1	0.23	10	0.02	48	2	<0.01	20	550	2	1.40	8	1	8
I027220		10	<1	0.10	<10	0.57	403	383	0.08	32	530	4	0.63	2	4	39
I027221		<10	1	0.24	20	0.01	47	3	<0.01	13	570	3	0.90	14	2	12
I027222		<10	<1	0.38	20	0.01	72	2	0.01	7	660	3	0.58	18	2	26
I027223		<10	<1	0.46	<10	0.03	135	2	0.01	6	620	5	0.71	23	3	16
I027224		<10	<1	0.34	<10	0.02	79	1	<0.01	3	520	10	0.43	21	1	16
I027225		<10	<1	0.35	<10	0.01	55	1	0.01	2	410	3	0.46	46	2	22
I027226		<10	<1	0.71	10	0.02	423	7	0.02	9	1580	8	1.29	101	8	56
I027227		<10	<1	0.01	<10	0.49	81	<1	<0.01	<1	70	<2	<0.01	<2	<1	90
I027228		<10	1	0.50	20	0.03	111	3	0.01	2	420	3	0.69	177	3	27
I027229		<10	<1	0.46	10	0.02	96	4	0.01	5	320	8	1.09	88	5	17
I027230		<10	1	0.46	20	0.02	227	1	0.01	11	340	11	0.97	35	7	16
I027231		<10	<1	0.01	<10	0.60	96	<1	<0.01	<1	80	<2	0.04	3	<1	86
I027232		<10	<1	0.22	10	0.19	490	3	<0.01	30	360	8	3.57	220	8	10
I027233		<10	<1	0.16	20	0.03	75	3	<0.01	21	410	6	1.97	110	7	5
I027234		<10	<1	0.17	10	0.03	47	12	<0.01	20	450	6	1.30	70	16	9
I027235		<10	<1	0.21	20	0.03	71	2	<0.01	29	770	4	1.29	32	6	9
I027236		<10	<1	0.33	20	0.24	194	2	<0.01	33	720	17	1.35	19	5	6
I027237		<10	<1	0.24	20	0.18	236	2	<0.01	49	980	132	2.15	55	6	8
I027238		<10	<1	0.16	20	0.15	354	1	0.01	23	650	7	1.52	19	6	7
I027239		<10	<1	0.39	20	0.48	355	2	0.02	27	600	12	1.43	6	8	7
I027240		<10	4	0.10	<10	4.75	327	9	<0.01	31	490	9	1.38	63	3	47
I027241		<10	<1	0.31	30	0.47	272	2	<0.01	30	660	20	0.97	4	9	6
I027242		<10	<1	0.12	30	0.27	288	2	<0.01	31	720	25	0.62	6	10	7
I027243		10	<1	0.34	20	0.74	362	2	<0.01	21	680	18	1.22	4	13	6
I027244		<10	<1	0.07	10	0.43	359	1	<0.01	12	510	9	1.32	6	14	4
I027245		<10	<1	0.08	10	0.18	300	1	<0.01	19	500	12	1.95	44	14	4
I027246		<10	<1	0.09	10	0.20	254	1	<0.01	8	270	8	1.32	33	5	3
I027247		<10	<1	0.12	10	0.42	279	2	<0.01	14	560	7	2.18	92	8	7

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SUITE 1100
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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027219		<20	<0.01	<10	<10	5	<10	9
I027220		<20	0.11	<10	<10	51	30	56
I027221		<20	<0.01	<10	<10	8	<10	19
I027222		<20	<0.01	<10	<10	10	<10	22
I027223		<20	<0.01	<10	<10	7	<10	23
I027224		<20	<0.01	<10	<10	5	<10	10
I027225		<20	<0.01	<10	<10	6	<10	12
I027226		<20	<0.01	10	<10	13	<10	81
I027227		<20	<0.01	<10	<10	<1	<10	2
I027228		<20	<0.01	<10	<10	12	<10	15
I027229		<20	<0.01	<10	<10	16	<10	25
I027230		<20	<0.01	<10	<10	22	<10	41
I027231		<20	<0.01	<10	<10	<1	<10	2
I027232		<20	<0.01	<10	<10	31	<10	67
I027233		<20	<0.01	<10	<10	22	<10	38
I027234		<20	<0.01	<10	<10	68	<10	21
I027235		<20	<0.01	<10	<10	32	<10	14
I027236		<20	0.01	<10	<10	38	<10	33
I027237		<20	0.01	<10	<10	41	<10	423
I027238		<20	<0.01	<10	<10	31	<10	27
I027239		<20	0.03	<10	<10	63	<10	31
I027240		<20	<0.01	<10	<10	38	40	64
I027241		<20	0.02	<10	<10	62	<10	49
I027242		<20	<0.01	<10	<10	47	<10	30
I027243		<20	0.02	<10	<10	87	<10	40
I027244		<20	<0.01	<10	<10	55	<10	38
I027245		<20	<0.01	<10	<10	45	<10	42
I027246		<20	<0.01	<10	<10	22	<10	27
I027247		<20	<0.01	<10	<10	28	<10	31

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168300

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-35	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA23	ME-ICP41

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 12- SEP- 2017
This copy reported on
26- OCT- 2017
Account: NOFREG

CERTIFICATE WH17168316

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 227 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 12- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
I027248		5.62	0.034		0.7	0.41	704	<10	130	<0.5	10	0.15	1.0	19	3	924
I027249		4.73	0.098		1.3	0.36	553	<10	140	<0.5	20	0.15	0.8	15	3	1310
I027250		0.27	0.022		<0.2	0.03	9	<10	20	<0.5	<2	>25.0	<0.5	1	1	30
I027251		5.40	0.132		1.4	0.45	1130	<10	50	0.5	19	0.16	<0.5	11	3	1300
I027252		5.19	0.070		0.6	0.59	915	<10	60	0.6	16	0.09	<0.5	12	6	1076
I027253		4.92	0.025		0.7	0.50	376	<10	70	0.5	28	0.21	<0.5	15	4	1470
I027254		5.61	0.056		0.4	0.57	69	<10	30	0.8	25	0.26	<0.5	21	10	837
I027255		5.09	0.009		<0.2	1.21	92	<10	30	1.0	10	0.18	1.2	14	11	1045
I027256		7.09	0.141		1.5	1.22	68	<10	170	1.1	45	0.43	1.2	23	6	1355
I027257		5.94	0.094		0.4	1.42	22	<10	40	1.0	9	0.34	<0.5	35	12	675
I027258		6.44	0.143		0.2	2.03	15	<10	50	0.8	7	0.29	<0.5	29	11	601
I027259		4.92	0.196		0.3	0.82	15	<10	20	0.6	2	0.27	<0.5	21	13	468
I027260		0.06	0.347		2.9	1.78	31	10	70	<0.5	<2	0.88	2.3	11	31	2650
I027261		4.96	0.825		0.6	0.67	93	<10	20	0.5	16	0.24	2.2	30	14	922
I027262		5.23	0.281		0.3	0.74	322	<10	90	1.0	9	0.23	<0.5	16	13	1585
I027263		5.47	0.250		0.4	0.72	277	<10	80	0.9	6	0.31	1.9	14	14	636
I027264		4.99	0.186		0.4	0.65	126	<10	30	0.9	8	0.13	<0.5	12	6	1760
I027265		4.95	0.234		0.6	1.18	204	<10	10	1.0	13	0.28	<0.5	33	35	3010
I027266		4.32	0.298		0.5	0.81	147	<10	10	0.9	12	0.35	3.6	41	23	1305
I027267		3.62	0.367		0.7	1.97	227	<10	20	1.1	8	0.21	<0.5	67	34	5340
I027268		3.69	0.258		0.4	2.18	186	<10	10	1.1	7	0.19	<0.5	37	72	4330
I027269		0.31	<0.005		<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	21
I027270		4.54	0.098		0.2	0.95	58	<10	30	0.7	2	0.26	<0.5	18	9	611
I027271		6.71	0.182		0.2	1.93	167	<10	130	0.7	2	0.53	<0.5	20	36	301
I027272		5.85	0.122		0.5	1.96	34	<10	40	0.7	4	0.41	0.5	26	46	679
I027273		5.91	0.194		0.5	1.40	23	<10	20	0.6	5	0.32	<0.5	18	22	657
I027274		5.53	0.105		2.8	1.31	142	<10	10	0.8	261	0.21	4.0	29	19	2030
I027275		3.04	0.098		0.3	0.78	32	<10	30	0.7	6	0.15	1.2	17	6	774
I027276		3.97	0.307		0.7	0.33	123	<10	20	<0.5	6	0.09	1.5	11	10	735
I027277		4.34	>10.0	18.50	1.3	0.58	29	<10	30	0.5	58	0.10	1.7	13	13	1635
I027278		4.66	0.395		0.9	0.35	28	<10	20	<0.5	11	0.09	1.5	7	10	823
I027279		3.85	0.156		0.7	0.31	68	<10	40	<0.5	9	0.05	1.2	4	4	602
I027280		0.06	0.686		3.0	1.18	14	10	120	<0.5	<2	0.78	<0.5	10	49	7950
I027281		5.40	0.294		1.1	0.28	40	<10	50	<0.5	10	0.09	1.9	13	9	965
I027282		5.64	0.386		0.6	0.95	129	<10	60	0.6	10	0.38	1.6	16	35	637
I027283		5.66	0.155		0.5	0.80	238	<10	40	0.6	17	0.19	1.4	16	28	667
I027284		5.99	0.353		1.1	0.80	73	<10	20	0.6	87	0.25	1.2	24	36	807
I027285		5.37	0.430		2.0	0.68	66	<10	20	0.6	40	0.11	1.3	11	13	2500
I027286		5.20	0.240		0.7	0.43	15	<10	20	0.5	21	0.10	1.1	8	12	936
I027287		5.86	0.122		0.8	0.31	23	<10	10	0.5	34	0.11	1.0	12	12	878

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027248		3.22	<10	<1	0.17	10	0.17	233	3	<0.01	11	540	14	1.65	116	1
I027249		3.06	<10	<1	0.16	10	0.11	236	3	<0.01	10	550	7	1.54	109	1
I027250		0.25	<10	<1	0.01	<10	0.46	111	<1	<0.01	<1	80	<2	0.08	3	<1
I027251		3.34	<10	<1	0.15	10	0.05	161	3	<0.01	16	490	6	2.54	254	2
I027252		2.65	<10	<1	0.14	10	0.04	120	8	<0.01	25	390	10	1.83	148	4
I027253		2.40	<10	<1	0.14	10	0.08	139	9	<0.01	23	510	10	1.41	192	2
I027254		5.56	<10	1	0.13	20	0.22	561	3	<0.01	18	660	5	1.56	33	13
I027255		2.33	<10	<1	0.10	20	0.15	201	3	<0.01	37	650	5	0.73	22	13
I027256		9.10	10	<1	0.38	10	0.89	883	<1	<0.01	12	430	23	1.81	7	13
I027257		8.17	10	<1	0.53	20	0.95	394	<1	0.01	17	540	4	3.27	7	13
I027258		7.31	10	<1	0.91	10	1.43	265	<1	0.01	17	510	<2	3.09	5	16
I027259		5.61	<10	<1	0.18	10	0.56	298	1	<0.01	13	570	5	2.16	2	12
I027260		4.73	<10	<1	0.31	<10	0.60	785	241	0.05	22	780	77	2.29	2	2
I027261		6.99	<10	<1	0.16	10	0.40	270	2	<0.01	16	690	7	3.36	31	14
I027262		7.08	<10	<1	0.13	10	0.26	554	7	<0.01	25	610	11	2.72	182	13
I027263		8.52	<10	<1	0.12	10	0.40	783	3	<0.01	16	490	16	1.64	115	18
I027264		5.08	<10	<1	0.07	40	0.16	407	2	<0.01	16	380	7	1.71	87	10
I027265		7.47	<10	<1	0.09	20	0.25	510	4	<0.01	41	810	9	3.50	254	20
I027266		7.58	<10	1	0.09	20	0.30	555	1	<0.01	41	880	6	2.95	65	18
I027267		5.26	<10	<1	0.10	20	0.12	324	1	<0.01	102	790	5	2.87	99	16
I027268		3.55	<10	<1	0.10	10	0.12	204	2	<0.01	110	770	6	1.81	93	16
I027269		0.12	<10	<1	<0.01	<10	0.48	96	<1	<0.01	<1	70	2	0.01	2	<1
I027270		4.09	<10	<1	0.18	30	0.41	266	1	<0.01	19	670	6	1.42	9	10
I027271		8.38	10	1	0.97	10	1.64	714	1	0.07	21	700	2	1.55	5	18
I027272		7.43	10	<1	0.76	10	1.48	510	1	0.02	26	550	19	2.48	7	16
I027273		5.09	10	<1	0.36	30	0.92	254	1	<0.01	19	910	13	1.96	4	9
I027274		6.76	10	<1	0.34	40	0.88	454	1	<0.01	24	430	263	2.96	23	10
I027275		4.68	<10	<1	0.15	60	0.33	353	1	<0.01	16	330	19	1.83	8	5
I027276		3.35	<10	<1	0.13	20	0.18	318	1	<0.01	15	160	28	1.10	10	2
I027277		3.06	<10	<1	0.22	20	0.24	260	<1	<0.01	24	270	25	1.24	6	3
I027278		2.05	<10	<1	0.14	10	0.14	206	<1	0.02	18	190	26	0.69	5	2
I027279		1.29	<10	<1	0.14	<10	0.04	125	1	0.03	3	30	16	0.51	3	<1
I027280		2.56	<10	<1	0.10	<10	0.56	401	384	0.07	33	520	7	0.63	3	4
I027281		3.10	<10	<1	0.13	10	0.16	262	1	0.03	18	160	38	1.16	3	2
I027282		3.85	10	<1	0.50	50	0.63	248	1	0.05	43	1300	29	1.12	4	5
I027283		3.63	<10	<1	0.41	30	0.40	287	3	0.01	42	620	22	1.34	24	5
I027284		4.75	<10	<1	0.32	40	0.42	295	2	<0.01	49	810	46	1.83	14	5
I027285		2.09	<10	<1	0.15	20	0.10	97	2	<0.01	33	410	23	1.31	10	4
I027286		2.27	<10	<1	0.12	20	0.11	178	1	<0.01	18	290	9	0.89	4	3
I027287		3.29	<10	<1	0.11	20	0.12	260	2	<0.01	18	250	14	1.25	6	2

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
I027248		7	<20	<0.01	<10	<10	4	<10	61
I027249		7	<20	<0.01	<10	<10	4	<10	34
I027250		88	<20	<0.01	<10	<10	<1	<10	2
I027251		8	<20	<0.01	10	<10	5	<10	36
I027252		14	<20	<0.01	<10	<10	16	<10	31
I027253		19	<20	<0.01	<10	<10	8	<10	35
I027254		7	<20	<0.01	<10	<10	52	<10	23
I027255		15	<20	<0.01	<10	<10	54	<10	25
I027256		7	<20	0.02	<10	<10	83	<10	126
I027257		6	<20	0.04	<10	<10	110	<10	30
I027258		6	<20	0.08	<10	<10	114	<10	26
I027259		5	<20	0.01	<10	<10	73	<10	32
I027260		58	<20	0.04	<10	<10	33	<10	453
I027261		6	<20	<0.01	<10	<10	59	<10	28
I027262		7	<20	<0.01	<10	<10	54	<10	40
I027263		8	<20	<0.01	<10	<10	72	<10	65
I027264		8	<20	<0.01	<10	<10	32	<10	29
I027265		7	<20	<0.01	<10	<10	77	<10	53
I027266		7	<20	<0.01	<10	<10	75	<10	33
I027267		4	<20	<0.01	<10	10	65	<10	34
I027268		5	<20	<0.01	<10	10	59	<10	42
I027269		89	<20	<0.01	<10	<10	1	<10	3
I027270		6	<20	0.01	<10	<10	15	<10	27
I027271		19	<20	0.10	10	<10	79	<10	42
I027272		7	<20	0.09	<10	<10	102	<10	57
I027273		6	<20	0.02	<10	<10	64	<10	53
I027274		4	<20	0.02	<10	<10	64	<10	282
I027275		5	20	<0.01	<10	<10	24	<10	33
I027276		4	<20	<0.01	<10	<10	9	<10	61
I027277		6	<20	0.01	<10	<10	12	50	60
I027278		6	<20	<0.01	<10	<10	7	<10	76
I027279		7	<20	<0.01	<10	<10	1	<10	37
I027280		38	<20	0.11	<10	<10	50	30	57
I027281		9	<20	<0.01	<10	<10	7	<10	134
I027282		16	<20	0.05	<10	<10	35	<10	144
I027283		10	20	0.02	<10	<10	27	<10	73
I027284		9	<20	0.02	<10	<10	33	<10	52
I027285		5	<20	<0.01	<10	<10	16	<10	42
I027286		6	<20	<0.01	<10	<10	12	<10	18
I027287		5	<20	<0.01	<10	<10	10	<10	38

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I027288		5.68	0.430		1.0	0.59	84	<10	50	0.5	19	0.34	<0.5	21	16	604
I027289		5.45	0.052		0.7	1.54	174	<10	60	0.7	22	0.25	2.4	14	49	425
I027290		0.31	<0.005		<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4
I027291		4.42	0.130		0.6	0.71	775	<10	20	0.8	5	0.20	1.6	18	22	1265
I027292		3.98	0.084		1.8	0.45	1060	<10	40	0.7	79	0.15	4.0	23	11	1650
I027293		4.84	0.040		1.2	0.31	26	<10	30	<0.5	38	0.19	1.0	10	9	480
I027294		4.71	0.042		0.8	0.42	243	<10	20	0.7	25	0.09	5.2	15	5	333
I027295		4.57	0.016		<0.2	0.52	70	<10	40	0.7	3	0.14	0.5	10	18	386
I027296		5.59	0.245		12.0	0.53	38	<10	60	0.6	1810	0.16	6.7	14	14	480
I027297		6.10	0.010		0.5	0.69	12	<10	110	0.7	70	0.20	<0.5	15	21	140
I027298		5.94	0.009		0.2	0.82	10	<10	80	0.7	2	0.22	<0.5	11	26	138
I027299		5.65	0.027		0.4	1.18	18	<10	100	1.0	7	0.30	<0.5	14	37	231
I027300		0.06	0.815		3.0	1.21	13	10	120	<0.5	2	0.80	<0.5	10	48	8090
I027301		4.54	0.041		0.6	0.75	13	<10	60	0.6	5	0.20	<0.5	10	28	394
I027302		4.63	0.257		2.2	0.89	252	<10	50	0.8	229	0.23	15.8	9	34	392
I027303		3.81	0.117		0.4	0.41	49	<10	100	0.6	5	0.17	0.5	12	12	303
I027304		4.93	0.047		<0.2	0.32	40	<10	140	0.5	2	0.17	<0.5	9	4	219
I027305		2.60	0.063		0.6	0.43	77	<10	30	0.6	2	0.19	0.5	19	4	582
I027306		5.92	0.097		0.2	0.49	70	<10	40	0.7	2	0.20	0.6	15	11	182
I027307		4.87	0.199		0.3	0.69	498	<10	30	0.8	8	0.35	2.6	32	22	370
I027308		6.14	0.078		0.4	0.69	113	<10	70	0.6	10	0.15	0.7	11	2	383
I027309		4.53	0.293		0.3	0.47	73	<10	80	0.5	10	0.14	<0.5	9	3	255
I027310		0.45	0.005		0.2	0.04	2	<10	60	<0.5	3	>25.0	<0.5	1	1	6
I027311		5.18	0.051		0.7	1.37	72	<10	80	0.7	6	0.23	<0.5	24	27	638
I027312		5.87	0.054		0.8	1.32	76	<10	70	0.6	16	0.18	0.6	18	24	680
I027313		5.41	0.053		0.9	0.50	53	<10	60	<0.5	11	0.12	<0.5	13	11	585
I027314		4.93	0.486		4.3	1.03	1220	<10	60	0.7	39	0.30	4.7	21	21	2980
I027315		3.29	0.108		0.7	0.50	971	<10	40	0.6	13	0.16	<0.5	27	9	620
I027316		3.80	0.555		0.2	0.64	950	<10	20	0.6	40	0.25	<0.5	23	20	304
I027317		3.86	0.214		1.4	0.55	350	<10	20	0.6	28	0.24	8.3	13	18	731
I027318		3.58	0.044		1.8	0.47	542	<10	40	0.7	22	0.12	8.2	12	5	1205
I027319		4.56	0.043		1.1	0.37	221	<10	30	<0.5	3	0.15	2.0	16	3	1230
I027320		0.06	0.308		2.9	1.77	32	10	70	<0.5	<2	0.86	2.5	11	30	2570
I027321		4.57	0.085		1.7	0.42	220	<10	30	<0.5	3	0.16	7.8	18	3	1385
I027322		4.12	0.005		0.8	0.40	163	<10	40	<0.5	2	0.15	2.3	17	3	1010
I027323		4.40	0.012		0.5	0.50	55	<10	30	0.5	2	0.16	2.0	14	20	571
I027324		6.17	0.005		0.4	0.67	50	<10	60	<0.5	7	0.18	<0.5	12	9	411
I027325		5.32	0.093		0.8	0.45	90	<10	90	<0.5	10	0.16	<0.5	12	5	977
I027326		5.31	0.231		0.5	0.99	52	<10	20	0.6	6	0.39	<0.5	16	3	595
I027327		6.07	0.016		0.3	0.52	343	<10	60	<0.5	7	0.28	<0.5	12	6	277

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027288		4.19	<10	<1	0.27	30	0.44	253	1	0.02	42	1110	15	1.47	9	7
I027289		3.82	10	<1	0.56	30	0.81	245	1	0.02	32	630	29	0.93	5	7
I027290		0.08	<10	<1	<0.01	<10	0.35	74	<1	<0.01	<1	70	<2	<0.01	<2	<1
I027291		4.86	<10	1	0.27	60	0.32	399	2	<0.01	37	320	18	1.85	6	5
I027292		4.72	<10	<1	0.24	30	0.16	330	2	<0.01	34	330	91	2.33	26	3
I027293		2.49	<10	<1	0.12	20	0.10	207	1	0.01	21	120	32	1.00	8	1
I027294		3.04	<10	<1	0.18	10	0.05	490	1	<0.01	10	110	67	1.02	37	1
I027295		3.07	<10	<1	0.15	20	0.19	351	5	<0.01	21	310	15	0.98	13	4
I027296		3.39	<10	<1	0.25	40	0.23	274	1	0.01	22	240	760	1.34	70	3
I027297		3.16	<10	<1	0.31	60	0.38	296	1	0.02	22	230	30	0.62	3	3
I027298		2.94	<10	<1	0.23	40	0.45	298	1	0.01	21	220	10	0.65	3	3
I027299		3.75	10	1	0.37	40	0.62	339	1	0.05	28	300	8	0.86	4	5
I027300		2.59	<10	<1	0.10	10	0.57	406	382	0.07	33	530	5	0.63	3	4
I027301		3.15	<10	<1	0.22	30	0.39	194	2	0.02	24	240	11	1.04	5	3
I027302		4.37	10	<1	0.35	30	0.48	353	2	0.02	25	360	140	1.28	16	4
I027303		4.10	<10	<1	0.17	30	0.18	435	1	0.01	16	240	15	0.90	8	2
I027304		3.58	<10	<1	0.12	110	0.13	328	1	0.03	10	310	11	0.86	8	1
I027305		4.19	<10	<1	0.10	90	0.22	389	3	<0.01	18	490	20	1.25	14	3
I027306		4.23	<10	<1	0.17	20	0.32	405	3	<0.01	22	550	10	0.99	11	7
I027307		5.77	<10	<1	0.18	10	0.39	400	2	<0.01	51	1000	11	2.05	21	11
I027308		4.13	<10	<1	0.22	60	0.28	416	4	0.01	10	280	8	1.17	16	1
I027309		3.51	<10	<1	0.12	40	0.18	399	3	0.01	8	260	13	0.79	14	2
I027310		0.14	<10	<1	0.01	<10	0.40	88	<1	<0.01	1	80	<2	0.03	<2	<1
I027311		6.67	10	<1	0.80	10	1.03	358	1	0.02	38	550	6	2.20	9	18
I027312		5.10	10	<1	0.85	30	1.01	271	3	0.04	36	430	7	1.69	10	13
I027313		3.53	<10	<1	0.29	10	0.33	268	2	0.03	17	240	17	1.14	6	5
I027314		5.20	10	<1	0.60	20	0.68	407	10	0.02	43	590	19	1.71	12	10
I027315		4.17	<10	<1	0.13	50	0.13	362	11	<0.01	30	470	16	1.78	17	4
I027316		4.51	<10	<1	0.18	30	0.19	406	5	<0.01	38	810	10	1.88	16	7
I027317		4.23	<10	<1	0.19	20	0.29	408	4	<0.01	34	790	251	1.46	10	6
I027318		5.14	<10	<1	0.15	50	0.24	605	4	<0.01	17	280	399	1.42	24	3
I027319		4.42	<10	<1	0.26	10	0.20	183	2	<0.01	6	510	18	2.77	40	1
I027320		4.62	10	<1	0.31	<10	0.58	770	249	0.05	22	750	77	2.19	<2	2
I027321		4.70	<10	<1	0.30	10	0.20	260	2	<0.01	8	500	269	2.47	16	1
I027322		4.54	<10	<1	0.26	10	0.19	272	2	<0.01	7	490	57	2.25	29	1
I027323		4.13	<10	<1	0.18	30	0.41	313	2	<0.01	32	440	15	1.37	23	7
I027324		3.50	<10	<1	0.18	40	0.31	231	3	0.01	12	300	11	1.37	9	3
I027325		3.18	<10	<1	0.15	50	0.20	195	1	0.02	12	300	9	1.25	16	2
I027326		5.69	<10	<1	0.28	20	0.60	315	<1	0.01	7	1090	9	2.21	13	8
I027327		2.97	<10	<1	0.17	30	0.42	215	2	0.03	11	230	31	1.10	8	4

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
I027288		17	<20	0.02	<10	<10	60	<10	64
I027289		13	<20	0.05	<10	<10	59	<10	199
I027290		92	<20	<0.01	<10	<10	<1	<10	<2
I027291		7	20	0.01	<10	<10	26	<10	157
I027292		6	20	<0.01	<10	<10	13	<10	258
I027293		5	<20	<0.01	<10	<10	6	<10	67
I027294		4	<20	<0.01	<10	<10	2	<10	507
I027295		5	<20	0.01	<10	<10	19	<10	44
I027296		8	20	0.01	<10	<10	14	<10	405
I027297		10	20	0.02	<10	<10	19	<10	54
I027298		9	<20	0.02	<10	<10	24	<10	66
I027299		15	<20	0.04	<10	<10	36	<10	37
I027300		39	<20	0.11	<10	<10	51	30	56
I027301		10	<20	0.01	<10	<10	21	<10	35
I027302		9	<20	0.02	<10	<10	26	<10	1490
I027303		8	<20	<0.01	<10	<10	9	<10	67
I027304		13	30	<0.01	<10	<10	5	<10	18
I027305		8	20	<0.01	<10	<10	8	<10	146
I027306		10	<20	<0.01	<10	<10	22	<10	60
I027307		9	<20	0.01	<10	<10	40	<10	139
I027308		8	<20	<0.01	<10	<10	4	<10	38
I027309		8	<20	<0.01	<10	<10	5	<10	37
I027310		114	<20	<0.01	<10	<10	1	<10	2
I027311		9	<20	0.08	<10	<10	122	<10	43
I027312		9	<20	0.08	<10	<10	93	<10	79
I027313		10	<20	0.02	<10	<10	32	10	40
I027314		7	<20	0.05	<10	<10	64	<10	409
I027315		6	20	<0.01	<10	<10	15	<10	100
I027316		6	<20	<0.01	<10	<10	40	<10	101
I027317		11	<20	<0.01	<10	<10	32	<10	811
I027318		15	<20	<0.01	<10	<10	8	<10	548
I027319		13	<20	<0.01	<10	<10	3	<10	35
I027320		58	<20	0.05	<10	<10	33	<10	455
I027321		16	<20	<0.01	<10	<10	3	<10	574
I027322		22	<20	<0.01	<10	<10	4	<10	84
I027323		8	<20	0.01	<10	<10	34	<10	54
I027324		10	<20	0.01	<10	<10	12	<10	29
I027325		9	20	<0.01	<10	<10	5	<10	31
I027326		10	<20	0.02	<10	<10	48	<10	32
I027327		14	<20	0.01	<10	<10	12	<10	56

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I027328		5.79	0.028		0.4	0.85	20	<10	30	<0.5	3	0.32	0.7	11	7	360
I027329		5.60	0.113		0.3	2.12	14	<10	100	0.5	3	0.30	<0.5	13	27	333
I027330		0.32	<0.005		<0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	4
I027331		3.50	0.103		0.5	0.86	955	<10	110	<0.5	28	0.04	<0.5	1	11	121
I027332		6.65	0.261		0.3	0.71	402	<10	80	<0.5	16	0.01	<0.5	1	10	130
I027333		5.60	0.050		<0.2	0.58	211	<10	60	<0.5	6	0.01	<0.5	3	10	230
I027334		7.08	0.067		0.3	0.55	173	<10	80	<0.5	21	0.01	<0.5	3	10	237
I027335		8.35	0.030		0.2	0.52	298	<10	70	<0.5	14	0.01	<0.5	7	11	260
I027336		7.35	0.071		0.3	0.45	920	<10	60	<0.5	4	0.01	<0.5	9	11	244
I027337		8.30	0.178		0.6	0.45	161	<10	110	<0.5	18	0.01	<0.5	5	16	159
I027338		8.04	0.080		0.2	0.41	277	<10	320	<0.5	15	0.01	0.5	5	47	242
I027339		8.00	0.149		0.3	0.41	1350	<10	130	<0.5	20	0.01	0.5	5	24	199
I027340		0.06	0.361		2.7	1.70	30	10	60	<0.5	<2	0.83	2.3	12	30	2510
I027341		8.04	0.050		0.3	0.56	452	<10	150	<0.5	8	0.01	<0.5	6	19	364
I027342		3.61	0.041		0.3	0.51	158	<10	70	<0.5	167	0.01	<0.5	7	20	191
I027343		5.63	0.102		0.4	0.56	335	<10	50	<0.5	56	0.01	<0.5	8	19	209
I027344		5.46	0.929		0.4	0.97	63	<10	60	0.5	54	0.02	<0.5	3	23	169
I027345		5.12	0.089		<0.2	1.02	99	<10	40	0.6	8	0.02	<0.5	2	25	150
I027346		4.85	0.063		<0.2	1.32	50	<10	50	0.5	4	0.02	<0.5	1	34	181
I027347		5.67	0.144		0.5	1.33	191	<10	90	0.5	28	0.02	<0.5	2	26	181
I027348		5.75	0.022		0.2	1.34	64	<10	50	0.6	17	0.05	<0.5	3	35	258
I027349		4.90	0.009		<0.2	0.85	22	<10	50	0.7	9	0.06	<0.5	3	28	199
I027350		0.38	0.009		0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	1	1	4
I027351		5.78	0.114		<0.2	1.70	31	<10	40	0.6	7	0.12	<0.5	8	42	586
I027352		4.46	0.251		<0.2	1.03	50	<10	80	0.6	12	0.02	<0.5	4	22	286
I027353		3.39	0.149		0.3	0.68	11	<10	70	<0.5	7	0.02	<0.5	3	23	229
I027354		3.49	0.996		1.6	1.15	89	<10	40	0.6	72	0.01	<0.5	22	20	1725
I027355		4.30	0.168		0.3	0.61	148	<10	160	<0.5	10	0.01	<0.5	1	21	128
I027356		3.45	0.092		0.4	2.39	110	<10	10	0.6	13	1.57	<0.5	31	40	3380
I027357		4.71	0.092		0.3	2.15	32	<10	<10	0.7	6	3.24	<0.5	10	11	608
I027358		4.58	7.80		5.1	1.16	293	<10	80	<0.5	213	0.63	<0.5	8	10	1025
I027359		5.61	0.125		0.8	2.45	114	<10	10	1.5	15	1.69	<0.5	37	6	2450
I027360		0.06	4.37		1.0	0.30	378	10	190	<0.5	2	9.7	0.7	5	22	35
I027361		4.89	0.178		0.7	2.80	57	<10	10	1.3	38	1.59	<0.5	36	13	2620
I027362		6.04	0.048		0.7	1.32	148	<10	40	0.6	294	0.08	0.5	14	28	833
I027363		5.33	0.851		0.9	1.28	558	<10	30	<0.5	127	0.10	<0.5	18	20	1045
I027364		5.13	0.081		0.4	1.44	373	<10	40	<0.5	34	0.09	<0.5	18	35	493
I027365		6.09	0.104		0.4	1.19	107	<10	50	0.5	28	0.08	<0.5	16	23	743
I027366		4.66	0.055		1.0	1.43	200	<10	60	0.6	136	0.08	0.5	35	14	1090
I027367		4.15	0.465		1.4	0.39	114	<10	30	<0.5	46	0.03	0.7	10	4	671

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027328		3.53	10	<1	0.16	20	0.67	158	<1	0.04	3	340	25	1.47	<2	5
I027329		5.00	10	<1	1.32	20	2.04	179	3	0.05	11	520	5	1.38	<2	13
I027330		0.12	<10	<1	0.01	<10	0.44	86	<1	0.01	1	70	<2	0.02	<2	<1
I027331		1.25	<10	<1	0.27	40	0.04	24	2	<0.01	7	370	4	0.12	8	3
I027332		1.36	<10	<1	0.24	30	0.03	41	2	<0.01	26	280	3	0.10	5	2
I027333		1.95	<10	<1	0.22	20	0.03	53	<1	<0.01	26	290	3	0.11	9	2
I027334		2.01	<10	<1	0.30	40	0.04	68	1	<0.01	8	360	4	0.18	12	3
I027335		2.96	<10	<1	0.28	30	0.03	163	1	<0.01	12	280	6	0.16	17	2
I027336		3.59	<10	<1	0.19	20	0.02	340	1	<0.01	18	270	4	0.11	4	4
I027337		3.28	<10	<1	0.23	20	0.03	149	9	<0.01	14	360	3	0.24	39	3
I027338		5.93	<10	<1	0.36	20	0.03	193	38	0.01	29	690	3	0.58	38	4
I027339		4.02	<10	<1	0.24	30	0.02	199	4	0.01	17	510	6	0.34	34	7
I027340		4.51	10	<1	0.30	<10	0.56	750	236	0.05	22	730	74	2.13	2	2
I027341		7.99	<10	<1	0.37	20	0.02	201	1	0.02	12	840	5	0.64	27	5
I027342		5.60	<10	<1	0.28	30	0.03	314	1	0.01	15	650	6	0.37	28	5
I027343		5.29	<10	<1	0.25	20	0.04	321	2	0.01	15	370	8	0.27	77	4
I027344		2.92	<10	<1	0.42	30	0.23	65	<1	0.03	9	260	18	0.16	4	3
I027345		2.84	<10	<1	0.39	30	0.29	56	1	0.03	9	260	5	0.18	4	3
I027346		2.50	10	<1	0.48	30	0.41	62	1	0.03	8	340	3	0.25	<2	3
I027347		2.49	<10	<1	0.58	30	0.37	71	<1	0.04	8	280	3	0.29	<2	2
I027348		3.00	10	<1	0.49	30	0.43	68	<1	0.05	9	440	2	0.48	<2	4
I027349		3.44	10	<1	0.38	30	0.27	57	1	0.06	8	390	4	0.88	<2	3
I027350		0.15	<10	<1	0.01	<10	0.65	83	<1	<0.01	<1	70	<2	0.03	<2	<1
I027351		3.96	10	<1	0.48	30	0.59	91	3	0.04	19	360	2	1.36	<2	5
I027352		3.80	10	<1	0.51	20	0.34	65	1	0.02	7	560	4	1.17	<2	2
I027353		3.15	<10	<1	0.42	20	0.15	52	1	0.05	5	230	3	0.71	<2	2
I027354		5.50	<10	<1	0.32	10	0.19	40	1	0.05	16	460	17	3.62	2	3
I027355		5.33	10	<1	0.77	20	0.10	32	<1	0.12	4	400	4	1.48	<2	3
I027356		9.92	10	<1	0.13	20	0.19	658	3	0.03	24	370	<2	6.28	<2	7
I027357		7.43	10	<1	0.10	<10	0.13	1505	2	0.04	11	520	2	1.83	2	2
I027358		12.60	20	<1	0.50	10	0.11	296	<1	0.06	8	790	4	2.49	<2	4
I027359		24.9	20	<1	0.37	10	0.29	616	<1	0.11	24	1790	<2	8.76	<2	4
I027360		1.80	<10	5	0.11	<10	4.77	333	8	<0.01	33	500	9	1.38	66	3
I027361		16.90	10	<1	0.20	<10	0.37	500	1	0.11	18	620	<2	8.73	<2	4
I027362		5.09	<10	<1	0.37	20	0.54	110	2	0.03	15	360	17	2.14	5	6
I027363		4.38	10	<1	0.39	10	0.81	100	1	0.04	15	350	4	1.98	<2	7
I027364		4.22	10	<1	0.63	20	1.02	101	1	0.04	14	300	6	1.66	<2	8
I027365		4.55	10	<1	0.59	20	0.73	101	2	0.03	14	300	5	1.74	<2	6
I027366		7.08	10	<1	0.65	10	0.64	117	4	0.02	24	370	3	3.37	3	10
I027367		1.24	<10	<1	0.13	10	0.03	64	9	0.02	7	40	4	0.75	9	<1

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
I027328		10	<20	0.01	<10	<10	33	<10	67
I027329		13	<20	0.16	<10	<10	113	<10	21
I027330		91	<20	<0.01	<10	<10	1	<10	2
I027331		15	20	<0.01	<10	<10	25	<10	2
I027332		12	<20	<0.01	<10	<10	20	<10	3
I027333		9	<20	<0.01	<10	<10	19	<10	5
I027334		10	20	<0.01	<10	<10	14	<10	6
I027335		10	<20	<0.01	<10	<10	12	<10	10
I027336		6	<20	<0.01	<10	<10	14	<10	35
I027337		7	<20	<0.01	<10	<10	20	<10	66
I027338		14	<20	<0.01	<10	<10	56	<10	60
I027339		14	<20	<0.01	<10	<10	32	<10	51
I027340		55	<20	0.04	<10	<10	32	<10	443
I027341		19	<20	<0.01	<10	<10	30	<10	102
I027342		20	<20	<0.01	<10	<10	24	<10	67
I027343		11	<20	<0.01	<10	<10	20	<10	95
I027344		10	<20	0.02	<10	<10	19	<10	29
I027345		9	<20	0.02	<10	<10	21	<10	19
I027346		13	<20	0.03	<10	<10	28	<10	10
I027347		13	<20	0.03	<10	<10	20	<10	9
I027348		18	<20	0.04	<10	<10	30	<10	10
I027349		19	<20	0.01	<10	<10	27	<10	10
I027350		83	<20	<0.01	<10	<10	1	<10	<2
I027351		16	<20	0.07	<10	<10	40	<10	16
I027352		7	<20	0.01	<10	<10	19	<10	10
I027353		11	<20	0.01	<10	<10	23	<10	6
I027354		10	<20	<0.01	<10	<10	31	<10	6
I027355		32	<20	0.01	<10	<10	22	<10	5
I027356		11	<20	0.09	<10	<10	33	<10	18
I027357		9	<20	0.05	<10	<10	23	<10	20
I027358		10	<20	0.03	<10	<10	20	<10	15
I027359		7	<20	0.03	<10	<10	27	<10	40
I027360		46	<20	<0.01	<10	<10	40	40	68
I027361		8	<20	0.04	<10	<10	39	<10	35
I027362		7	<20	0.02	<10	<10	42	<10	23
I027363		7	<20	0.03	<10	<10	53	<10	22
I027364		6	<20	0.05	<10	<10	62	<10	16
I027365		5	<20	0.04	<10	<10	45	<10	17
I027366		7	<20	0.04	<10	<10	53	<10	67
I027367		4	20	<0.01	<10	10	1	<10	13

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I027368		5.21	0.077		1.2	0.48	357	<10	50	<0.5	42	0.02	<0.5	11	5	855
I027369		4.34	0.207		1.0	0.42	1195	<10	40	<0.5	46	0.01	<0.5	26	4	941
I027370		0.23	<0.005		0.2	0.03	4	<10	30	<0.5	4	>25.0	<0.5	<1	1	7
I027371		5.85	0.389		1.7	1.15	1330	<10	70	0.5	53	0.23	0.5	30	10	1066
I027372		4.74	1.045		1.3	0.41	760	<10	40	<0.5	114	0.11	<0.5	9	4	653
I027373		3.29	3.89		0.4	0.35	3290	<10	30	<0.5	107	0.01	<0.5	13	4	313
I027374		3.12	3.84		2.6	0.34	536	<10	100	<0.5	111	0.04	0.5	13	4	1575
I027375		3.70	0.975		1.6	0.88	1125	<10	70	<0.5	80	0.15	0.7	31	13	1225
I027376		3.30	0.118		0.8	0.83	119	<10	30	0.5	88	0.13	0.5	24	8	844
I027377		4.83	0.066		0.3	0.53	137	<10	50	<0.5	19	0.14	2.2	25	3	670
I027378		6.30	0.316		1.2	0.53	188	<10	50	<0.5	71	0.11	1.7	16	3	1550
I027379		4.34	0.153		0.6	0.51	246	<10	40	<0.5	60	0.06	1.5	7	3	2940
I027380		0.06	0.663		2.9	1.76	28	10	60	<0.5	2	0.86	2.3	12	30	2590
I027381		5.47	0.215		2.9	2.19	516	<10	50	0.9	138	0.13	0.7	48	13	2460
I027382		7.32	0.107		3.1	2.92	260	<10	60	1.0	43	0.15	2.9	26	23	3890
I027383		6.83	0.217		0.4	3.38	13	<10	110	0.7	96	0.50	0.7	27	46	299
I027384		6.25	0.147		0.3	2.39	9	<10	70	<0.5	46	0.33	<0.5	23	45	300
I027385		5.96	0.344		1.3	2.47	162	<10	50	<0.5	41	0.21	1.4	27	35	1140
I027386		4.43	0.025		0.2	0.39	24	<10	20	<0.5	12	0.06	<0.5	14	3	244
I027387		5.30	0.033		<0.2	0.43	26	<10	30	<0.5	7	0.02	0.8	8	4	265
I027388		5.10	0.722		0.8	1.06	54	<10	20	0.6	24	0.28	2.6	36	22	770
I027389		5.89	0.612		0.4	0.34	19	<10	30	<0.5	25	0.08	0.6	14	6	246
I027390		0.42	<0.005		0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	3
I027391		6.26	0.065		0.3	0.59	158	<10	20	<0.5	20	0.12	<0.5	24	9	448
I027392		4.67	0.034		0.4	0.78	55	<10	60	<0.5	16	0.18	0.9	30	11	503
I027393		3.23	0.471		2.7	0.76	1105	<10	20	0.5	158	0.20	16.6	24	8	2490
I027394		4.87	0.156		<0.2	0.57	70	<10	30	<0.5	14	0.20	<0.5	14	15	195
I027395		5.41	0.188		0.3	0.80	143	<10	30	0.7	48	0.16	<0.5	15	11	477
I027396		6.08	0.394		<0.2	0.90	270	<10	40	0.6	51	0.20	0.8	23	23	253
I027397		5.04	0.260		0.2	0.93	271	<10	50	0.6	13	0.20	1.8	19	23	334
I027398		6.70	0.292		0.3	0.84	210	<10	40	0.7	34	0.15	0.8	12	9	641
I027399		5.27	0.844		0.4	0.81	38	<10	40	0.6	40	0.23	0.5	14	17	379
I027400		0.06	0.722		2.7	1.74	28	10	60	<0.5	2	0.84	2.2	11	30	2530
I027401		6.38	0.177		0.3	1.21	58	<10	40	0.5	20	0.22	<0.5	21	34	272
I027402		6.39	0.190		0.3	2.18	35	<10	70	0.7	9	0.42	<0.5	24	21	193
I027403		4.38	0.170		0.2	2.06	59	<10	90	0.6	4	0.25	<0.5	18	108	194
I027404		6.14	0.126		<0.2	1.38	20	<10	30	0.5	12	0.21	<0.5	14	82	209
I027405		2.92	0.029		<0.2	0.66	25	<10	20	<0.5	5	0.13	<0.5	11	18	139
I027406		4.43	0.179		0.3	0.82	17	<10	30	0.5	19	0.18	<0.5	12	28	225
I027407		6.44	0.093		1.0	0.65	249	<10	30	0.5	14	0.18	1.0	18	27	933

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027368		1.57	<10	<1	0.17	10	0.02	94	1	0.01	4	50	7	0.89	20	<1
I027369		1.62	<10	<1	0.14	10	0.01	44	3	<0.01	7	70	13	1.06	48	<1
I027370		0.11	<10	<1	0.01	<10	0.51	89	<1	<0.01	1	70	<2	0.03	<2	<1
I027371		5.59	10	<1	0.51	10	0.75	262	<1	0.05	14	690	23	2.01	8	12
I027372		1.28	<10	<1	0.14	10	0.03	73	<1	0.01	7	80	8	0.79	10	1
I027373		1.28	<10	<1	0.16	10	0.01	31	1	<0.01	4	80	6	0.82	14	<1
I027374		2.07	<10	<1	0.21	20	0.06	147	2	0.01	5	110	15	1.13	11	<1
I027375		5.72	<10	<1	0.42	10	0.64	257	3	0.01	36	510	<2	2.29	6	5
I027376		6.58	<10	<1	0.48	<10	0.48	271	1	<0.01	19	490	4	3.25	25	4
I027377		4.54	<10	<1	0.35	10	0.09	135	2	0.01	11	540	16	3.14	37	<1
I027378		4.00	<10	<1	0.36	10	0.08	117	2	0.01	7	520	18	2.76	34	1
I027379		2.88	<10	<1	0.31	10	0.05	53	2	<0.01	8	410	4	2.23	43	1
I027380		4.66	<10	<1	0.30	<10	0.58	773	253	0.05	21	750	77	2.21	2	2
I027381		7.45	10	<1	0.73	10	1.10	255	1	0.02	39	610	3	3.76	43	15
I027382		4.26	10	<1	1.07	10	1.67	236	1	<0.01	28	680	11	1.74	11	19
I027383		7.49	10	<1	1.59	<10	2.48	537	1	0.07	36	820	<2	1.40	4	19
I027384		7.07	10	<1	1.45	10	2.11	365	1	0.08	25	520	<2	1.90	<2	19
I027385		7.67	10	<1	1.34	<10	2.29	460	3	0.04	25	450	116	2.76	10	19
I027386		2.40	<10	<1	0.14	10	0.15	166	2	0.01	10	70	5	1.28	14	1
I027387		1.40	<10	<1	0.13	10	0.03	58	1	<0.01	6	40	10	1.10	10	<1
I027388		7.13	<10	<1	0.29	20	0.90	457	1	0.01	32	1000	99	3.57	22	8
I027389		3.06	<10	<1	0.19	10	0.35	291	4	0.04	15	160	49	1.24	7	2
I027390		0.12	<10	<1	<0.01	<10	0.45	86	<1	<0.01	<1	70	<2	0.02	<2	<1
I027391		4.27	<10	<1	0.19	10	0.46	192	1	0.03	25	290	7	2.12	12	5
I027392		5.28	10	<1	0.48	50	0.77	251	4	0.03	29	270	16	2.69	23	6
I027393		5.10	<10	<1	0.22	20	0.56	454	1	0.01	24	640	421	2.59	33	5
I027394		3.53	<10	<1	0.24	20	0.31	246	2	<0.01	30	750	3	1.56	6	3
I027395		2.36	<10	<1	0.24	20	0.11	114	6	<0.01	39	700	11	1.73	7	4
I027396		3.25	<10	<1	0.38	30	0.33	153	2	<0.01	40	810	3	1.63	8	4
I027397		3.77	<10	<1	0.41	20	0.55	192	1	0.01	36	770	3	1.83	7	3
I027398		4.37	<10	<1	0.35	10	0.13	102	2	<0.01	41	640	4	3.23	14	2
I027399		4.35	<10	<1	0.25	20	0.40	255	1	<0.01	25	800	4	1.87	5	4
I027400		4.60	<10	<1	0.30	<10	0.58	759	253	0.05	22	740	75	2.18	<2	2
I027401		4.65	<10	<1	0.34	20	0.81	231	2	0.01	29	700	2	1.79	8	7
I027402		8.47	10	<1	1.23	10	1.98	676	1	0.06	13	540	<2	1.37	<2	22
I027403		5.88	10	<1	0.86	30	1.58	297	1	0.01	48	680	2	1.45	3	16
I027404		3.82	10	<1	0.26	20	0.93	207	2	<0.01	49	700	3	1.32	3	6
I027405		2.40	<10	<1	0.16	10	0.37	172	2	<0.01	24	440	2	0.85	6	3
I027406		3.16	<10	<1	0.20	20	0.43	290	2	<0.01	27	610	4	1.01	3	4
I027407		4.00	<10	<1	0.24	20	0.27	293	4	<0.01	32	650	28	2.04	15	4

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method Analyte Units LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027368		5	20	<0.01	<10	<10	1	<10	25
I027369		7	20	<0.01	10	<10	2	<10	23
I027370		95	<20	<0.01	<10	<10	<1	<10	<2
I027371		21	<20	0.04	<10	<10	56	<10	54
I027372		6	20	<0.01	<10	<10	1	<10	10
I027373		9	20	<0.01	<10	<10	2	<10	9
I027374		8	20	<0.01	<10	<10	1	<10	30
I027375		7	<20	0.01	<10	<10	35	<10	36
I027376		10	<20	0.01	<10	<10	26	<10	29
I027377		9	<20	<0.01	<10	<10	2	<10	34
I027378		8	<20	<0.01	<10	<10	3	<10	35
I027379		8	<20	<0.01	<10	<10	3	<10	20
I027380		57	<20	0.04	<10	<10	33	<10	457
I027381		8	<20	0.05	<10	<10	126	<10	57
I027382		12	<20	0.08	<10	<10	134	<10	44
I027383		22	<20	0.16	<10	<10	175	<10	89
I027384		15	<20	0.15	<10	<10	169	<10	38
I027385		8	<20	0.11	<10	<10	157	<10	117
I027386		6	20	<0.01	<10	10	5	<10	17
I027387		6	20	<0.01	<10	<10	2	<10	12
I027388		9	<20	0.01	<10	<10	48	<10	175
I027389		7	<20	<0.01	<10	<10	9	<10	43
I027390		91	<20	<0.01	<10	<10	<1	<10	2
I027391		7	<20	0.01	<10	<10	31	<10	27
I027392		13	20	0.03	<10	<10	41	<10	50
I027393		11	<20	<0.01	<10	<10	26	<10	1430
I027394		5	<20	0.01	<10	<10	22	<10	15
I027395		11	<20	<0.01	<10	<10	18	<10	9
I027396		7	<20	0.02	<10	<10	33	<10	14
I027397		5	<20	0.01	<10	<10	31	<10	19
I027398		5	<20	<0.01	<10	<10	16	<10	15
I027399		6	<20	<0.01	<10	<10	37	<10	19
I027400		57	<20	0.04	<10	<10	32	<10	446
I027401		5	<20	0.01	<10	<10	70	<10	24
I027402		14	<20	0.14	<10	<10	152	<10	55
I027403		6	<20	0.07	<10	<10	119	<10	41
I027404		4	<20	0.01	<10	<10	71	<10	26
I027405		3	<20	<0.01	<10	<10	22	<10	41
I027406		5	<20	<0.01	<10	<10	42	<10	36
I027407		6	<20	<0.01	<10	<10	28	<10	57

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
I027408		5.02	0.162		0.3	0.61	275	<10	30	0.6	22	0.26	<0.5	21	11	410
I027409		6.79	0.338		0.7	0.64	203	<10	20	<0.5	13	0.19	<0.5	19	8	473
I027410		0.33	0.005		0.2	0.03	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	4
I027411		5.15	0.520		0.6	0.58	31	<10	20	<0.5	28	0.23	<0.5	14	14	375
I027412		5.89	0.991		1.3	0.78	62	<10	30	0.5	58	0.42	<0.5	21	32	640
I027413		4.80	0.059		0.4	0.73	44	<10	20	0.5	8	0.22	<0.5	21	18	285
I027414		5.60	0.250		0.4	0.44	468	<10	20	<0.5	121	0.19	0.5	15	16	334
I027415		2.24	0.022		0.3	0.45	195	<10	20	<0.5	10	0.15	0.6	13	6	267
I027416		2.55	0.243		0.5	0.44	6450	<10	50	0.5	15	0.30	<0.5	25	6	410
I027417		3.70	0.211		0.5	0.45	56	<10	30	<0.5	12	0.18	<0.5	17	3	525
I027418		5.52	0.190		1.1	0.53	516	<10	30	0.6	66	0.15	1.2	11	2	625
I027419		5.53	0.088		0.8	0.60	63	<10	40	0.7	38	0.16	1.5	11	3	570
I027420		0.06	0.316		2.6	1.63	28	10	60	<0.5	3	0.80	2.2	11	29	2450
I027421		3.93	0.019		0.9	0.47	213	<10	20	<0.5	160	0.14	1.3	19	2	767
I027422		4.16	0.048		0.6	0.51	380	<10	30	<0.5	43	0.15	1.0	11	2	416
I027423		3.02	0.072		5.1	0.64	1035	<10	20	0.7	333	0.12	3.1	24	2	3870
I027424		5.42	0.560		0.9	0.53	68	<10	30	<0.5	187	0.16	1.7	9	3	589
I027425		6.32	1.480		1.4	0.48	62	<10	30	<0.5	105	0.16	1.7	11	2	688
I027426		3.87	1.475		1.9	0.48	38	<10	30	<0.5	109	0.15	1.4	12	3	898
I027427		3.40	0.744		0.4	0.50	53	<10	20	0.5	13	0.15	1.3	10	2	397
I027428		5.00	1.005		1.6	0.66	3650	<10	10	0.6	43	0.32	2.3	42	9	799
I027429		4.78	0.103		0.2	0.80	121	<10	10	0.5	5	0.27	<0.5	17	28	173
I027430		0.25	<0.005		<0.2	0.03	6	<10	20	<0.5	3	>25.0	<0.5	<1	1	5
I027431		6.93	0.305		0.6	1.74	34	<10	30	0.5	14	0.34	<0.5	15	44	351
I027432		7.25	0.077		0.6	1.61	124	<10	20	0.7	10	0.63	<0.5	17	15	265
I027433		6.34	0.045		0.2	1.33	917	<10	30	0.9	4	0.67	0.9	23	18	109
I027434		7.45	0.026		0.2	2.01	138	<10	40	1.7	2	0.88	<0.5	38	27	40
I027435		8.06	0.087		0.2	1.79	119	<10	40	1.2	6	1.48	<0.5	20	20	87
I027436		5.52	0.118		0.3	0.48	442	<10	80	<0.5	6	0.75	<0.5	12	5	190
I027437		6.05	0.149		<0.2	0.57	296	<10	60	<0.5	5	0.23	<0.5	9	10	131
I027438		5.88	0.187		0.2	0.63	74	<10	70	<0.5	3	0.18	<0.5	8	11	169
I027439		5.89	0.516		0.3	0.50	38	<10	70	<0.5	8	0.19	<0.5	9	6	244
I027440		0.06	0.322		2.8	1.68	30	10	60	<0.5	2	0.83	2.3	11	29	2530
I027441		6.20	2.14		2.1	0.43	18	<10	110	<0.5	38	0.13	<0.5	6	5	221
I027442		5.04	0.108		<0.2	0.44	12	<10	110	<0.5	4	0.12	<0.5	4	5	79
I027443		4.65	0.062		0.2	2.06	6	<10	90	<0.5	4	0.36	<0.5	27	7	157
I027444		6.74	0.066		0.2	1.83	6	<10	110	<0.5	<2	0.70	<0.5	17	7	56
I027445		5.63	0.342		0.2	1.42	6	<10	80	<0.5	11	0.21	<0.5	8	9	182
I027446		3.80	0.325		0.3	0.45	8	<10	100	<0.5	16	0.13	<0.5	6	4	197
I027447		5.73	0.188		0.4	0.47	10	<10	110	<0.5	19	0.20	<0.5	5	4	210

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1
I027408		6.36	<10	<1	0.22	10	0.48	479	3	0.01	24	630	8	2.57	13	6
I027409		5.33	<10	<1	0.15	10	0.53	299	1	0.01	12	400	5	2.22	15	7
I027410		0.11	<10	<1	0.01	<10	0.45	91	<1	0.01	<1	70	<2	0.02	<2	<1
I027411		4.17	<10	<1	0.17	20	0.41	274	2	0.01	24	610	2	1.65	11	4
I027412		4.43	<10	<1	0.21	20	0.40	282	2	<0.01	37	820	2	1.96	12	6
I027413		5.50	<10	<1	0.12	20	0.50	424	2	<0.01	23	650	2	2.12	8	8
I027414		4.74	<10	<1	0.22	20	0.25	327	2	<0.01	28	680	3	2.47	13	3
I027415		5.46	<10	<1	0.13	30	0.20	705	1	<0.01	16	440	2	2.01	15	2
I027416		8.68	<10	<1	0.26	10	0.51	899	1	<0.01	17	830	6	3.37	11	2
I027417		6.05	<10	<1	0.17	10	0.27	429	<1	<0.01	12	640	4	2.91	9	2
I027418		2.76	<10	<1	0.17	10	0.15	156	2	<0.01	12	620	5	1.81	21	1
I027419		3.09	<10	<1	0.16	10	0.17	309	2	<0.01	13	630	3	1.48	7	1
I027420		4.38	<10	<1	0.28	<10	0.55	724	234	0.05	21	710	73	2.06	<2	2
I027421		4.76	<10	<1	0.27	10	0.11	171	1	<0.01	8	550	9	3.84	16	1
I027422		3.22	<10	<1	0.27	10	0.10	171	5	<0.01	8	560	17	2.22	27	1
I027423		3.62	<10	<1	0.29	10	0.09	114	1	<0.01	13	530	64	3.15	333	1
I027424		2.66	<10	<1	0.23	10	0.18	279	<1	<0.01	10	600	5	1.19	18	1
I027425		3.03	<10	<1	0.18	10	0.19	259	<1	<0.01	10	620	4	1.36	13	1
I027426		3.31	<10	<1	0.17	20	0.19	237	1	<0.01	11	570	4	1.55	25	1
I027427		3.16	<10	<1	0.14	10	0.21	259	1	<0.01	13	570	2	1.31	9	1
I027428		5.42	<10	<1	0.17	10	0.20	260	1	<0.01	29	1260	2	3.17	45	4
I027429		4.58	<10	<1	0.12	20	0.42	472	1	<0.01	18	870	3	1.53	11	8
I027430		0.13	<10	<1	0.01	<10	0.60	92	<1	<0.01	1	80	<2	0.02	<2	<1
I027431		5.76	10	<1	0.88	20	1.40	332	1	0.01	27	850	<2	1.73	9	12
I027432		7.94	10	<1	0.49	10	1.14	756	1	0.01	18	1130	2	2.10	16	12
I027433		7.99	10	<1	0.65	20	1.06	930	1	0.04	23	1190	2	1.33	11	14
I027434		11.65	10	<1	0.89	10	1.74	1830	1	0.01	42	890	<2	0.49	<2	18
I027435		5.95	10	<1	0.90	10	1.73	648	1	0.03	24	950	3	0.77	<2	15
I027436		3.80	<10	<1	0.12	50	0.50	145	1	0.04	5	390	3	1.63	6	4
I027437		2.96	<10	<1	0.17	80	0.40	199	<1	0.04	6	350	2	0.87	2	3
I027438		3.07	<10	<1	0.20	80	0.45	202	<1	0.04	8	390	3	0.95	<2	3
I027439		2.96	<10	<1	0.11	180	0.30	143	7	0.04	6	440	4	1.31	<2	2
I027440		4.55	<10	<1	0.29	<10	0.57	756	241	0.05	22	740	76	2.16	<2	2
I027441		2.01	<10	<1	0.13	80	0.17	136	8	0.05	3	190	4	0.74	<2	1
I027442		1.85	<10	<1	0.12	80	0.19	117	12	0.05	3	200	3	0.67	<2	1
I027443		7.36	10	<1	1.23	<10	1.66	371	2	0.05	7	510	<2	2.33	<2	14
I027444		6.24	10	<1	1.00	10	1.48	392	<1	0.06	6	570	<2	0.78	<2	13
I027445		3.58	10	<1	0.67	10	1.25	147	<1	0.04	3	450	<2	0.94	<2	11
I027446		2.06	<10	<1	0.13	70	0.22	92	2	0.05	2	190	3	0.88	3	1
I027447		1.95	<10	<1	0.12	80	0.21	103	<1	0.04	2	220	4	0.75	<2	1

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method Analyte Units LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027408		8	<20	<0.01	<10	<10	37	<10	62
I027409		6	<20	<0.01	<10	<10	36	<10	38
I027410		89	<20	<0.01	<10	<10	1	<10	2
I027411		7	<20	<0.01	<10	<10	33	<10	30
I027412		7	<20	0.01	<10	<10	50	<10	26
I027413		5	<20	<0.01	<10	<10	52	<10	37
I027414		7	<20	<0.01	<10	<10	19	<10	22
I027415		7	<20	<0.01	<10	<10	7	<10	42
I027416		6	<20	<0.01	<10	<10	5	<10	28
I027417		5	<20	<0.01	<10	<10	5	<10	21
I027418		11	<20	<0.01	<10	<10	5	<10	18
I027419		11	<20	<0.01	<10	<10	6	<10	19
I027420		53	<20	0.04	<10	<10	30	<10	427
I027421		5	<20	<0.01	<10	<10	3	<10	23
I027422		8	<20	<0.01	<10	<10	3	<10	23
I027423		5	<20	<0.01	<10	<10	4	<10	112
I027424		9	<20	<0.01	<10	<10	5	<10	24
I027425		10	<20	<0.01	<10	<10	4	<10	24
I027426		12	<20	<0.01	<10	<10	4	<10	29
I027427		11	<20	<0.01	<10	<10	5	<10	20
I027428		9	<20	<0.01	<10	<10	19	<10	32
I027429		4	<20	0.01	<10	<10	27	<10	40
I027430		94	<20	<0.01	<10	<10	<1	<10	5
I027431		5	<20	0.07	<10	<10	93	<10	39
I027432		7	<20	0.04	<10	<10	103	<10	60
I027433		15	<20	0.07	<10	<10	109	<10	78
I027434		17	<20	0.03	<10	<10	112	<10	125
I027435		57	<20	0.04	<10	<10	111	<10	39
I027436		25	20	<0.01	<10	<10	32	<10	8
I027437		11	20	0.01	<10	<10	16	<10	12
I027438		9	20	0.01	<10	<10	17	<10	17
I027439		11	40	<0.01	<10	<10	14	<10	10
I027440		55	<20	0.04	<10	<10	31	<10	447
I027441		10	20	<0.01	<10	<10	5	<10	8
I027442		9	20	<0.01	<10	<10	7	<10	7
I027443		9	<20	0.16	<10	<10	160	<10	44
I027444		11	<20	0.20	<10	<10	197	<10	31
I027445		7	<20	0.08	<10	<10	64	<10	16
I027446		9	20	<0.01	<10	<10	4	<10	6
I027447		11	20	<0.01	<10	<10	5	<10	7

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
I027448		4.15	0.062		<0.2	0.51	10	<10	130	<0.5	5	0.45	<0.5	5	5	115
I027449		4.49	0.037		<0.2	1.19	7	<10	150	<0.5	5	0.42	<0.5	8	46	186
I027450		0.27	<0.005		<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4
I027451		5.67	0.086		0.2	1.17	6	<10	110	<0.5	4	0.24	<0.5	5	8	95
I027452		5.07	0.110		0.2	1.41	3	<10	90	<0.5	6	0.22	<0.5	28	42	269
I027453		4.56	0.278		0.2	0.93	6	<10	60	<0.5	8	0.20	<0.5	40	28	364
I027454		4.68	1.100		0.9	0.91	7	<10	100	<0.5	19	0.18	<0.5	11	10	576
I027455		4.49	0.336		0.2	0.73	5	<10	140	<0.5	5	0.11	<0.5	6	9	147
I027456		2.65	0.247		<0.2	0.62	<2	<10	200	<0.5	4	0.08	<0.5	6	7	116
I027457		6.26	0.108		<0.2	0.79	2	<10	250	<0.5	2	0.12	<0.5	4	10	76
I027458		6.20	0.090		<0.2	0.97	2	<10	220	<0.5	4	0.28	<0.5	4	19	62
I027459		6.07	0.132		<0.2	0.98	<2	<10	270	<0.5	5	0.21	<0.5	4	8	70
I027460		0.06	0.315		0.8	1.53	5	<10	120	<0.5	4	0.91	<0.5	10	28	3200
I027461		6.09	0.094		<0.2	0.95	2	<10	250	<0.5	5	0.13	<0.5	6	8	89
I027462		6.41	0.290		<0.2	1.16	<2	<10	380	<0.5	3	0.28	<0.5	7	10	68
I027463		6.63	0.044		<0.2	2.50	3	<10	600	<0.5	2	0.33	<0.5	12	33	53
I027464		5.70	0.154		<0.2	2.60	2	<10	380	<0.5	4	0.56	<0.5	11	62	73
I027465		5.81	0.343		<0.2	2.14	19	<10	120	0.5	8	0.59	<0.5	15	46	224
I027466		6.34	0.526		0.3	2.19	<2	<10	100	<0.5	10	0.50	<0.5	25	12	454
I027467		6.69	0.218		<0.2	1.87	3	<10	150	<0.5	7	0.73	<0.5	20	26	210
I027468		5.73	0.217		<0.2	1.89	2	<10	160	<0.5	2	0.66	<0.5	19	3	155
I027469		5.84	0.033		<0.2	1.39	6	<10	230	<0.5	3	0.69	<0.5	12	8	73
I027470		0.32	<0.005		<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2
I027471		6.12	0.074		<0.2	1.07	<2	<10	100	<0.5	<2	0.20	<0.5	5	13	86
I027472		6.16	0.038		<0.2	1.91	2	<10	120	<0.5	5	0.50	<0.5	18	7	187
I027473		5.78	0.103		<0.2	2.16	3	<10	200	<0.5	10	0.58	<0.5	20	11	138
I027474		6.17	0.060		<0.2	1.69	6	<10	190	<0.5	9	0.32	<0.5	8	8	83

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1
I027448		2.14	<10	<1	0.13	90	0.23	119	<1	0.05	2	270	4	0.90	<2	1
I027449		3.44	10	<1	0.55	60	0.99	195	2	0.05	13	320	4	1.10	<2	6
I027450		0.11	<10	<1	0.01	<10	0.48	91	<1	<0.01	<1	70	2	<0.01	2	<1
I027451		3.04	10	<1	0.47	40	0.96	176	7	0.04	2	270	2	0.70	<2	6
I027452		5.01	10	<1	0.70	20	1.07	148	3	0.07	21	520	3	2.66	<2	14
I027453		5.44	<10	<1	0.29	20	0.60	119	2	0.04	28	500	3	3.82	<2	8
I027454		4.19	10	<1	0.29	50	0.65	169	5	0.04	4	350	3	1.77	<2	5
I027455		3.14	10	<1	0.11	10	0.50	127	<1	0.05	3	320	2	1.31	<2	8
I027456		2.89	<10	<1	0.08	10	0.38	110	1	0.05	1	240	2	1.39	<2	7
I027457		3.14	10	<1	0.24	10	0.51	157	<1	0.06	1	260	4	1.04	<2	9
I027458		3.41	10	1	0.38	10	0.63	205	<1	0.06	4	320	<2	0.92	<2	10
I027459		3.32	10	<1	0.41	10	0.53	197	<1	0.07	1	310	2	0.82	<2	11
I027460		3.08	10	1	0.20	10	0.74	459	255	0.09	24	650	8	0.47	2	5
I027461		3.30	10	<1	0.33	10	0.52	168	2	0.06	2	290	<2	0.84	<2	11
I027462		3.20	10	1	0.46	10	0.64	201	<1	0.08	3	340	4	0.65	<2	11
I027463		5.41	10	1	1.64	10	1.62	294	1	0.07	13	630	3	0.54	<2	18
I027464		5.35	10	<1	1.50	10	1.63	233	1	0.09	25	760	4	0.68	<2	19
I027465		4.64	10	<1	0.87	10	1.41	153	1	0.11	25	850	3	1.56	<2	16
I027466		6.88	10	<1	0.93	10	1.86	236	1	0.10	17	760	3	2.88	<2	20
I027467		5.67	10	<1	0.93	<10	1.72	370	<1	0.08	15	480	3	1.63	<2	14
I027468		6.32	10	1	0.89	<10	1.51	382	<1	0.08	7	720	2	1.57	2	15
I027469		4.83	10	<1	0.81	10	0.95	318	1	0.06	3	620	<2	0.70	<2	11
I027470		0.10	<10	<1	0.01	<10	0.69	98	<1	0.01	<1	60	<2	<0.01	<2	<1
I027471		3.04	10	<1	0.46	10	0.82	141	1	0.06	3	240	4	0.90	2	8
I027472		5.61	10	<1	1.17	10	1.58	228	1	0.06	4	470	4	1.62	2	17
I027473		5.82	10	<1	1.13	10	1.88	285	<1	0.06	6	480	<2	1.39	2	17
I027474		3.65	10	<1	1.03	10	1.39	155	<1	0.05	4	390	<2	0.56	4	14

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

Sample Description	Method Analyte Units LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027448		18	30	<0.01	<10	<10	7	<10	8
I027449		15	20	0.04	<10	<10	39	<10	38
I027450		89	<20	<0.01	<10	<10	<1	<10	3
I027451		9	20	0.06	<10	<10	14	<10	31
I027452		13	<20	0.07	<10	<10	124	<10	20
I027453		9	<20	0.02	<10	<10	86	<10	11
I027454		7	20	0.04	<10	<10	48	<10	18
I027455		5	<20	0.02	<10	<10	16	<10	15
I027456		5	<20	0.01	<10	<10	9	<10	18
I027457		4	<20	0.07	<10	<10	16	<10	20
I027458		7	<20	0.11	<10	<10	22	<10	23
I027459		7	<20	0.10	<10	<10	8	<10	19
I027460		46	<20	0.14	<10	<10	61	10	59
I027461		4	<20	0.09	<10	<10	7	<10	14
I027462		9	<20	0.10	<10	<10	24	<10	28
I027463		10	<20	0.24	<10	<10	118	<10	35
I027464		15	<20	0.29	10	<10	165	<10	30
I027465		24	<20	0.19	<10	<10	170	<10	22
I027466		18	<20	0.25	<10	<10	231	<10	25
I027467		12	<20	0.18	<10	<10	148	<10	31
I027468		8	<20	0.23	<10	<10	193	<10	30
I027469		9	<20	0.19	10	<10	88	<10	27
I027470		96	<20	<0.01	<10	<10	1	<10	<2
I027471		6	<20	0.06	<10	<10	21	<10	35
I027472		9	<20	0.21	<10	<10	148	<10	29
I027473		9	<20	0.21	<10	<10	182	<10	29
I027474		9	<20	0.13	<10	<10	65	<10	20

Comments: **Corrected copy for Au- AA23 on samples I027371 to I027429**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17168316

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Au- GRA21	ME-ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17171147

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 194 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E444721		9.96	0.120	0.4	0.52	274	<10	10	0.9	2	2.13	<0.5	17	8	408	4.61
E444722		9.06	0.065	0.3	0.39	118	<10	10	0.8	6	1.66	<0.5	17	6	341	3.99
E444723		10.70	0.104	0.6	0.63	93	<10	60	0.7	5	0.38	<0.5	30	15	598	4.34
E444724		9.34	0.018	0.3	1.07	132	<10	30	0.6	<2	0.33	<0.5	34	41	554	5.25
E444725		8.98	0.008	0.2	1.36	158	<10	50	0.7	<2	0.33	<0.5	25	29	429	4.51
E444726		10.55	0.010	0.3	1.23	87	<10	40	0.5	<2	0.31	<0.5	19	27	335	4.03
E444727		8.73	0.029	0.3	2.24	23	<10	60	0.8	<2	0.34	<0.5	23	24	458	5.45
E444728		5.50	0.938	0.3	1.00	79	<10	30	0.6	8	0.43	<0.5	12	9	365	2.96
E444729		5.82	0.038	0.4	0.89	42	<10	20	0.5	12	0.24	<0.5	11	7	375	2.65
E444730		0.35	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	4	0.10
E444731		7.47	0.052	0.3	0.56	198	<10	20	0.6	7	0.67	0.7	13	4	377	3.18
E444732		5.65	0.397	1.7	0.40	459	<10	20	0.5	28	0.72	<0.5	25	7	1030	4.02
E444733		7.10	0.622	7.4	0.45	532	<10	20	<0.5	89	2.89	2.0	34	8	5510	7.93
E444734		9.81	0.636	5.0	0.39	3350	<10	<10	0.6	106	1.93	0.6	94	9	4890	19.25
E444735		2.32	3.75	8.3	0.33	9440	<10	<10	<0.5	258	1.88	1.0	73	8	5910	12.40
E444736		12.29	0.214	1.9	0.46	471	<10	10	0.6	42	1.19	<0.5	33	9	1890	11.45
E444737		10.71	0.066	0.2	0.92	108	<10	100	0.6	<2	0.60	<0.5	10	18	454	7.42
E444738		10.27	0.068	0.2	1.03	49	<10	90	0.7	3	0.48	<0.5	8	17	393	5.63
E444739		9.81	0.413	1.7	1.09	4880	<10	20	1.2	37	0.57	<0.5	50	11	2450	18.80
E444740		0.06	0.301	3.0	1.70	33	10	60	<0.5	<2	0.87	2.2	11	30	2570	4.72
E444741		10.24	0.124	1.0	0.67	787	<10	10	0.8	38	0.63	<0.5	46	9	2210	21.0
E444742		8.17	0.109	0.7	1.21	76	<10	10	0.5	26	0.56	<0.5	14	16	857	7.39
E444743		10.90	0.114	1.1	0.81	86	<10	40	<0.5	79	1.37	<0.5	12	12	1060	3.85
E444744		9.34	0.528	1.6	0.82	65	<10	20	0.5	48	2.64	0.5	19	9	1450	4.67
E444745		9.95	0.558	3.2	0.58	70	<10	10	1.0	176	4.71	0.7	19	16	1710	8.17
E444746		10.80	0.320	1.4	0.50	280	<10	10	1.3	63	2.81	0.7	16	17	1360	6.62
E444747		8.36	0.022	0.3	0.52	18	<10	10	0.6	3	1.04	<0.5	11	2	437	3.68
E444748		5.08	0.463	0.2	1.35	43	<10	10	1.2	5	0.48	<0.5	30	19	310	5.59
E444749		7.29	0.722	0.2	2.12	70	<10	30	1.0	8	0.48	<0.5	21	33	328	5.59
E444750		0.46	0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.11
E444751		5.19	0.341	1.3	1.01	1820	<10	10	0.7	17	0.39	0.7	28	19	921	6.33
E444752		4.50	0.156	0.4	0.37	77	<10	20	<0.5	<2	0.38	<0.5	7	4	1390	1.23
E444753		5.90	0.030	0.6	0.45	76	<10	60	0.6	2	0.17	<0.5	12	3	2330	1.79
E444754		2.95	0.331	0.5	0.58	63	<10	10	0.7	17	0.33	0.9	24	12	982	6.32
E444755		8.44	0.197	0.8	0.51	144	<10	10	0.9	8	0.36	2.0	44	9	940	8.90
E444756		10.09	0.042	0.5	0.69	69	<10	10	0.7	<2	0.52	0.6	40	18	1290	12.50
E444757		5.41	0.026	0.3	1.78	14	<10	20	0.9	<2	0.94	<0.5	17	29	495	5.38
E444758		4.27	0.047	0.9	1.33	22	<10	20	0.6	13	3.89	<0.5	15	24	808	5.15
E444759		6.89	0.245	0.2	0.66	13	<10	140	0.6	<2	8.5	<0.5	13	11	352	4.10
E444760		0.06	0.343	2.6	1.69	26	10	60	<0.5	<2	0.85	2.2	10	29	2480	4.59

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444721		<10	1	0.15	10	0.85	345	2	<0.01	13	450	<2	1.45	2	15	25
E444722		<10	1	0.15	10	0.62	411	1	<0.01	11	340	<2	1.80	6	10	19
E444723		<10	<1	0.17	10	0.33	456	4	<0.01	19	530	3	1.79	7	14	9
E444724		<10	1	0.44	10	0.65	286	7	<0.01	23	480	3	2.45	7	11	10
E444725		<10	<1	0.62	10	0.76	179	9	0.01	20	410	3	1.96	6	10	11
E444726		<10	1	0.60	10	0.75	142	7	0.02	17	470	2	1.62	<2	12	11
E444727		10	1	1.15	10	1.36	154	3	0.02	16	510	2	2.25	<2	14	13
E444728		10	<1	0.19	30	0.65	167	4	<0.01	9	770	10	1.02	<2	4	14
E444729		10	<1	0.12	30	0.50	191	13	<0.01	8	690	10	0.95	<2	3	10
E444730		<10	2	0.01	<10	0.87	90	<1	<0.01	<1	80	<2	<0.01	<2	<1	89
E444731		<10	<1	0.11	30	0.37	310	7	<0.01	7	790	18	1.18	4	3	14
E444732		<10	1	0.18	10	0.29	177	5	<0.01	20	510	11	2.43	17	4	12
E444733		<10	<1	0.24	50	1.28	435	<1	<0.01	66	600	22	3.47	14	7	59
E444734		<10	1	0.15	10	1.04	350	<1	<0.01	92	340	9	>10.0	20	12	30
E444735		<10	1	0.15	10	0.99	323	1	<0.01	93	680	13	7.98	34	9	31
E444736		<10	<1	0.09	20	0.66	266	2	<0.01	51	620	5	5.91	11	5	30
E444737		<10	<1	0.11	10	0.57	180	<1	0.04	17	850	3	2.18	2	8	22
E444738		<10	<1	0.10	10	0.68	185	<1	0.01	20	820	4	1.60	<2	8	20
E444739		<10	1	0.09	20	0.65	263	3	0.01	12	630	4	>10.0	10	8	25
E444740		<10	<1	0.29	<10	0.59	782	249	0.05	22	750	80	2.33	<2	2	55
E444741		<10	1	0.08	10	0.68	321	1	0.01	9	500	5	>10.0	2	6	21
E444742		10	<1	0.34	30	0.98	239	1	0.02	23	750	8	2.44	4	8	23
E444743		10	1	0.41	60	1.03	291	5	0.01	21	530	26	1.27	4	10	51
E444744		<10	<1	0.47	10	1.40	409	2	0.01	33	1120	12	1.96	<2	11	71
E444745		<10	<1	0.19	10	2.25	721	<1	<0.01	34	580	34	2.34	<2	23	137
E444746		<10	<1	0.14	10	1.43	501	1	<0.01	32	540	12	1.77	55	21	73
E444747		<10	<1	0.13	20	0.63	211	1	<0.01	7	530	4	1.28	<2	9	20
E444748		10	1	0.26	40	0.89	745	1	0.01	21	360	3	1.41	3	11	18
E444749		10	1	0.84	10	1.46	373	1	<0.01	18	450	4	1.78	<2	23	20
E444750		<10	2	<0.01	<10	0.57	93	<1	<0.01	<1	70	<2	0.01	<2	<1	91
E444751		<10	<1	0.20	10	0.77	342	<1	<0.01	21	650	8	2.70	<2	20	10
E444752		<10	<1	0.15	20	0.04	29	3	<0.01	7	590	7	1.03	11	3	8
E444753		<10	<1	0.15	20	0.05	63	3	<0.01	10	630	10	1.33	9	4	9
E444754		<10	1	0.09	10	0.45	416	1	<0.01	18	520	4	2.48	11	15	9
E444755		<10	1	0.08	10	0.47	705	<1	<0.01	25	520	2	3.63	15	18	8
E444756		<10	1	0.05	10	0.73	411	<1	<0.01	25	870	2	7.47	4	13	18
E444757		10	1	0.32	10	1.22	319	1	0.02	17	420	<2	1.77	2	16	30
E444758		10	1	0.22	20	1.08	177	<1	0.01	12	500	2	2.18	<2	14	132
E444759		<10	<1	0.14	10	0.75	363	2	<0.01	8	360	3	1.13	<2	11	203
E444760		<10	<1	0.29	<10	0.58	758	243	0.05	21	730	78	2.27	<2	2	55

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444721		<20	<0.01	<10	<10	56	<10	17
E444722		<20	<0.01	<10	<10	30	<10	18
E444723		<20	<0.01	<10	<10	58	<10	29
E444724		<20	0.03	<10	<10	81	<10	17
E444725		<20	0.04	<10	<10	74	<10	16
E444726		<20	0.05	<10	<10	84	<10	14
E444727		<20	0.10	<10	<10	120	<10	15
E444728		<20	0.01	<10	<10	30	<10	20
E444729		<20	<0.01	<10	<10	25	<10	19
E444730		<20	<0.01	<10	<10	<1	<10	4
E444731		<20	<0.01	<10	<10	18	<10	75
E444732		<20	<0.01	<10	<10	22	<10	32
E444733		<20	<0.01	<10	<10	23	<10	168
E444734		<20	<0.01	10	<10	48	<10	43
E444735		<20	<0.01	10	<10	31	<10	65
E444736		<20	<0.01	10	<10	28	<10	29
E444737		<20	<0.01	<10	<10	57	<10	19
E444738		<20	<0.01	<10	<10	53	<10	24
E444739		<20	<0.01	10	<10	49	10	20
E444740		<20	0.04	<10	<10	32	<10	461
E444741		<20	0.01	<10	<10	40	10	17
E444742		<20	0.02	<10	<10	56	<10	38
E444743		20	0.03	<10	<10	47	<10	36
E444744		<20	0.04	<10	<10	52	<10	51
E444745		<20	<0.01	<10	<10	92	<10	66
E444746		<20	<0.01	<10	<10	89	<10	88
E444747		<20	<0.01	<10	<10	35	<10	31
E444748		<20	0.02	<10	<10	72	<10	50
E444749		<20	0.08	<10	<10	135	<10	33
E444750		<20	<0.01	<10	<10	1	<10	<2
E444751		<20	0.01	<10	<10	86	<10	33
E444752		<20	<0.01	<10	<10	10	<10	13
E444753		<20	<0.01	<10	<10	13	<10	14
E444754		<20	<0.01	<10	<10	63	<10	28
E444755		<20	<0.01	<10	<10	81	<10	50
E444756		<20	<0.01	<10	<10	84	<10	28
E444757		<20	0.03	<10	<10	121	<10	35
E444758		<20	0.02	<10	<10	108	<10	18
E444759		<20	0.01	<10	<10	53	<10	14
E444760		<20	0.04	<10	<10	31	<10	446

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444761		5.28	0.025	<0.2	0.97	23	<10	50	0.5	<2	1.60	<0.5	19	11	219	3.54
E444762		10.48	0.061	<0.2	0.69	40	<10	30	0.7	<2	2.41	<0.5	14	15	192	3.98
E444763		7.95	0.091	0.7	0.40	20	<10	10	0.6	5	2.53	<0.5	16	9	615	3.94
E444764		6.97	0.107	1.1	0.45	71	<10	10	0.7	49	2.70	<0.5	26	12	979	6.12
E444765		7.71	0.197	0.7	0.45	143	<10	30	0.6	20	1.16	<0.5	26	17	694	5.29
E444766		7.98	0.119	1.1	0.37	26	<10	10	0.7	23	2.32	<0.5	19	14	860	5.74
E444767		7.64	0.149	3.1	0.37	27	<10	10	0.5	5	2.92	0.5	25	9	2140	6.81
E444768		8.13	0.051	0.3	1.68	26	<10	30	0.9	<2	1.82	<0.5	15	15	487	5.29
E444769		10.18	0.067	0.9	1.08	19	<10	10	0.9	3	0.40	<0.5	41	19	1205	8.83
E444770		0.36	<0.005	<0.2	0.05	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	8	0.17
E444771		9.77	0.855	0.4	0.57	18	<10	20	<0.5	5	0.54	<0.5	22	8	696	5.81
E444772		9.30	0.063	0.3	1.33	17	<10	30	0.6	4	0.58	<0.5	22	24	537	6.26
E444773		8.68	0.356	0.3	2.24	17	<10	60	0.7	3	0.75	<0.5	20	44	368	6.49
E444774		10.52	0.154	0.4	1.99	13	<10	50	0.6	5	0.90	<0.5	28	49	651	8.76
E444775		9.48	0.040	0.5	1.58	15	<10	40	0.5	3	1.17	<0.5	21	34	662	6.61
E444776		9.24	0.015	0.3	1.82	10	<10	50	0.7	3	2.27	<0.5	15	22	341	6.10
E444777		10.02	0.145	0.8	1.79	13	<10	40	0.9	7	1.50	<0.5	17	31	743	5.58
E444778		9.87	0.083	1.0	0.69	32	<10	10	1.0	5	2.45	<0.5	19	13	994	5.45
E444779		8.66	0.123	0.3	0.55	96	<10	10	0.8	6	1.31	<0.5	13	6	401	3.75
E444780		0.06	0.311	3.2	1.69	27	10	60	<0.5	2	0.82	2.0	10	29	2480	4.42
E444781		9.93	0.142	0.2	0.42	59	<10	10	0.5	2	0.96	<0.5	5	3	182	2.45
E444782		8.97	0.084	0.8	0.49	144	<10	10	0.6	5	1.60	<0.5	18	5	789	5.26
E444783		4.88	0.195	1.4	0.51	96	<10	<10	0.7	15	2.47	<0.5	24	3	1365	6.40
E444784		7.37	0.068	1.1	0.45	137	<10	30	1.0	6	2.18	<0.5	17	10	1210	6.24
E444785		9.62	0.104	0.2	0.50	18	<10	<10	0.9	4	3.15	<0.5	10	19	250	6.05
E444786		9.33	0.227	0.4	0.60	33	<10	10	1.2	10	3.63	<0.5	21	22	400	6.99
E444787		8.12	0.024	0.7	1.77	19	10	20	2.1	22	3.36	<0.5	17	30	659	6.88
E444788		8.48	0.293	0.8	0.73	31	<10	10	1.0	31	1.46	0.6	13	18	728	4.79
E444789		7.75	0.034	0.5	0.47	17	<10	20	0.7	8	1.51	<0.5	10	5	527	2.94
E444790		0.37	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.11
E444791		10.51	0.033	<0.2	0.40	47	<10	30	0.5	2	0.94	<0.5	5	2	202	1.89
E444792		10.01	0.037	<0.2	0.40	62	<10	60	0.5	3	1.19	<0.5	5	4	164	2.09
E444793		7.43	0.058	1.0	0.85	58	<10	20	1.4	25	2.51	0.9	19	22	939	5.84
E444794		11.05	0.035	0.3	1.12	53	<10	40	0.9	2	1.93	<0.5	12	23	418	4.48
E444795		9.57	0.038	0.5	2.06	15	<10	70	0.5	3	1.67	<0.5	18	40	478	5.87
E444796		4.50	0.019	0.2	2.33	32	<10	90	0.5	3	2.45	<0.5	18	40	258	5.64
E444797		4.41	0.056	0.5	2.11	44	<10	60	0.6	4	2.26	<0.5	22	37	522	6.04
E444798		5.93	0.043	0.6	1.67	34	<10	40	1.1	4	4.48	<0.5	30	61	711	7.31
E444799		4.41	0.095	0.3	0.72	22	<10	20	0.6	4	1.52	<0.5	11	9	347	3.13
E444800		0.06	0.697	2.9	1.15	13	10	110	<0.5	<2	0.77	<0.5	10	47	7870	2.45

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444761		<10	<1	0.52	10	1.03	198	3	<0.01	11	420	6	1.23	<2	12	46
E444762		<10	<1	0.33	10	1.07	376	3	<0.01	13	520	2	1.14	<2	14	48
E444763		<10	<1	0.17	10	1.00	293	2	<0.01	13	390	2	1.26	<2	12	49
E444764		<10	1	0.14	20	1.10	296	5	<0.01	19	390	2	2.64	4	15	40
E444765		<10	<1	0.17	20	0.61	322	5	0.01	18	420	3	2.27	10	13	21
E444766		<10	<1	0.17	10	1.07	466	1	<0.01	16	850	4	1.73	6	12	57
E444767		<10	1	0.21	20	1.41	442	<1	0.01	18	1040	3	2.33	9	11	48
E444768		10	<1	0.67	10	1.38	184	<1	0.03	13	430	3	1.70	5	14	37
E444769		<10	1	0.22	20	0.88	381	<1	0.01	18	480	5	4.13	6	10	10
E444770		<10	<1	0.01	<10	0.50	94	<1	<0.01	<1	70	<2	0.03	<2	<1	89
E444771		<10	<1	0.12	20	0.53	232	<1	0.04	11	810	4	2.67	<2	8	11
E444772		10	<1	0.64	20	1.28	314	3	0.05	18	780	3	2.30	<2	15	19
E444773		10	<1	1.44	20	2.02	386	2	0.11	18	840	<2	1.58	3	19	36
E444774		10	1	1.37	10	2.21	296	2	0.05	22	850	2	2.54	2	23	33
E444775		10	1	1.03	10	1.73	236	1	0.06	15	890	3	2.27	4	19	39
E444776		10	<1	1.22	10	2.00	247	1	0.04	17	1070	2	1.51	2	17	59
E444777		10	<1	1.05	10	1.80	259	1	0.02	21	1020	2	1.59	3	15	43
E444778		<10	<1	0.20	10	1.02	674	1	<0.01	12	1260	5	1.96	8	15	51
E444779		<10	1	0.18	20	0.61	345	3	<0.01	11	880	5	1.45	7	8	28
E444780		<10	<1	0.29	<10	0.56	749	238	0.06	20	710	75	2.17	<2	2	56
E444781		<10	<1	0.09	10	0.53	139	1	0.02	5	390	6	0.80	3	7	29
E444782		<10	<1	0.11	10	0.85	246	1	<0.01	9	850	4	2.28	13	11	30
E444783		<10	<1	0.13	10	1.11	331	1	<0.01	10	1090	6	3.15	7	12	34
E444784		<10	<1	0.16	10	1.07	513	<1	<0.01	19	1220	6	2.08	9	16	33
E444785		<10	<1	0.13	10	1.49	634	1	<0.01	17	680	2	0.84	<2	18	36
E444786		<10	<1	0.13	10	1.88	716	<1	<0.01	41	830	5	0.96	<2	26	71
E444787		10	1	0.61	10	2.17	654	1	0.01	39	760	3	0.76	4	34	88
E444788		<10	<1	0.13	30	0.92	350	4	0.01	22	800	15	1.51	3	15	39
E444789		<10	<1	0.15	40	0.65	162	6	0.02	6	960	6	1.27	3	5	48
E444790		<10	<1	0.01	<10	0.47	91	<1	0.01	<1	60	<2	<0.01	<2	<1	90
E444791		<10	<1	0.09	120	0.38	123	<1	0.01	3	300	5	0.76	3	2	29
E444792		<10	<1	0.10	120	0.42	134	<1	0.02	3	320	6	0.78	2	2	34
E444793		<10	<1	0.27	10	1.47	312	3	0.01	20	1020	19	1.94	<2	17	80
E444794		10	<1	0.57	30	1.33	216	4	0.02	23	740	4	1.34	<2	16	61
E444795		10	<1	1.27	10	2.09	314	2	0.05	31	960	4	1.48	3	23	63
E444796		10	<1	1.46	10	2.10	385	<1	0.08	31	970	2	0.90	3	21	72
E444797		10	<1	1.29	10	1.90	333	<1	0.07	34	940	4	1.58	2	21	65
E444798		10	<1	0.65	10	1.69	623	1	0.05	41	1490	5	2.27	<2	16	161
E444799		<10	<1	0.24	20	0.79	155	1	0.02	13	640	4	1.11	<2	10	42
E444800		<10	<1	0.10	<10	0.54	395	381	0.07	31	500	6	0.61	2	4	38

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444761		<20	0.03	<10	<10	64	<10	16
E444762		<20	0.01	<10	<10	58	<10	15
E444763		<20	<0.01	<10	<10	43	<10	23
E444764		<20	<0.01	<10	<10	61	<10	24
E444765		<20	<0.01	<10	<10	55	<10	22
E444766		<20	<0.01	<10	<10	43	<10	33
E444767		<20	<0.01	<10	<10	38	<10	47
E444768		<20	0.06	<10	<10	109	<10	24
E444769		<20	0.01	<10	<10	64	<10	30
E444770		<20	<0.01	<10	<10	1	<10	<2
E444771		<20	0.01	<10	<10	31	<10	21
E444772		<20	0.08	<10	<10	77	<10	28
E444773		<20	0.20	<10	<10	119	<10	33
E444774		<20	0.18	<10	<10	143	<10	31
E444775		<20	0.13	<10	<10	110	<10	28
E444776		<20	0.15	<10	<10	77	<10	28
E444777		<20	0.11	<10	<10	70	<10	30
E444778		<20	<0.01	<10	<10	47	<10	28
E444779		<20	0.01	<10	<10	30	<10	36
E444780		<20	0.04	<10	<10	31	<10	438
E444781		<20	<0.01	<10	<10	10	<10	11
E444782		<20	<0.01	<10	<10	28	<10	23
E444783		<20	<0.01	<10	<10	35	<10	36
E444784		<20	<0.01	<10	<10	63	<10	57
E444785		<20	<0.01	<10	<10	71	<10	40
E444786		<20	<0.01	<10	<10	117	<10	49
E444787		<20	0.04	<10	<10	142	<10	47
E444788		<20	<0.01	<10	<10	56	<10	65
E444789		<20	<0.01	<10	<10	24	<10	32
E444790		<20	<0.01	<10	<10	<1	<10	<2
E444791		30	<0.01	<10	<10	6	<10	8
E444792		30	<0.01	<10	<10	7	<10	8
E444793		<20	0.01	<10	<10	76	<10	112
E444794		<20	0.05	<10	<10	81	<10	23
E444795		<20	0.16	<10	<10	147	<10	36
E444796		<20	0.23	<10	<10	150	<10	36
E444797		<20	0.18	<10	<10	140	<10	33
E444798		<20	0.07	<10	<10	101	<10	53
E444799		<20	0.01	<10	<10	40	<10	17
E444800		<20	0.11	<10	<10	49	30	58

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444801		6.04	0.036	0.2	0.60	111	<10	10	0.9	2	3.93	<0.5	9	21	219	4.01
E444802		6.52	0.071	0.2	1.07	424	<10	10	1.3	2	3.28	<0.5	14	24	249	3.80
E444803		6.22	0.076	0.4	0.92	219	<10	30	1.1	4	2.77	<0.5	17	26	468	4.36
E444804		6.06	0.028	0.4	0.46	29	<10	150	0.9	3	2.20	<0.5	14	8	441	3.67
E444805		4.70	0.027	0.3	0.84	46	<10	150	1.1	3	1.13	<0.5	16	13	418	4.63
E444806		4.92	0.018	0.2	0.63	57	<10	10	0.9	8	5.54	<0.5	13	17	347	4.72
E444807		4.59	0.166	3.9	1.12	242	<10	30	1.3	65	9.7	1.6	22	167	3640	6.75
E444808		6.00	0.087	0.9	2.28	61	<10	40	0.7	7	1.99	<0.5	15	103	669	6.11
E444809		6.84	0.090	1.0	0.94	32	<10	20	0.8	22	2.32	0.7	18	34	754	5.28
E444810		0.41	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	4	0.15
E444811		6.46	0.636	0.6	0.88	31	<10	20	1.1	4	2.90	<0.5	16	12	628	5.22
E444812		4.96	0.168	1.8	0.44	129	<10	30	0.7	179	1.88	0.7	13	6	1440	3.67
E444813		4.79	1.395	1.5	1.21	45	<10	40	0.9	77	2.19	<0.5	15	35	1265	4.60
E444814		6.67	0.226	1.3	0.99	228	<10	60	0.7	128	2.36	<0.5	15	40	952	3.96
E444815		6.46	0.049	0.5	1.75	11	<10	210	<0.5	17	1.20	<0.5	13	65	402	4.31
E444816		6.51	0.034	0.2	1.92	15	<10	230	<0.5	8	0.86	<0.5	14	64	268	4.51
E444817		6.59	0.036	0.7	1.37	294	<10	140	0.9	28	2.57	<0.5	17	57	558	4.76
E444818		4.33	0.121	0.2	1.85	21	<10	60	0.9	2	0.35	<0.5	10	59	212	3.01
E444819		5.74	0.029	0.3	1.87	12	<10	130	0.5	6	0.97	<0.5	15	60	358	4.53
E444820		0.06	0.327	2.7	1.76	28	10	60	<0.5	2	0.84	2.1	11	29	2510	4.43
E444821		6.29	0.172	3.2	3.18	20	<10	60	1.0	61	0.58	0.7	27	92	2810	7.56
E444822		6.96	0.068	2.1	2.21	34	<10	130	0.5	17	0.65	0.7	15	51	1930	5.02
E444823		6.26	0.969	2.2	2.47	522	<10	110	0.5	852	0.61	0.8	15	58	1355	5.62
E444824		6.60	0.059	0.2	1.84	6	<10	150	<0.5	5	0.66	<0.5	9	64	253	3.98
E444825		4.64	0.088	0.2	1.85	10	<10	70	0.5	2	0.80	<0.5	16	31	465	4.93
E444826		5.21	0.016	<0.2	1.01	18	<10	90	<0.5	<2	0.79	<0.5	8	39	237	2.67
E444827		5.14	0.027	0.3	0.99	316	<10	190	<0.5	4	1.03	<0.5	9	56	240	2.37
E444828		5.22	0.009	0.3	0.61	66	<10	30	0.6	3	1.81	0.5	9	8	412	2.78
E444829		6.56	0.042	0.6	1.38	36	<10	30	<0.5	14	0.96	0.6	14	32	613	4.06
E444830		0.35	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	2	0.10
E444831		7.02	0.051	0.2	1.87	21	<10	80	<0.5	<2	1.57	<0.5	19	106	286	5.10
E444832		6.99	0.037	<0.2	1.57	9	<10	60	<0.5	<2	1.18	<0.5	16	82	218	4.11
E444833		6.70	0.029	<0.2	1.83	16	<10	90	<0.5	3	1.06	<0.5	15	84	164	3.97
E444834		7.06	0.029	0.3	1.94	12	<10	100	<0.5	5	1.35	<0.5	19	76	294	4.76
E444835		6.95	0.047	0.4	1.54	109	<10	70	0.5	2	1.01	<0.5	20	74	532	5.12
E444836		7.08	0.031	<0.2	1.24	86	<10	150	0.6	4	1.27	<0.5	17	46	223	4.13
E444837		6.77	0.020	<0.2	2.03	28	<10	280	0.7	4	2.12	<0.5	20	81	164	5.63
I027475		5.73	0.271	0.2	1.16	6	<10	60	<0.5	<2	0.63	<0.5	6	5	104	3.13
I027476		6.20	0.048	<0.2	0.83	25	<10	40	<0.5	13	0.40	<0.5	4	8	69	2.01
I027477		2.76	0.010	<0.2	0.99	46	<10	30	<0.5	14	0.67	<0.5	2	8	41	1.59

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
E444801		<10	<1	0.18	10	1.41	368	2	0.01	15	830	5	1.03	3	11	88
E444802		<10	1	0.23	10	1.08	291	1	0.01	15	540	7	1.10	3	14	86
E444803		<10	<1	0.18	30	1.24	301	5	0.01	18	540	8	1.33	8	15	83
E444804		<10	<1	0.09	20	0.79	231	2	<0.01	16	700	6	1.31	2	12	62
E444805		<10	<1	0.13	20	0.83	266	<1	<0.01	13	750	4	1.51	<2	14	44
E444806		<10	<1	0.16	10	1.92	429	1	0.01	22	1150	6	1.75	2	10	154
E444807		<10	1	0.39	10	3.04	703	3	0.01	308	1560	23	1.89	9	16	253
E444808		10	<1	1.86	10	3.20	290	5	0.04	124	830	6	1.31	<2	17	72
E444809		<10	<1	0.35	10	1.44	274	2	0.04	21	1100	19	2.00	3	13	83
E444810		<10	<1	0.01	<10	0.88	145	<1	0.01	<1	70	<2	0.01	<2	<1	80
E444811		<10	<1	0.20	10	1.18	313	<1	0.04	13	1330	5	1.71	3	13	107
E444812		<10	<1	0.12	60	0.77	257	1	<0.01	8	650	28	1.78	41	6	63
E444813		10	<1	0.56	40	1.48	236	1	0.01	18	360	7	1.32	7	12	73
E444814		<10	1	0.45	50	1.33	281	1	0.03	19	410	18	0.94	6	11	69
E444815		10	<1	1.09	20	1.58	277	1	0.05	25	380	4	0.57	<2	14	35
E444816		10	<1	1.27	20	1.59	238	1	0.06	24	520	5	0.65	<2	13	27
E444817		10	<1	0.44	20	1.48	330	3	0.01	31	280	13	0.84	45	15	89
E444818		10	<1	0.52	20	0.96	196	3	0.02	22	230	6	0.50	2	8	30
E444819		10	<1	1.13	40	1.53	260	1	0.07	21	950	7	0.80	<2	11	29
E444820		<10	<1	0.30	<10	0.57	756	252	0.06	20	720	76	2.18	3	2	57
E444821		20	1	1.18	20	2.22	461	2	0.01	34	630	17	2.18	3	17	38
E444822		20	<1	1.33	30	1.90	352	1	0.04	22	570	9	0.96	<2	14	20
E444823		20	<1	1.26	30	2.08	410	2	0.03	21	610	42	1.01	7	14	16
E444824		10	<1	1.17	50	1.49	182	1	0.07	18	500	3	0.59	<2	10	19
E444825		10	<1	0.61	50	1.60	190	2	0.05	21	480	5	1.50	<2	11	23
E444826		10	<1	0.39	70	0.81	138	3	0.05	12	320	5	0.75	2	5	24
E444827		<10	<1	0.52	20	0.82	201	1	0.08	18	210	10	0.40	2	5	42
E444828		<10	<1	0.15	20	0.65	198	2	0.03	5	850	18	1.15	2	3	71
E444829		10	<1	0.43	20	1.36	278	2	0.05	12	320	18	1.25	2	10	28
E444830		<10	<1	<0.01	<10	1.34	118	<1	<0.01	<1	70	<2	<0.01	<2	<1	88
E444831		10	<1	0.89	20	1.84	496	1	0.08	35	550	6	0.93	2	14	36
E444832		10	<1	0.68	20	1.49	278	2	0.10	36	610	2	0.86	<2	9	23
E444833		10	<1	1.02	30	1.72	276	2	0.09	26	430	2	0.58	<2	11	26
E444834		10	<1	0.86	10	1.79	347	1	0.12	34	670	2	0.92	4	13	34
E444835		10	<1	0.84	90	1.56	280	7	0.07	28	750	3	1.49	2	11	35
E444836		10	<1	0.66	50	1.20	321	1	0.06	22	630	4	0.81	<2	12	46
E444837		10	<1	1.17	20	2.20	437	1	0.03	33	530	7	0.71	3	16	75
I027475		10	<1	0.34	10	0.93	134	<1	0.05	1	520	<2	0.74	<2	11	12
I027476		10	<1	0.24	20	0.67	97	1	0.03	2	270	<2	0.47	<2	6	14
I027477		<10	<1	0.31	20	0.78	97	7	0.02	2	150	2	0.21	3	4	23

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
E444801		<20	0.01	<10	<10	48	<10	28
E444802		<20	0.01	<10	<10	51	<10	34
E444803		<20	<0.01	<10	<10	57	<10	46
E444804		<20	<0.01	<10	<10	45	<10	36
E444805		<20	0.01	<10	<10	63	<10	32
E444806		<20	0.01	<10	<10	56	<10	30
E444807		<20	0.02	<10	<10	97	<10	190
E444808		<20	0.14	<10	<10	130	<10	53
E444809		<20	0.02	<10	<10	82	10	80
E444810		<20	<0.01	<10	<10	<1	<10	<2
E444811		<20	0.02	<10	<10	87	<10	34
E444812		20	<0.01	<10	<10	26	<10	72
E444813		<20	0.06	<10	<10	61	10	59
E444814		<20	0.07	<10	<10	64	<10	49
E444815		<20	0.19	<10	<10	98	<10	41
E444816		<20	0.21	<10	<10	102	1070	33
E444817		<20	0.05	<10	<10	71	10	50
E444818		<20	0.06	<10	<10	57	<10	28
E444819		20	0.22	<10	<10	111	10	41
E444820		<20	0.05	<10	<10	32	<10	437
E444821		<20	0.15	<10	<10	159	10	109
E444822		<20	0.20	<10	<10	105	10	87
E444823		<20	0.17	<10	<10	106	40	96
E444824		20	0.20	<10	<10	71	<10	22
E444825		20	0.09	<10	<10	115	10	25
E444826		20	0.06	<10	<10	40	<10	18
E444827		<20	0.09	<10	<10	39	<10	38
E444828		<20	<0.01	<10	<10	27	<10	59
E444829		<20	0.06	<10	<10	64	10	72
E444830		<20	<0.01	<10	<10	<1	<10	<2
E444831		<20	0.20	<10	<10	111	10	66
E444832		<20	0.20	<10	<10	98	<10	34
E444833		<20	0.20	<10	<10	98	<10	29
E444834		<20	0.27	<10	<10	121	20	33
E444835		20	0.18	<10	<10	97	70	34
E444836		<20	0.14	<10	<10	80	10	35
E444837		<20	0.18	<10	<10	118	<10	45
I027475		<20	0.06	<10	<10	33	<10	18
I027476		<20	0.02	<10	<10	22	<10	11
I027477		<20	0.02	<10	<10	21	<10	11

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I027478		3.93	0.020	0.2	0.99	17	<10	20	<0.5	5	0.58	<0.5	6	17	126	2.37
I027479		4.81	0.053	0.7	0.66	14	<10	40	0.5	14	0.28	<0.5	9	28	405	2.82
I027480		0.06	0.259	1.2	1.49	7	10	120	<0.5	<2	0.89	<0.5	11	28	3220	3.07
I027481		3.78	0.028	0.6	0.64	5	<10	30	<0.5	5	0.25	<0.5	10	30	291	2.73
I027482		5.22	0.023	0.2	1.63	8	<10	20	0.5	7	0.93	<0.5	14	18	222	4.53
I027483		5.66	0.179	0.2	1.67	31	<10	30	<0.5	4	0.76	<0.5	11	17	221	3.95
I027484		6.10	0.049	0.2	1.36	32	<10	20	<0.5	9	0.42	<0.5	11	20	170	3.49
I027485		6.06	0.352	0.2	2.39	13	<10	40	0.5	4	0.75	<0.5	9	18	123	3.91
I027486		3.41	1.985	0.4	2.39	43	<10	30	0.8	7	0.93	<0.5	9	17	198	3.52
I027487		5.46	0.106	<0.2	0.89	903	<10	60	1.1	4	0.18	<0.5	22	35	212	6.11
I027488		8.03	0.037	<0.2	0.59	125	<10	20	0.9	2	0.10	<0.5	28	52	168	5.36
I027489		8.32	0.010	<0.2	1.80	45	<10	170	0.6	2	0.32	<0.5	17	80	89	4.14
I027490		0.29	<0.005	<0.2	0.04	<2	10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.12
I027491		9.41	<0.005	<0.2	1.63	34	<10	200	<0.5	4	0.13	<0.5	11	30	84	4.40
I027492		8.42	<0.005	<0.2	1.47	25	<10	90	<0.5	<2	0.17	<0.5	7	63	51	3.01
I027493		7.89	0.024	<0.2	1.55	357	<10	120	0.6	<2	0.13	<0.5	19	4	76	3.37
I027494		8.84	0.212	0.2	1.08	24	<10	40	0.5	4	0.13	<0.5	8	7	176	4.93
I027495		7.68	0.054	<0.2	0.56	14	<10	40	<0.5	<2	0.07	<0.5	8	6	97	1.92
I027496		7.50	0.128	<0.2	0.88	15	<10	30	0.5	3	0.17	<0.5	7	14	151	3.14
I027497		7.58	0.045	<0.2	0.71	11	<10	40	0.5	<2	0.11	<0.5	6	16	82	2.60
I027498		7.49	0.017	<0.2	0.73	14	<10	30	0.6	<2	0.22	<0.5	9	13	60	2.74
I027499		7.13	0.038	<0.2	1.30	9	<10	50	0.6	<2	0.30	<0.5	7	16	52	2.86
I027500		0.06	0.254	1.2	1.50	6	10	120	<0.5	<2	0.89	<0.5	11	28	3210	3.06
I027501		6.67	0.009	<0.2	1.26	13	<10	50	0.7	<2	0.22	<0.5	8	8	39	2.03
I027502		9.13	0.040	<0.2	1.18	15	<10	40	0.6	<2	0.37	<0.5	8	31	67	2.43
I027503		8.06	<0.005	<0.2	0.88	24	<10	80	0.5	<2	0.10	<0.5	6	7	92	1.87
I027504		8.18	0.102	0.2	0.57	19	<10	70	0.6	5	0.08	<0.5	9	8	170	3.64
I027505		8.70	0.044	<0.2	1.06	15	<10	70	0.8	4	0.15	<0.5	9	28	232	5.06
I027506		9.10	0.023	<0.2	0.44	20	<10	40	<0.5	4	0.04	<0.5	8	7	96	1.85
I027507		7.63	0.016	<0.2	0.51	22	<10	50	0.5	2	0.09	<0.5	7	7	82	1.98
I027508		8.16	0.075	<0.2	0.41	140	<10	80	0.5	12	0.05	<0.5	12	7	164	2.58
I027509		6.58	0.021	0.3	0.45	58	<10	120	0.5	12	0.16	<0.5	10	19	220	5.66
I027510		0.22	<0.005	<0.2	0.04	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	7	0.14
I027511		5.86	0.013	<0.2	0.31	313	<10	80	<0.5	5	0.03	<0.5	7	9	156	2.83
I027512		4.42	0.071	0.2	0.98	56	<10	100	0.9	4	0.05	<0.5	11	58	226	4.44
I027513		8.49	0.177	0.4	1.38	412	<10	120	1.2	14	0.04	<0.5	17	83	333	7.09
I027514		7.99	0.024	0.3	0.91	111	<10	150	1.1	10	0.05	<0.5	12	25	314	4.92
I027515		9.19	0.042	0.2	0.94	190	<10	90	1.2	4	0.06	<0.5	14	31	372	4.48
I027516		8.14	0.061	<0.2	1.04	91	<10	60	1.1	7	0.07	<0.5	22	79	374	3.57
I027517		8.19	0.016	<0.2	0.62	77	<10	400	0.8	4	0.03	<0.5	11	16	208	2.50

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I027478		10	<1	0.20	10	0.84	99	2	0.03	6	270	<2	0.73	<2	7	19
I027479		<10	<1	0.11	10	0.55	78	2	0.03	11	360	4	1.33	<2	4	16
I027480		<10	<1	0.19	10	0.74	458	259	0.08	23	660	9	0.46	2	5	44
I027481		<10	<1	0.10	10	0.54	92	1	0.03	11	380	2	1.19	2	5	15
I027482		10	<1	0.36	10	1.44	212	1	0.06	8	410	3	1.47	2	13	23
I027483		10	<1	0.69	10	1.39	163	1	0.07	6	350	3	1.15	4	12	19
I027484		10	<1	0.34	10	1.07	109	3	0.06	8	350	2	1.24	5	9	12
I027485		10	<1	1.00	<10	1.65	136	1	0.14	5	390	<2	0.86	3	14	35
I027486		10	1	0.70	10	1.62	125	<1	0.14	5	350	2	0.94	3	12	35
I027487		<10	<1	0.15	10	0.23	498	1	0.01	27	430	6	0.06	9	17	20
I027488		<10	<1	0.11	10	0.08	355	<1	0.01	34	360	7	0.08	7	17	24
I027489		10	<1	0.76	20	1.47	358	1	0.05	25	660	7	0.11	2	12	30
I027490		<10	<1	<0.01	<10	0.47	91	<1	0.01	<1	60	<2	0.01	<2	<1	91
I027491		10	<1	1.12	10	1.41	174	2	0.07	11	480	6	0.37	2	11	40
I027492		10	<1	0.78	30	1.05	118	1	0.05	16	310	2	0.15	2	7	33
I027493		10	<1	0.80	20	0.97	339	1	0.03	7	280	3	0.05	2	7	15
I027494		10	<1	0.40	20	0.61	152	1	0.12	4	510	2	0.54	<2	8	39
I027495		<10	1	0.13	20	0.20	92	<1	0.06	3	160	3	0.12	<2	3	17
I027496		10	<1	0.21	20	0.42	109	<1	0.07	4	450	2	0.17	3	7	20
I027497		<10	<1	0.22	30	0.34	101	1	0.03	7	290	7	0.05	<2	5	16
I027498		<10	1	0.19	40	0.30	286	3	0.03	8	470	5	0.02	<2	6	12
I027499		10	<1	0.50	30	0.79	160	1	0.05	7	520	7	0.11	<2	6	18
I027500		10	<1	0.19	10	0.74	450	250	0.08	23	650	8	0.46	3	5	44
I027501		10	<1	0.39	20	0.57	144	2	0.04	7	280	11	0.06	<2	6	12
I027502		10	1	0.27	10	0.62	176	4	0.05	17	390	5	0.03	<2	7	17
I027503		<10	<1	0.22	20	0.20	81	2	0.02	7	170	5	0.07	4	4	16
I027504		<10	<1	0.21	10	0.11	102	1	0.06	6	290	3	0.27	<2	7	25
I027505		10	<1	0.29	30	0.31	166	<1	0.08	10	430	4	0.63	4	10	30
I027506		<10	<1	0.16	20	0.10	145	1	0.04	6	90	3	0.08	2	2	12
I027507		<10	<1	0.15	30	0.17	155	1	0.04	6	200	3	0.07	2	3	11
I027508		<10	<1	0.16	20	0.07	91	<1	0.04	6	200	2	0.13	2	4	14
I027509		<10	<1	0.38	30	0.06	109	1	0.06	7	580	3	0.94	3	8	25
I027510		<10	<1	0.01	<10	0.44	87	1	0.01	<1	80	<2	0.02	<2	<1	91
I027511		<10	<1	0.16	10	0.02	60	1	0.06	6	220	2	0.25	<2	2	14
I027512		10	<1	0.39	20	0.39	135	5	0.05	24	610	2	0.42	3	9	37
I027513		10	<1	0.69	20	0.66	198	1	0.08	27	660	3	0.66	4	15	29
I027514		<10	<1	0.39	10	0.16	120	1	0.05	16	620	2	0.53	5	11	39
I027515		<10	<1	0.39	20	0.23	111	4	0.04	22	700	2	0.40	4	11	39
I027516		<10	<1	0.30	20	0.20	145	3	0.02	51	660	2	0.11	4	9	12
I027517		<10	<1	0.16	20	0.08	90	2	0.01	19	260	4	0.11	12	5	20

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027478		<20	0.02	<10	<10	52	<10	13
I027479		<20	<0.01	<10	<10	49	<10	10
I027480		<20	0.13	<10	<10	61	10	59
I027481		<20	<0.01	<10	<10	44	<10	12
I027482		<20	0.05	<10	<10	100	<10	22
I027483		<20	0.08	<10	<10	84	<10	21
I027484		<20	0.06	<10	<10	72	<10	17
I027485		<20	0.13	<10	<10	104	<10	22
I027486		<20	0.10	<10	<10	90	<10	20
I027487		<20	0.01	<10	<10	78	<10	55
I027488		<20	<0.01	<10	<10	58	<10	56
I027489		<20	0.06	<10	<10	85	<10	33
I027490		<20	<0.01	<10	<10	<1	<10	2
I027491		<20	0.10	<10	<10	84	<10	20
I027492		<20	0.07	<10	<10	42	<10	18
I027493		<20	0.09	<10	<10	34	<10	24
I027494		<20	0.02	<10	<10	50	<10	16
I027495		<20	<0.01	<10	<10	13	<10	10
I027496		<20	0.02	<10	<10	43	<10	14
I027497		<20	0.01	<10	<10	21	<10	17
I027498		20	0.01	<10	<10	30	<10	22
I027499		<20	0.04	<10	<10	45	270	26
I027500		<20	0.13	<10	<10	60	10	59
I027501		<20	0.02	<10	<10	15	<10	27
I027502		<20	0.04	<10	<10	42	<10	32
I027503		<20	0.01	<10	<10	13	<10	30
I027504		<20	0.01	<10	<10	36	<10	28
I027505		20	0.02	<10	<10	59	<10	29
I027506		<20	0.01	<10	<10	7	<10	13
I027507		20	<0.01	<10	<10	14	<10	19
I027508		<20	<0.01	<10	<10	14	<10	18
I027509		20	<0.01	<10	<10	50	<10	21
I027510		<20	<0.01	<10	<10	1	<10	3
I027511		<20	<0.01	<10	<10	16	<10	16
I027512		<20	0.02	<10	<10	81	<10	28
I027513		<20	0.03	<10	<10	96	<10	43
I027514		<20	0.01	<10	<10	67	<10	34
I027515		<20	0.01	<10	<10	66	<10	34
I027516		<20	0.01	<10	<10	74	<10	44
I027517		30	0.01	<10	<10	30	<10	28

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I027518		8.33	0.033	<0.2	0.67	27	<10	40	1.1	2	0.09	0.5	22	9	245	3.17
I027519		9.35	<0.005	<0.2	0.37	26	<10	110	<0.5	2	0.02	<0.5	4	3	93	1.32
I027520		0.06	0.279	0.9	1.56	4	<10	130	<0.5	2	0.91	0.6	12	30	3340	3.16
I027521		8.77	0.049	0.6	0.48	125	<10	740	0.5	53	0.04	<0.5	8	5	221	3.01
I027522		9.59	0.042	1.0	0.59	347	<10	160	0.5	18	0.04	<0.5	8	5	283	5.57
I027523		9.16	0.020	0.2	0.68	501	<10	400	0.8	6	0.03	<0.5	23	6	286	6.32
I027524		5.22	0.134	0.2	0.55	2540	<10	70	1.0	6	0.05	0.7	21	12	268	6.10
I027525		5.29	0.030	<0.2	0.59	853	<10	40	0.8	4	0.06	<0.5	17	4	164	4.99
I027526		3.31	0.045	<0.2	0.52	243	<10	90	0.5	2	0.02	<0.5	13	3	145	3.96
I027527		4.46	0.032	<0.2	0.84	297	<10	250	1.2	5	0.04	<0.5	22	71	370	7.99
I027528		5.08	0.014	0.3	0.66	874	<10	570	2.1	7	0.02	<0.5	15	18	317	5.69
I027529		5.88	0.007	<0.2	0.73	690	<10	570	1.4	2	0.02	<0.5	7	17	308	3.85
I027530		0.28	<0.005	<0.2	0.03	5	<10	30	<0.5	4	>25.0	<0.5	<1	1	3	0.14
I027531		5.68	0.008	<0.2	0.66	531	<10	940	1.4	2	0.02	<0.5	12	23	356	4.78
I027532		5.00	0.111	0.2	0.77	338	<10	590	1.0	3	0.02	<0.5	15	38	283	5.92
I027533		5.11	0.058	0.2	0.89	240	<10	820	1.1	3	0.03	<0.5	6	31	288	4.33
I027534		5.15	0.040	<0.2	0.64	116	<10	690	0.9	2	0.12	<0.5	7	17	238	3.87
I027535		3.25	0.059	<0.2	0.71	135	<10	370	0.9	2	0.02	<0.5	7	26	174	4.73
I027536		5.95	0.013	<0.2	0.64	253	<10	120	<0.5	2	0.02	<0.5	1	3	91	1.55
I027537		5.13	<0.005	<0.2	0.76	45	<10	150	<0.5	<2	0.02	<0.5	3	3	59	0.94
I027538		5.31	0.019	<0.2	0.82	86	<10	570	0.9	2	0.08	<0.5	6	33	96	2.98
I027539		5.96	0.015	<0.2	0.70	95	<10	490	0.7	2	0.05	<0.5	11	18	77	2.39
I027540		0.06	0.301	0.9	1.50	7	<10	120	<0.5	2	0.87	0.5	11	28	3190	3.02
I027541		5.75	0.098	0.2	0.78	930	<10	510	1.3	6	0.10	<0.5	12	28	261	4.35
I027542		2.72	0.007	<0.2	2.04	58	<10	80	0.9	<2	0.24	2.4	15	36	249	2.61
I027543		4.46	0.047	<0.2	0.60	41	<10	80	1.0	2	0.08	<0.5	20	14	128	3.80
I027544		5.77	0.073	<0.2	1.31	33	<10	50	0.9	2	0.49	<0.5	13	31	61	3.15
I027545		6.55	0.036	<0.2	1.30	198	<10	60	1.0	<2	1.31	<0.5	12	38	63	3.22
I027546		7.43	0.019	0.2	1.42	25	<10	90	0.9	<2	1.53	<0.5	11	29	58	3.06
I027547		7.09	0.030	<0.2	1.57	31	<10	100	1.1	5	1.57	<0.5	11	29	62	3.26
I027548		5.79	0.030	<0.2	1.07	21	<10	120	0.7	2	1.48	<0.5	11	23	66	2.89
I027549		5.89	0.009	<0.2	0.92	51	<10	60	0.8	<2	1.62	<0.5	10	22	24	2.54
I027550		0.34	<0.005	<0.2	0.03	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	3	0.10
I027551		6.37	0.007	<0.2	1.12	124	<10	60	0.9	<2	1.23	<0.5	11	26	24	2.75

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027518		<10	<1	0.15	30	0.09	190	1	0.01	17	350	3	0.44	6	5	12
I027519		<10	<1	0.08	10	0.01	41	1	0.01	3	30	3	0.10	5	2	10
I027520		10	<1	0.20	10	0.75	477	262	0.09	25	700	7	0.49	4	5	46
I027521		<10	<1	0.25	20	0.02	66	2	0.02	5	360	4	0.40	17	6	46
I027522		<10	<1	0.49	10	0.03	85	1	0.02	4	400	4	0.89	32	7	44
I027523		<10	<1	0.17	10	0.02	242	2	0.02	20	400	6	0.25	55	7	26
I027524		<10	<1	0.14	30	0.02	397	2	0.01	32	400	271	0.12	65	7	112
I027525		<10	<1	0.10	10	0.06	372	2	0.01	17	250	6	0.11	6	7	72
I027526		<10	<1	0.07	<10	0.02	288	1	0.01	10	140	9	0.04	8	4	7
I027527		<10	<1	0.10	10	0.07	510	26	0.01	73	540	3	0.12	6	11	31
I027528		<10	<1	0.17	20	0.03	185	57	0.01	28	530	10	0.19	11	6	42
I027529		<10	<1	0.18	20	0.06	70	3	0.01	17	470	5	0.16	6	6	54
I027530		<10	<1	0.01	<10	0.62	88	<1	0.01	1	70	<2	0.02	<2	<1	91
I027531		<10	<1	0.16	20	0.03	172	5	0.01	36	510	4	0.17	7	6	34
I027532		<10	<1	0.21	20	0.15	276	4	0.01	30	840	5	0.31	10	8	44
I027533		<10	<1	0.21	20	0.12	62	6	0.01	13	1510	3	0.27	5	9	46
I027534		<10	<1	0.18	20	0.04	80	5	0.01	14	940	<2	0.21	3	6	41
I027535		<10	<1	0.24	20	0.03	76	2	0.02	13	780	4	0.33	4	6	32
I027536		<10	<1	0.18	30	0.01	31	1	0.01	6	260	6	0.12	6	1	18
I027537		<10	<1	0.15	30	0.02	31	<1	<0.01	14	250	4	0.03	3	1	9
I027538		<10	<1	0.33	20	0.20	74	7	<0.01	19	1130	5	0.20	4	4	38
I027539		<10	<1	0.15	20	0.16	91	6	<0.01	27	640	6	0.13	2	3	36
I027540		10	<1	0.19	10	0.72	454	248	0.09	24	670	10	0.47	4	5	45
I027541		<10	<1	0.23	30	0.13	118	8	0.01	23	1020	5	0.30	7	6	55
I027542		10	<1	0.59	50	0.61	179	1	0.01	44	500	2	0.23	3	6	12
I027543		<10	<1	0.18	30	0.08	263	2	0.02	29	390	4	0.23	3	3	24
I027544		10	<1	0.42	40	0.67	198	1	0.02	28	370	3	0.79	3	4	14
I027545		10	<1	0.44	40	0.74	175	2	0.01	38	410	3	0.75	6	5	33
I027546		10	<1	0.56	40	0.71	188	1	0.02	27	430	2	0.71	2	3	40
I027547		10	<1	0.61	40	0.81	202	1	0.02	28	430	3	0.68	3	4	42
I027548		<10	<1	0.38	30	0.63	194	<1	0.02	26	300	4	0.81	2	3	41
I027549		<10	<1	0.37	30	0.49	236	1	0.01	21	300	3	0.35	3	3	37
I027550		<10	1	0.01	<10	0.47	89	<1	0.01	<1	70	<2	0.01	<2	<1	96
I027551		<10	<1	0.55	30	0.58	200	1	0.01	25	310	2	0.30	3	4	31

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027518		20	<0.01	<10	<10	23	<10	41
I027519		<20	<0.01	<10	<10	3	<10	16
I027520		<20	0.14	<10	<10	64	10	59
I027521		<20	<0.01	<10	<10	25	<10	33
I027522		<20	<0.01	<10	<10	31	<10	36
I027523		<20	<0.01	<10	<10	27	<10	77
I027524		<20	<0.01	<10	<10	25	<10	302
I027525		<20	<0.01	<10	<10	15	<10	102
I027526		<20	<0.01	<10	<10	7	<10	43
I027527		<20	<0.01	<10	<10	63	<10	72
I027528		<20	<0.01	<10	<10	37	<10	65
I027529		<20	<0.01	<10	<10	34	<10	28
I027530		<20	<0.01	<10	<10	<1	<10	2
I027531		<20	<0.01	<10	<10	39	<10	36
I027532		<20	0.01	<10	<10	74	<10	47
I027533		<20	0.01	<10	10	74	<10	18
I027534		<20	<0.01	<10	<10	48	<10	24
I027535		<20	<0.01	<10	<10	37	<10	31
I027536		<20	<0.01	<10	<10	2	<10	8
I027537		<20	<0.01	<10	<10	1	<10	11
I027538		<20	0.02	<10	<10	93	<10	34
I027539		<20	0.01	<10	<10	43	<10	37
I027540		<20	0.13	<10	<10	61	10	56
I027541		<20	<0.01	<10	<10	56	<10	41
I027542		20	0.06	<10	<10	37	<10	22
I027543		<20	<0.01	<10	<10	18	<10	42
I027544		<20	0.04	<10	<10	29	<10	14
I027545		20	0.03	<10	<10	33	<10	14
I027546		20	0.04	<10	<10	26	<10	14
I027547		20	0.04	<10	<10	26	<10	12
I027548		<20	0.02	<10	<10	20	<10	10
I027549		<20	0.02	<10	<10	19	<10	13
I027550		<20	<0.01	<10	<10	<1	<10	2
I027551		<20	0.05	<10	<10	26	<10	13

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17171147

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17171152

Project: Andalusite Peak

P.O. No.: 1005139- - NOFREG- - R1

This report is for 24 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Andalusite Peak

CERTIFICATE OF ANALYSIS WH17171152

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E446453		1.17	1.180	11.2	2.72	2	<10	450	<0.5	<2	1.44	<0.5	35	79	>10000	4.27
E446454		1.18	0.090	21.1	3.16	2	<10	400	<0.5	<2	1.97	<0.5	36	97	>10000	5.04
E446455		2.89	0.459	2.4	1.66	4	<10	20	<0.5	8	0.98	0.6	50	10	1630	6.21
E446456		1.29	0.005	<0.2	0.29	<2	<10	30	<0.5	<2	0.01	<0.5	1	2	42	2.40
E446457		1.27	0.005	0.3	1.21	<2	<10	130	<0.5	3	0.06	<0.5	<1	8	118	7.49
E446458		1.24	<0.005	<0.2	0.10	<2	<10	10	<0.5	<2	0.01	<0.5	<1	7	5	0.27
E446459		0.78	0.006	<0.2	0.28	<2	<10	80	<0.5	2	0.02	<0.5	<1	4	15	3.68
E446460		1.02	<0.005	<0.2	1.15	<2	<10	70	<0.5	<2	0.02	<0.5	6	3	49	3.96
E446461		1.26	<0.005	<0.2	0.36	<2	<10	60	<0.5	<2	0.01	<0.5	<1	4	35	5.63
E446462		1.37	<0.005	<0.2	0.48	<2	<10	10	<0.5	<2	0.08	<0.5	2	19	29	1.29
E446463		0.94	0.005	<0.2	0.41	<2	<10	70	<0.5	<2	<0.01	<0.5	<1	3	107	6.70
E446464		1.39	<0.005	<0.2	0.61	15	<10	70	<0.5	<2	0.11	<0.5	11	11	71	4.25
E446465		1.41	<0.005	0.2	0.03	<2	<10	10	<0.5	<2	<0.01	<0.5	2	11	67	4.60
E446466		1.42	<0.005	<0.2	0.12	2	<10	40	<0.5	<2	0.01	<0.5	<1	11	7	0.95
E446467		1.43	<0.005	<0.2	0.21	<2	<10	100	<0.5	<2	<0.01	<0.5	<1	5	5	4.20
I044401		0.94	0.006	0.4	3.06	29	<10	70	<0.5	<2	2.07	<0.5	26	19	108	7.71
I044402		0.78	0.009	0.9	3.79	<2	<10	120	<0.5	<2	1.30	<0.5	22	4	1110	5.60
I044403		1.80	1.840	17.3	1.88	4	<10	20	<0.5	3	0.32	1.5	25	7	>10000	7.59
I044404		0.61	0.010	0.3	2.49	<2	<10	860	<0.5	<2	0.66	<0.5	28	20	389	6.44
I044405		1.13	0.011	0.3	0.50	<2	<10	70	<0.5	3	0.01	<0.5	4	1	124	6.52
I044406		0.66	0.005	<0.2	4.06	<2	<10	120	<0.5	<2	0.12	<0.5	8	19	96	7.30
I044407		0.97	<0.005	<0.2	3.23	<2	<10	40	<0.5	<2	0.15	<0.5	10	7	39	8.43
I044408		1.50	<0.005	0.4	4.48	2	<10	40	<0.5	10	1.76	<0.5	28	6	218	6.63
I044409		1.37	<0.005	<0.2	0.42	<2	<10	30	<0.5	<2	0.06	<0.5	3	12	12	2.37

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Andalusite Peak

CERTIFICATE OF ANALYSIS WH17171152

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
E446453		10	<1	1.16	<10	2.50	938	<1	0.09	62	1750	30	0.25	2	6	173
E446454		10	<1	0.73	10	2.79	1270	1	0.06	59	1640	9	0.53	<2	9	305
E446455		<10	<1	0.41	<10	0.47	526	71	0.07	11	810	784	4.35	<2	1	21
E446456		<10	<1	0.26	10	0.03	28	1	0.04	1	250	7	1.73	<2	1	9
E446457		<10	1	0.76	<10	0.71	170	<1	0.22	3	1280	8	1.38	<2	2	81
E446458		<10	<1	0.01	<10	<0.01	26	1	0.01	<1	40	3	0.03	<2	<1	11
E446459		<10	<1	0.12	10	0.01	21	8	0.03	<1	100	9	0.12	<2	1	9
E446460		<10	<1	0.50	10	0.61	165	5	0.11	2	390	3	1.74	<2	2	62
E446461		<10	<1	0.21	10	0.01	26	5	0.02	<1	830	5	0.08	<2	1	25
E446462		<10	<1	0.03	<10	0.34	197	<1	0.03	3	120	<2	0.03	<2	1	18
E446463		<10	<1	0.17	10	0.01	7	3	0.07	<1	1250	5	0.24	<2	1	68
E446464		<10	1	0.18	10	0.18	217	4	0.15	3	150	7	3.10	<2	5	45
E446465		<10	1	0.02	<10	<0.01	22	2	0.01	1	90	<2	4.65	<2	1	1
E446466		<10	<1	0.05	10	<0.01	27	1	0.01	1	140	3	0.08	<2	1	46
E446467		<10	<1	0.52	10	<0.01	22	33	0.04	<1	850	<2	0.97	<2	1	40
I044401		10	1	0.55	<10	3.25	874	1	0.04	26	1800	29	4.32	<2	6	46
I044402		10	<1	0.69	<10	2.12	1270	1	0.24	5	770	5	0.11	<2	4	90
I044403		10	<1	0.48	<10	0.70	702	50	0.02	6	760	23	2.74	2	2	7
I044404		10	<1	1.91	<10	2.20	977	1	0.08	17	1570	<2	0.03	<2	5	33
I044405		<10	<1	0.42	10	0.17	85	2	0.12	1	340	8	2.75	<2	1	43
I044406		10	<1	0.81	<10	1.98	440	<1	0.12	9	370	7	0.51	<2	15	62
I044407		10	<1	0.07	10	1.19	1380	2	0.09	12	1270	4	0.42	<2	6	85
I044408		10	1	1.45	<10	1.88	765	1	0.50	9	900	5	4.24	<2	11	202
I044409		<10	<1	0.10	<10	0.27	142	1	0.02	3	750	<2	1.00	<2	<1	13

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Andalusite Peak

CERTIFICATE OF ANALYSIS WH17171152

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
E446453		<20	0.22	<10	<10	147	<10	96	1.135
E446454		<20	0.18	<10	<10	146	<10	109	2.72
E446455		<20	0.06	<10	<10	56	<10	71	
E446456		<20	0.01	<10	<10	1	<10	2	
E446457		<20	0.06	<10	<10	56	<10	18	
E446458		<20	<0.01	<10	<10	2	<10	8	
E446459		<20	<0.01	<10	<10	12	<10	2	
E446460		<20	0.03	<10	<10	38	<10	17	
E446461		<20	0.01	<10	<10	15	<10	3	
E446462		<20	0.03	<10	<10	29	<10	20	
E446463		<20	<0.01	<10	<10	14	<10	2	
E446464		<20	0.08	<10	<10	70	<10	38	
E446465		<20	<0.01	<10	<10	1	<10	<2	
E446466		<20	0.01	<10	<10	24	<10	<2	
E446467		<20	<0.01	<10	<10	6	<10	<2	
I044401		<20	0.09	<10	<10	116	<10	113	
I044402		<20	0.14	<10	<10	118	<10	118	
I044403		<20	0.06	<10	<10	72	<10	168	2.25
I044404		<20	0.33	<10	<10	230	<10	121	
I044405		<20	0.01	<10	<10	14	<10	12	
I044406		<20	0.12	<10	<10	232	<10	47	
I044407		<20	0.01	<10	<10	219	<10	62	
I044408		<20	0.22	<10	<10	214	50	93	
I044409		<20	<0.01	<10	<10	10	<10	9	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Andalusite Peak

CERTIFICATE OF ANALYSIS WH17171152

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:	CRU- 31	CRU- QC	LOG- 21	PUL- 35
	PUL- QC	SPL- 21	WEI- 21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au- AA23	Cu- OG46	ME- ICP41	ME- OG46

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17173209

Project: Freegold Mountain

P.O. No.: 1005139 - - NOFREG- - R1

This report is for 163 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E444838		7.28	0.030	0.5	0.88	48	<10	230	0.9	124	5.25	<0.5	15	19	610	5.19
E444839		6.61	0.008	<0.2	1.96	41	<10	390	0.5	3	0.99	<0.5	10	66	73	3.66
E444840		0.06	0.293	1.1	1.54	5	<10	120	<0.5	3	0.92	<0.5	10	29	3270	3.15
E444841		5.96	0.026	<0.2	1.85	15	<10	150	<0.5	2	0.92	<0.5	15	47	212	4.31
E444842		6.56	0.019	<0.2	2.27	16	<10	150	<0.5	4	1.00	<0.5	16	31	240	5.51
E444843		6.32	0.019	<0.2	2.10	19	<10	120	<0.5	<2	0.69	<0.5	15	28	131	4.75
E444844		7.10	0.020	<0.2	2.16	7	<10	90	<0.5	2	0.94	0.5	12	29	200	4.86
E444845		5.03	0.015	<0.2	1.96	10	<10	70	<0.5	3	1.06	<0.5	13	26	145	4.47
E444846		4.26	0.023	<0.2	2.05	22	<10	120	<0.5	<2	1.06	<0.5	13	25	161	4.99
E444847		4.24	0.013	<0.2	0.34	21	<10	70	<0.5	2	0.86	<0.5	3	7	74	1.19
E444848		6.54	0.014	<0.2	0.34	17	<10	100	<0.5	<2	0.83	<0.5	2	5	62	1.12
E444849		6.29	0.021	<0.2	0.36	9	<10	90	<0.5	5	0.73	<0.5	2	5	138	1.08
E444850		0.39	0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.09
E444851		6.19	0.031	0.2	0.42	14	<10	120	<0.5	4	0.68	<0.5	4	5	142	1.45
E444852		5.85	0.019	0.2	0.45	14	<10	250	0.6	<2	1.15	<0.5	5	7	219	1.80
E444853		6.41	0.026	<0.2	0.48	14	<10	90	0.5	2	1.42	<0.5	7	5	139	2.11
E444854		6.30	0.019	<0.2	0.40	15	<10	150	0.5	2	1.78	<0.5	5	5	122	2.40
E444855		6.35	0.021	<0.2	0.79	15	<10	70	0.6	3	0.36	<0.5	3	4	70	1.69
E444856		6.52	0.027	<0.2	0.54	6	<10	50	0.5	2	0.61	<0.5	4	4	98	1.72
E444857		5.93	0.017	<0.2	0.40	13	<10	70	0.5	3	0.62	<0.5	4	3	105	1.83
E444858		5.59	0.011	<0.2	0.81	69	<10	20	0.7	<2	0.54	<0.5	11	8	208	2.19
E444859		5.09	0.010	<0.2	0.75	23	<10	100	0.6	4	0.64	<0.5	14	8	236	2.46
E444860		0.06	0.275	1.0	1.58	7	<10	120	<0.5	2	0.95	0.5	11	29	3270	3.19
E444861		4.64	0.005	<0.2	2.83	29	<10	200	1.2	2	0.91	<0.5	18	61	136	4.81
E444862		4.25	0.008	<0.2	2.46	32	<10	170	0.8	<2	1.28	<0.5	11	59	32	4.00
E444863		5.42	0.009	<0.2	0.40	17	<10	90	<0.5	2	1.52	<0.5	5	7	145	1.73
E444864		6.80	0.017	0.3	0.34	14	<10	100	<0.5	25	0.97	<0.5	5	4	172	1.44
E444865		7.20	0.035	<0.2	0.43	10	<10	70	<0.5	2	0.77	<0.5	5	5	198	1.92
E444866		6.83	0.021	0.2	0.50	13	<10	40	0.5	2	1.07	<0.5	10	6	422	3.20
E444867		3.85	0.022	<0.2	0.53	7	<10	20	0.6	2	1.14	<0.5	8	3	279	2.64
E444868		7.16	0.086	0.3	0.46	89	<10	40	0.7	20	1.53	<0.5	7	5	348	2.71
E444869		7.21	0.046	0.3	0.48	87	<10	70	0.8	5	2.41	<0.5	9	4	354	3.12
E444870		0.32	0.007	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	3	0.12
E444871		4.43	0.127	0.6	1.21	10	<10	20	1.1	6	1.70	<0.5	17	11	539	4.93
E444872		6.88	0.048	0.3	1.89	11	<10	90	0.6	4	3.72	<0.5	16	14	321	5.54
E444873		4.99	0.040	0.5	1.76	9	<10	50	0.6	3	1.75	<0.5	14	42	549	5.39
E444874		4.67	0.093	0.5	1.22	8	<10	40	0.9	7	1.46	<0.5	10	15	458	4.30
E444875		3.91	0.028	0.3	0.60	25	<10	40	0.6	<2	1.61	<0.5	11	4	408	2.88
E444876		6.48	0.033	0.5	0.47	82	<10	60	0.5	3	1.95	<0.5	8	3	406	2.29
E444877		6.25	0.025	0.4	0.48	32	<10	80	0.5	3	1.00	<0.5	10	3	363	2.43

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444838		<10	1	0.36	20	2.10	615	<1	0.01	14	410	9	1.08	<2	10	144
E444839		10	<1	1.26	30	1.63	263	1	0.06	24	300	6	0.26	<2	12	33
E444840		10	1	0.20	10	0.76	464	260	0.09	24	670	9	0.47	<2	5	46
E444841		10	1	1.01	20	1.52	303	2	0.08	22	400	5	0.90	<2	11	36
E444842		10	1	1.66	10	2.16	344	<1	0.06	10	580	3	0.73	<2	18	34
E444843		10	1	1.54	10	1.87	296	5	0.07	10	510	<2	0.47	<2	16	23
E444844		10	1	1.42	10	1.93	284	3	0.06	12	500	2	0.63	<2	17	31
E444845		10	1	1.18	10	1.73	320	2	0.07	8	500	7	0.59	<2	14	28
E444846		10	<1	1.28	10	1.83	317	5	0.06	9	530	2	0.71	<2	16	31
E444847		<10	1	0.11	40	0.21	85	<1	0.04	2	150	6	0.40	<2	1	33
E444848		<10	1	0.12	60	0.16	80	13	0.04	1	140	5	0.31	<2	1	35
E444849		<10	1	0.13	50	0.17	74	36	0.03	1	150	9	0.45	3	1	36
E444850		<10	2	0.01	<10	0.59	89	<1	0.01	<1	60	<2	0.01	<2	<1	89
E444851		<10	1	0.12	50	0.28	94	11	0.01	1	170	10	0.80	<2	1	29
E444852		<10	1	0.14	60	0.46	142	12	0.01	7	300	7	0.53	3	2	41
E444853		<10	1	0.11	70	0.55	158	4	0.01	4	290	7	0.70	<2	2	56
E444854		<10	<1	0.10	90	0.59	258	11	0.01	3	260	9	0.71	<2	2	36
E444855		<10	1	0.11	100	0.28	99	9	0.01	5	260	9	0.41	3	1	29
E444856		<10	1	0.10	100	0.33	120	22	0.01	2	270	7	0.53	2	1	31
E444857		<10	<1	0.12	90	0.29	147	1	0.01	2	250	9	0.55	<2	1	18
E444858		<10	1	0.12	40	0.52	134	3	0.01	4	780	7	0.67	2	2	19
E444859		<10	<1	0.16	30	0.57	153	3	0.01	6	730	12	1.07	<2	2	20
E444860		10	1	0.20	10	0.76	465	267	0.09	24	670	9	0.46	<2	5	48
E444861		10	1	1.50	30	1.69	217	2	0.02	43	240	6	0.74	<2	16	52
E444862		10	1	1.28	30	1.72	260	2	0.03	37	350	10	0.11	<2	12	53
E444863		<10	<1	0.14	60	0.29	122	2	0.04	3	210	8	0.65	4	2	61
E444864		<10	1	0.14	70	0.20	89	1	0.04	1	180	22	0.69	<2	1	45
E444865		<10	1	0.14	60	0.33	93	2	0.04	<1	340	6	0.74	<2	3	32
E444866		<10	1	0.13	70	0.64	122	<1	0.03	3	490	5	1.26	<2	7	53
E444867		<10	<1	0.12	20	0.62	148	1	0.03	3	590	3	0.85	2	8	58
E444868		<10	1	0.16	40	0.59	231	3	<0.01	5	880	13	0.71	2	3	28
E444869		<10	1	0.18	30	0.81	348	3	<0.01	5	790	5	1.13	5	3	42
E444870		<10	3	0.01	<10	1.42	142	<1	0.01	<1	80	<2	<0.01	<2	<1	88
E444871		10	1	0.37	10	1.09	243	<1	0.01	8	630	2	1.47	<2	20	65
E444872		10	1	0.88	10	1.77	367	3	0.06	7	490	2	0.85	<2	22	194
E444873		10	<1	0.83	10	1.56	178	<1	0.06	13	610	2	1.56	<2	20	87
E444874		10	1	0.46	10	1.10	133	1	0.03	7	660	3	1.32	2	15	77
E444875		<10	<1	0.13	60	0.71	107	3	0.01	4	380	5	1.29	4	6	69
E444876		<10	<1	0.14	90	0.73	104	3	0.01	3	410	5	0.97	14	3	49
E444877		<10	1	0.15	180	0.48	94	6	0.04	3	540	5	1.08	8	2	51

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444838		<20	0.03	<10	<10	57	<10	43
E444839		<20	0.21	<10	<10	73	<10	39
E444840		<20	0.14	<10	<10	63	10	58
E444841		<20	0.18	<10	<10	84	<10	32
E444842		<20	0.23	<10	<10	148	<10	39
E444843		<20	0.24	<10	<10	143	20	29
E444844		<20	0.21	<10	<10	138	10	60
E444845		<20	0.20	10	<10	136	10	34
E444846		<20	0.22	<10	<10	139	10	32
E444847		20	<0.01	<10	<10	6	<10	11
E444848		20	<0.01	<10	<10	4	<10	8
E444849		20	<0.01	<10	<10	3	<10	10
E444850		<20	<0.01	<10	<10	<1	<10	<2
E444851		20	<0.01	<10	<10	3	<10	18
E444852		20	<0.01	<10	<10	9	<10	20
E444853		30	<0.01	<10	<10	7	<10	10
E444854		30	<0.01	<10	<10	6	<10	12
E444855		30	<0.01	<10	<10	5	<10	15
E444856		30	<0.01	<10	<10	4	<10	8
E444857		30	<0.01	<10	<10	4	<10	12
E444858		<20	<0.01	<10	<10	25	<10	23
E444859		<20	<0.01	<10	<10	23	<10	22
E444860		<20	0.15	<10	<10	64	10	57
E444861		<20	0.21	<10	<10	104	<10	28
E444862		<20	0.18	<10	<10	72	<10	34
E444863		20	<0.01	<10	<10	9	<10	19
E444864		20	<0.01	<10	<10	4	<10	14
E444865		20	<0.01	<10	<10	10	<10	16
E444866		20	<0.01	<10	<10	24	<10	23
E444867		<20	<0.01	<10	<10	23	<10	20
E444868		<20	<0.01	<10	<10	21	<10	25
E444869		<20	<0.01	<10	<10	15	<10	12
E444870		<20	<0.01	<10	<10	<1	<10	6
E444871		<20	0.03	<10	<10	92	<10	35
E444872		<20	0.11	<10	<10	130	<10	38
E444873		<20	0.12	<10	<10	129	<10	25
E444874		<20	0.04	<10	<10	89	<10	20
E444875		20	<0.01	<10	<10	23	<10	14
E444876		30	<0.01	<10	<10	10	<10	25
E444877		40	<0.01	<10	<10	9	<10	20

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444878		3.89	0.024	<0.2	0.77	26	<10	20	1.0	2	1.76	<0.5	5	10	142	2.35
E444879		3.45	0.311	1.6	0.51	163	<10	120	1.0	1800	2.16	0.7	20	9	944	6.42
E444880		0.06	0.732	5.4	1.35	30	<10	50	<0.5	8	0.55	5.3	14	21	5530	6.26
E444881		6.47	0.103	0.5	1.22	22	<10	20	1.0	5	2.37	<0.5	22	18	638	6.99
E444882		6.64	0.044	0.4	3.76	63	<10	60	0.6	4	1.17	<0.5	16	60	368	6.68
E444883		7.11	0.039	0.7	4.68	55	<10	80	1.0	3	2.76	<0.5	22	75	605	7.84
E444884		6.96	0.024	0.5	2.79	197	<10	110	0.7	2	0.86	<0.5	15	51	421	5.37
E444885		6.54	0.043	0.5	1.46	85	<10	60	0.5	3	1.83	<0.5	12	4	455	3.85
E444886		6.64	0.018	0.3	0.85	39	<10	20	0.8	4	5.84	<0.5	11	16	375	5.06
E444887		6.74	0.024	0.6	1.12	209	<10	40	0.7	2	6.9	<0.5	13	28	531	5.97
E444888		6.37	0.021	0.2	0.71	178	<10	30	<0.5	<2	2.36	<0.5	6	5	258	2.32
E444889		6.43	0.036	0.8	1.54	103	<10	50	0.7	4	3.29	<0.5	20	28	855	5.69
E444890		0.40	0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	2	0.12
E444891		7.38	0.054	1.9	2.23	123	<10	60	0.5	4	1.69	<0.5	39	46	1810	9.64
E444892		5.40	0.037	1.0	2.23	349	<10	80	0.7	4	0.94	<0.5	26	41	1095	8.66
E444893		5.00	0.018	0.2	0.53	247	<10	90	<0.5	2	1.29	<0.5	7	14	294	2.40
E444894		6.68	0.015	0.4	0.28	23	<10	100	<0.5	<2	0.74	<0.5	5	5	263	1.45
E444895		6.62	0.011	0.2	0.24	23	<10	110	<0.5	<2	0.85	<0.5	5	5	188	1.42
E444896		6.54	0.015	0.2	0.27	212	<10	130	<0.5	2	0.93	<0.5	4	4	171	1.78
E444897		6.75	0.015	0.2	0.36	117	<10	120	<0.5	<2	0.74	<0.5	3	4	164	1.69
E444898		6.78	0.011	0.2	0.40	23	<10	140	<0.5	<2	0.66	<0.5	3	6	115	1.51
E444899		5.82	0.018	0.2	0.40	14	<10	100	<0.5	2	0.65	<0.5	4	4	144	1.31
E444900		0.06	0.286	0.9	1.51	6	10	120	<0.5	2	0.68	<0.5	10	28	3160	3.10
E444901		4.10	0.031	<0.2	1.10	27	<10	20	<0.5	3	0.70	<0.5	6	6	173	2.43
E444902		4.93	0.010	0.3	1.24	19	<10	50	<0.5	<2	0.63	<0.5	5	6	206	2.46
E444903		5.23	0.026	0.7	2.75	19	<10	80	0.7	4	0.77	<0.5	12	35	669	5.68
E444904		4.05	0.038	0.5	2.02	23	<10	110	<0.5	3	0.51	<0.5	11	12	551	4.83
E444905		3.36	0.016	0.2	1.44	107	<10	50	<0.5	<2	0.86	<0.5	5	15	178	3.28
E444906		5.51	0.060	0.4	0.70	206	<10	50	0.5	2	1.42	<0.5	6	8	316	2.06
E444907		5.10	0.011	0.2	0.56	141	<10	50	0.6	3	1.39	<0.5	5	8	196	1.98
E444908		5.83	0.017	0.2	0.52	264	<10	50	0.6	<2	1.61	<0.5	4	7	171	1.89
E444909		5.76	0.009	<0.2	0.91	54	<10	50	0.5	3	1.33	<0.5	6	10	121	2.65
E444910		0.38	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.10
E444911		7.13	0.055	1.0	3.02	4	<10	70	<0.5	6	0.49	<0.5	27	61	942	8.53
E444912		6.45	0.054	0.6	1.15	57	<10	70	<0.5	<2	0.34	<0.5	14	29	596	4.21
E444913		6.52	0.031	0.5	1.03	2	<10	100	<0.5	<2	0.40	<0.5	11	12	386	3.23
E444914		5.55	0.039	0.5	1.07	5	<10	70	0.5	2	0.90	<0.5	10	11	408	3.21
E444915		4.73	0.023	0.4	1.49	7	<10	70	<0.5	4	0.68	<0.5	12	49	348	3.81
E444916		7.23	0.018	0.3	2.23	6	<10	70	<0.5	2	0.67	<0.5	12	36	286	5.29
E444917		5.08	0.052	0.4	2.11	415	<10	70	<0.5	3	0.72	<0.5	18	7	415	5.45

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444878		<10	1	0.20	20	0.79	135	1	0.01	5	600	6	0.39	2	10	84
E444879		<10	<1	0.15	10	1.12	255	<1	0.01	18	760	173	2.23	2	16	77
E444880		<10	1	0.30	<10	0.40	741	122	0.04	18	530	115	4.30	<2	2	41
E444881		10	1	0.45	10	1.72	240	1	0.02	26	670	<2	2.05	<2	21	82
E444882		20	1	2.59	10	3.30	248	<1	0.16	38	430	3	0.96	<2	23	59
E444883		20	1	2.79	10	3.85	349	<1	0.24	57	430	4	1.47	<2	27	148
E444884		10	1	1.75	10	2.40	217	1	0.08	24	460	2	1.01	<2	18	54
E444885		10	<1	0.59	10	1.11	178	2	0.05	7	240	4	1.25	2	7	68
E444886		<10	1	0.15	20	1.37	414	2	0.01	8	720	3	1.32	<2	13	236
E444887		10	1	0.42	20	1.40	333	6	0.03	10	590	2	2.46	6	12	210
E444888		<10	1	0.18	20	0.62	133	8	0.04	3	290	2	0.75	2	5	72
E444889		10	<1	0.69	20	1.29	218	1	0.03	16	760	2	2.37	2	12	90
E444890		<10	2	0.01	<10	1.53	119	<1	0.01	<1	70	<2	0.01	<2	<1	89
E444891		10	1	1.31	20	2.18	306	<1	0.07	28	1220	3	3.93	<2	17	66
E444892		10	1	1.24	20	2.08	262	1	0.05	17	590	3	2.85	4	15	49
E444893		<10	<1	0.28	40	0.45	114	<1	0.04	1	200	5	0.95	4	3	46
E444894		<10	<1	0.14	50	0.13	89	<1	0.05	1	160	6	0.62	<2	1	34
E444895		<10	<1	0.14	60	0.14	79	<1	0.05	1	170	5	0.65	<2	1	35
E444896		<10	1	0.14	60	0.16	105	<1	0.05	<1	160	5	0.81	2	1	40
E444897		<10	<1	0.13	70	0.15	89	1	0.05	1	170	5	0.73	<2	1	32
E444898		<10	<1	0.13	80	0.16	91	<1	0.05	1	190	5	0.61	<2	1	30
E444899		<10	1	0.13	70	0.18	76	<1	0.05	1	190	5	0.51	<2	1	26
E444900		10	1	0.20	10	0.73	444	245	0.09	23	850	10	0.48	<2	5	45
E444901		10	1	0.27	20	0.87	138	1	0.06	3	280	3	0.52	<2	4	23
E444902		10	1	0.56	30	0.97	127	2	0.07	3	280	2	0.41	<2	5	29
E444903		10	1	1.64	10	2.45	196	1	0.08	18	530	3	0.85	<2	16	44
E444904		10	<1	1.36	10	1.89	187	1	0.06	5	680	3	1.05	<2	11	28
E444905		10	<1	0.82	10	1.16	161	<1	0.07	2	580	<2	0.43	2	9	34
E444906		<10	1	0.17	30	0.52	117	3	0.03	3	620	5	0.59	<2	2	79
E444907		<10	1	0.17	30	0.50	110	3	0.03	3	630	6	0.58	<2	2	96
E444908		<10	<1	0.17	30	0.59	121	5	0.03	3	610	7	0.46	<2	2	91
E444909		10	1	0.41	10	0.95	133	<1	0.06	3	430	4	0.44	<2	7	108
E444910		<10	1	0.02	<10	1.04	122	<1	0.01	<1	80	<2	0.01	<2	<1	92
E444911		20	1	2.13	10	2.83	229	1	0.06	22	1330	3	2.27	<2	20	22
E444912		10	1	0.49	100	0.95	142	1	0.06	11	460	5	1.57	2	7	19
E444913		10	1	0.43	90	0.76	115	2	0.07	6	520	5	1.04	<2	4	23
E444914		10	<1	0.33	40	0.75	133	6	0.05	6	930	6	0.96	<2	5	34
E444915		10	<1	0.89	50	1.25	154	1	0.09	14	310	5	1.07	<2	10	31
E444916		20	<1	1.35	10	2.06	189	1	0.07	14	870	2	0.91	<2	14	24
E444917		10	1	1.09	10	1.69	158	<1	0.10	4	1270	5	1.39	<2	11	27

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444878		<20	0.01	<10	<10	23	<10	43
E444879		<20	<0.01	<10	<10	64	<10	65
E444880		<20	0.03	<10	<10	25	<10	871
E444881		<20	0.04	<10	<10	85	<10	38
E444882		<20	0.18	10	<10	110	<10	40
E444883		<20	0.17	10	<10	126	<10	49
E444884		<20	0.16	<10	<10	84	<10	35
E444885		<20	0.07	<10	<10	27	<10	19
E444886		<20	<0.01	<10	<10	40	<10	27
E444887		<20	0.04	<10	<10	46	<10	25
E444888		<20	0.01	<10	<10	13	10	17
E444889		<20	0.08	<10	<10	64	<10	28
E444890		<20	<0.01	<10	<10	<1	<10	2
E444891		<20	0.21	<10	<10	118	<10	45
E444892		<20	0.18	<10	<10	96	<10	35
E444893		<20	0.02	<10	<10	15	<10	20
E444894		20	<0.01	<10	<10	3	<10	17
E444895		20	<0.01	<10	<10	3	<10	14
E444896		30	<0.01	<10	<10	3	<10	12
E444897		20	<0.01	<10	<10	5	<10	13
E444898		30	<0.01	<10	<10	5	<10	15
E444899		30	<0.01	<10	<10	5	<10	13
E444900		<20	0.13	<10	<10	61	10	56
E444901		<20	0.04	<10	<10	17	<10	34
E444902		<20	0.08	<10	<10	16	<10	36
E444903		<20	0.18	<10	<10	77	<10	41
E444904		<20	0.18	<10	<10	48	<10	40
E444905		<20	0.14	<10	<10	28	<10	30
E444906		<20	0.01	<10	<10	19	<10	27
E444907		<20	<0.01	<10	<10	16	<10	28
E444908		<20	<0.01	<10	<10	14	<10	23
E444909		<20	0.06	<10	<10	16	<10	18
E444910		<20	<0.01	<10	<10	<1	<10	<2
E444911		<20	0.25	<10	<10	134	<10	40
E444912		20	0.04	<10	<10	42	<10	23
E444913		20	0.06	<10	<10	35	10	19
E444914		<20	0.05	<10	<10	38	10	26
E444915		<20	0.07	<10	<10	57	<10	27
E444916		<20	0.18	<10	<10	85	<10	31
E444917		<20	0.20	<10	<10	79	<10	29

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444918		3.80	0.017	0.3	2.18	3	<10	90	<0.5	<2	0.59	<0.5	11	10	342	4.68
E444919		3.06	0.036	0.8	0.77	2	<10	100	<0.5	3	0.21	<0.5	13	7	548	3.05
E444920		0.06	0.294	0.9	1.50	6	<10	120	<0.5	<2	0.87	<0.5	10	28	3210	3.09
E444921		4.74	0.026	0.7	1.37	2	<10	50	<0.5	2	0.43	<0.5	12	30	478	3.88
E444922		3.48	0.035	0.6	3.00	<2	<10	50	<0.5	3	1.00	<0.5	20	162	601	6.40
E444923		4.30	0.010	0.2	2.32	3	<10	60	<0.5	<2	1.37	<0.5	12	126	209	3.93
E444924		6.01	0.063	0.2	0.62	3	<10	120	<0.5	2	0.64	<0.5	5	6	237	2.19
E444925		4.37	0.241	0.4	0.55	3070	<10	110	<0.5	6	0.54	<0.5	10	5	255	2.52
E444926		5.73	0.077	0.5	1.56	305	<10	60	<0.5	11	0.73	<0.5	6	13	254	3.72
E444927		6.89	0.087	1.0	1.13	83	<10	70	<0.5	3	0.44	<0.5	19	16	784	4.65
E444928		6.66	0.028	0.5	1.22	63	<10	40	<0.5	<2	0.77	<0.5	12	11	428	3.88
E444929		6.80	0.036	0.5	1.41	3	<10	30	<0.5	2	0.81	<0.5	12	13	429	4.12
E444930		0.39	<0.005	<0.2	0.02	<2	10	10	<0.5	<2	>25.0	<0.5	<1	1	2	0.13
E444931		7.00	0.022	0.2	1.28	<2	<10	50	<0.5	2	0.81	<0.5	10	11	274	3.29
E444932		6.79	0.012	0.3	1.36	<2	<10	60	<0.5	2	0.91	<0.5	10	12	312	3.55
E444933		6.72	0.034	0.7	1.58	3	<10	50	<0.5	11	0.79	<0.5	17	13	573	4.64
E444934		6.61	0.013	0.5	1.22	2	<10	40	<0.5	<2	0.82	<0.5	9	10	366	3.17
E444935		6.95	0.014	0.4	2.56	<2	<10	110	<0.5	<2	0.78	<0.5	12	79	318	5.02
E444936		6.44	0.008	0.3	2.23	35	<10	100	<0.5	4	2.25	0.5	6	116	123	4.22
E444937		6.45	0.008	<0.2	1.61	8	<10	170	<0.5	2	0.53	<0.5	5	14	114	3.05
E444938		6.42	0.018	<0.2	1.76	65	<10	180	<0.5	<2	0.60	<0.5	5	30	166	3.42
E444939		6.05	0.008	<0.2	1.30	187	<10	140	<0.5	4	0.83	<0.5	5	10	152	2.93
E444940		0.06	0.290	0.8	1.45	6	10	110	<0.5	<2	0.85	0.5	10	27	3110	2.96
E444941		6.66	0.025	<0.2	0.72	68	<10	130	<0.5	<2	0.49	<0.5	6	7	219	2.37
E444942		6.63	0.084	0.6	2.50	1120	<10	50	0.8	<2	2.98	0.6	21	23	550	6.31
E444943		7.07	0.027	0.4	4.30	90	<10	80	0.8	3	3.49	0.5	20	41	356	8.42
E444944		8.25	0.145	1.0	3.30	82	<10	80	0.5	4	2.95	<0.5	24	42	790	7.05
E444945		5.30	0.051	0.3	0.52	50	<10	100	<0.5	2	1.31	<0.5	7	7	259	2.05
E444946		6.74	0.030	0.4	0.56	75	<10	70	<0.5	<2	3.76	<0.5	5	5	351	2.06
E444947		6.42	0.219	0.4	0.57	84	<10	120	<0.5	<2	0.65	<0.5	5	9	394	2.20
E444948		6.50	0.008	<0.2	0.50	50	<10	130	<0.5	<2	0.67	<0.5	3	5	140	1.79
E444949		6.69	0.012	<0.2	0.52	149	<10	130	<0.5	<2	1.60	<0.5	4	6	166	1.90
E444950		0.37	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	8	0.14
E444951		4.88	0.030	0.3	0.73	94	<10	130	<0.5	<2	0.65	<0.5	7	23	341	2.39
E444952		4.90	0.010	0.2	0.54	23	<10	150	<0.5	<2	0.73	<0.5	4	5	187	1.60
E444953		5.06	0.053	0.6	0.64	21	<10	130	<0.5	3	0.71	<0.5	8	7	516	2.61
E444954		4.88	0.020	0.3	1.62	29	<10	80	<0.5	2	0.70	<0.5	9	9	298	3.80
E444955		4.79	0.288	0.7	1.24	109	<10	60	<0.5	6	1.17	<0.5	9	19	534	3.32
E444956		5.04	0.014	<0.2	0.59	7	<10	150	<0.5	2	0.71	<0.5	5	5	220	1.86
E444957		6.59	0.030	0.3	0.59	2	<10	180	<0.5	<2	0.46	<0.5	6	6	318	1.89

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444918		10	<1	1.07	10	1.54	133	<1	0.13	5	830	<2	0.97	<2	11	32
E444919		10	1	0.28	80	0.46	85	1	0.07	3	450	4	1.24	<2	3	12
E444920		10	1	0.19	10	0.73	443	242	0.09	23	650	7	0.46	<2	5	45
E444921		10	1	0.52	60	1.04	124	1	0.08	12	450	2	1.18	<2	7	20
E444922		10	2	1.80	<10	2.79	304	1	0.19	37	660	3	1.33	<2	21	39
E444923		10	<1	0.91	<10	1.90	294	<1	0.23	33	640	2	0.47	<2	11	45
E444924		<10	<1	0.14	90	0.22	98	<1	0.08	2	290	4	0.77	<2	1	29
E444925		<10	<1	0.12	90	0.24	133	1	0.06	2	300	11	1.10	4	1	22
E444926		10	1	0.46	30	1.23	233	<1	0.06	4	460	13	0.62	<2	7	32
E444927		10	<1	0.32	100	0.78	176	1	0.05	9	970	5	1.93	<2	5	20
E444928		10	<1	0.32	10	0.84	160	<1	0.08	5	1210	3	1.27	2	5	36
E444929		10	<1	0.30	20	0.92	148	<1	0.08	7	1340	3	1.27	<2	5	41
E444930		<10	<1	0.01	<10	1.41	138	<1	<0.01	<1	70	<2	<0.01	<2	<1	70
E444931		10	<1	0.34	20	0.80	148	<1	0.09	5	1260	2	0.75	<2	4	45
E444932		10	<1	0.46	20	0.92	154	1	0.10	5	1410	2	0.86	<2	5	47
E444933		10	<1	0.44	20	1.08	139	<1	0.09	6	1550	6	1.56	<2	7	42
E444934		10	<1	0.28	10	0.82	111	1	0.07	5	1040	3	0.94	<2	5	36
E444935		10	<1	1.46	10	2.15	179	<1	0.10	34	970	4	0.89	<2	12	47
E444936		10	<1	0.72	10	1.91	417	<1	0.04	71	540	25	0.32	<2	9	59
E444937		10	<1	0.97	10	1.19	157	1	0.08	11	400	3	0.24	2	9	31
E444938		10	<1	1.02	20	1.41	173	5	0.06	25	520	2	0.27	<2	10	31
E444939		10	<1	0.64	40	1.01	154	2	0.05	6	490	3	0.39	<2	8	39
E444940		<10	<1	0.19	10	0.71	444	240	0.08	23	620	8	0.44	3	4	42
E444941		<10	<1	0.21	90	0.44	118	1	0.05	2	300	4	0.84	2	2	50
E444942		10	<1	1.22	30	2.26	413	2	0.03	33	730	6	1.88	10	16	144
E444943		20	<1	2.14	<10	3.79	661	1	0.11	47	660	13	1.25	<2	25	128
E444944		10	<1	1.64	<10	2.68	494	1	0.19	40	610	3	1.55	2	20	316
E444945		<10	<1	0.11	80	0.25	120	<1	0.04	4	210	4	0.87	2	1	63
E444946		<10	<1	0.11	70	0.27	153	1	0.03	3	210	7	0.96	2	1	70
E444947		<10	<1	0.15	90	0.26	105	1	0.04	3	270	4	0.87	2	2	33
E444948		<10	<1	0.12	80	0.22	89	1	0.05	2	230	3	0.66	<2	1	34
E444949		<10	<1	0.12	70	0.24	119	<1	0.05	3	200	3	0.74	4	1	64
E444950		<10	<1	0.01	<10	1.34	131	<1	<0.01	<1	80	3	0.03	<2	<1	83
E444951		<10	<1	0.20	70	0.45	103	1	0.05	8	300	5	0.89	<2	3	30
E444952		<10	<1	0.12	80	0.23	85	<1	0.05	2	220	4	0.48	<2	1	36
E444953		<10	<1	0.14	110	0.33	95	<1	0.05	4	320	5	1.15	<2	2	38
E444954		10	<1	0.68	40	1.30	223	1	0.05	4	360	8	0.82	<2	9	33
E444955		10	<1	0.46	20	1.00	172	<1	0.04	5	380	9	0.88	2	9	40
E444956		<10	<1	0.14	60	0.25	100	<1	0.05	2	270	5	0.50	<2	1	34
E444957		<10	<1	0.14	60	0.25	102	<1	0.06	2	280	4	0.49	<2	1	26

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444918		<20	0.22	<10	<10	66	<10	22
E444919		30	0.06	<10	<10	27	<10	14
E444920		<20	0.13	<10	<10	60	10	55
E444921		20	0.10	<10	<10	52	<10	19
E444922		<20	0.23	<10	<10	142	<10	49
E444923		<20	0.19	<10	<10	100	<10	35
E444924		40	0.02	<10	<10	11	<10	10
E444925		20	0.01	<10	<10	11	<10	29
E444926		<20	0.09	<10	<10	34	<10	34
E444927		30	0.08	<10	<10	51	10	31
E444928		<20	0.11	<10	<10	65	<10	23
E444929		<20	0.16	<10	<10	73	<10	21
E444930		<20	<0.01	<10	<10	<1	<10	<2
E444931		<20	0.16	<10	<10	67	<10	19
E444932		<20	0.18	<10	<10	78	<10	19
E444933		<20	0.19	<10	<10	87	<10	21
E444934		<20	0.13	<10	<10	61	<10	17
E444935		<20	0.19	<10	<10	87	<10	31
E444936		<20	0.08	<10	<10	38	<10	68
E444937		<20	0.14	<10	<10	29	<10	24
E444938		<20	0.15	<10	<10	32	<10	28
E444939		<20	0.10	<10	<10	25	<10	21
E444940		<20	0.13	<10	<10	58	10	55
E444941		30	0.02	<10	<10	18	<10	13
E444942		<20	0.10	<10	<10	99	<10	71
E444943		<20	0.23	<10	<10	178	<10	89
E444944		<20	0.23	<10	<10	177	<10	44
E444945		20	<0.01	<10	<10	15	<10	12
E444946		20	<0.01	<10	<10	11	<10	27
E444947		30	0.01	<10	<10	11	<10	14
E444948		20	<0.01	<10	<10	8	<10	8
E444949		20	0.01	<10	<10	7	<10	8
E444950		<20	<0.01	<10	<10	<1	<10	<2
E444951		20	0.02	<10	<10	15	<10	17
E444952		20	0.01	<10	<10	6	<10	8
E444953		30	0.01	<10	<10	12	<10	14
E444954		<20	0.09	<10	<10	16	<10	42
E444955		<20	0.07	<10	<10	23	<10	36
E444956		20	0.01	<10	<10	9	<10	10
E444957		30	0.03	<10	<10	10	<10	12

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444958		6.55	0.037	0.2	1.67	2	<10	200	<0.5	2	0.64	<0.5	11	78	268	3.96
E444959		6.51	0.042	0.2	1.22	<2	<10	140	<0.5	4	0.41	<0.5	9	69	203	2.65
E444960		0.06	0.287	0.9	1.51	6	10	120	<0.5	<2	0.89	0.5	10	28	3220	3.08
E444961		6.47	0.038	0.2	1.00	<2	<10	160	<0.5	2	0.49	<0.5	6	37	259	2.67
E444962		6.66	0.035	<0.2	0.86	<2	<10	160	<0.5	2	0.64	<0.5	6	17	155	2.29
E444963		6.57	0.062	0.3	1.01	5	<10	70	<0.5	4	0.38	<0.5	7	9	181	2.50
E444964		5.98	0.031	0.2	0.95	2	<10	180	<0.5	<2	0.39	<0.5	4	9	184	2.40
E444965		6.74	1.195	0.3	0.59	93	<10	140	<0.5	12	0.53	<0.5	5	5	282	1.89
E444966		6.82	0.051	0.2	0.52	2	<10	160	<0.5	2	0.49	<0.5	4	6	163	1.61
E444967		6.78	0.022	<0.2	0.54	2	<10	160	<0.5	<2	0.39	<0.5	4	6	139	1.65
E444968		6.74	0.056	0.2	1.14	4	<10	140	<0.5	2	0.84	<0.5	6	21	159	2.61
E444969		6.77	0.035	0.2	0.76	<2	<10	180	<0.5	<2	0.42	<0.5	4	10	165	1.95
E444970		0.36	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.09
E444971		6.41	0.015	<0.2	0.58	2	<10	190	<0.5	<2	0.54	<0.5	4	5	119	1.80
E444972		6.69	0.041	0.3	0.69	<2	<10	160	<0.5	2	0.89	<0.5	7	6	263	2.27
E444973		7.34	0.039	0.4	0.88	<2	<10	120	<0.5	3	0.46	<0.5	11	14	399	3.00
E444974		6.12	0.021	0.2	1.10	3	<10	60	<0.5	2	0.63	<0.5	8	8	267	2.86
E444975		6.72	<0.005	<0.2	1.00	2	<10	50	<0.5	2	0.45	<0.5	4	22	67	1.85
E444976		6.38	0.008	<0.2	1.13	13	<10	60	<0.5	<2	0.43	<0.5	3	9	28	1.99
E444977		6.82	0.041	<0.2	0.74	3	<10	50	<0.5	<2	0.42	<0.5	6	9	148	1.96
E444978		6.95	0.111	<0.2	1.59	3	<10	100	<0.5	5	0.75	<0.5	8	13	152	3.28
E444979		7.17	0.025	<0.2	0.98	2	<10	70	<0.5	2	0.55	<0.5	6	8	131	2.31
E444980		0.06	0.683	5.2	1.23	30	<10	50	<0.5	<2	0.53	5.5	14	22	5360	6.02
E444981		7.40	0.132	<0.2	0.93	22	<10	50	<0.5	5	0.48	<0.5	5	15	132	2.45
E444982		6.88	0.122	<0.2	0.84	<2	<10	60	<0.5	7	0.37	<0.5	5	7	140	2.23
E444983		6.80	0.038	<0.2	1.08	7	<10	90	<0.5	<2	0.37	<0.5	5	9	95	2.40
E444984		7.07	0.030	0.2	1.63	17	<10	110	<0.5	<2	0.49	<0.5	9	46	232	3.36
E444985		7.07	0.132	<0.2	1.31	33	<10	90	<0.5	7	1.04	<0.5	6	10	166	2.89
E444986		6.98	0.074	0.2	1.17	2	<10	120	<0.5	<2	0.31	<0.5	5	13	223	2.79
E444987		7.01	0.069	<0.2	1.37	<2	<10	120	<0.5	3	0.54	<0.5	6	7	118	3.10
E444988		6.60	0.009	<0.2	1.20	2	<10	70	<0.5	2	1.03	<0.5	6	16	176	2.99
E444989		7.03	0.019	<0.2	1.29	2	<10	40	<0.5	2	0.62	<0.5	10	11	268	4.01
E444990		0.43	<0.005	<0.2	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	<1	1	2	0.11
E444991		7.31	0.043	0.2	1.39	313	<10	20	<0.5	2	1.80	1.3	12	6	284	3.78
E444992		7.19	0.022	0.2	1.31	7	<10	30	0.5	2	1.28	<0.5	12	9	300	3.59
E444993		6.87	0.029	<0.2	1.41	4	<10	80	<0.5	<2	0.55	<0.5	10	7	224	4.14
E444994		6.58	0.015	<0.2	1.12	4	<10	70	<0.5	3	0.51	<0.5	5	10	111	3.03
E444995		7.27	0.020	<0.2	1.62	<2	<10	120	<0.5	<2	0.80	<0.5	7	16	100	4.34
E444996		6.97	0.038	0.2	0.35	46	<10	50	<0.5	<2	0.05	<0.5	2	6	202	2.00
E444997		7.23	0.032	0.3	0.55	206	<10	40	<0.5	3	0.06	<0.5	4	6	489	4.10

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E444958		10	<1	0.81	30	1.41	183	<1	0.06	13	600	3	0.72	2	9	28
E444959		10	<1	0.57	20	1.01	127	<1	0.07	16	300	3	0.44	<2	5	23
E444960		<10	<1	0.19	10	0.74	464	256	0.08	23	640	9	0.46	3	5	44
E444961		10	<1	0.40	40	0.69	131	1	0.06	6	370	4	0.59	<2	4	25
E444962		<10	<1	0.26	40	0.46	121	<1	0.07	5	330	4	0.58	<2	2	32
E444963		10	<1	0.32	10	0.74	125	<1	0.06	2	130	2	0.46	<2	5	19
E444964		10	<1	0.41	40	0.58	106	<1	0.06	3	260	3	0.43	2	4	23
E444965		<10	<1	0.12	50	0.27	111	1	0.05	2	320	5	0.56	<2	1	23
E444966		<10	<1	0.11	30	0.23	79	<1	0.06	2	240	4	0.43	<2	1	25
E444967		<10	<1	0.10	40	0.24	85	<1	0.06	1	230	3	0.44	<2	1	23
E444968		10	<1	0.24	40	0.63	148	<1	0.08	8	330	5	0.48	<2	4	39
E444969		<10	<1	0.19	40	0.37	116	<1	0.06	4	280	3	0.30	<2	2	28
E444970		<10	<1	<0.01	<10	0.97	138	<1	<0.01	<1	70	<2	<0.01	<2	<1	83
E444971		<10	<1	0.12	40	0.23	97	<1	0.07	2	260	3	0.38	<2	1	29
E444972		<10	<1	0.17	50	0.34	104	1	0.06	2	350	5	0.83	<2	2	32
E444973		10	<1	0.21	40	0.56	103	1	0.06	7	480	2	1.16	<2	4	24
E444974		10	<1	0.28	30	0.76	133	2	0.05	2	340	4	0.87	<2	4	26
E444975		<10	<1	0.42	10	0.80	124	1	0.05	5	140	3	0.38	<2	3	23
E444976		10	<1	0.49	10	0.84	182	1	0.04	2	120	2	0.13	<2	4	19
E444977		<10	<1	0.24	10	0.49	113	1	0.07	2	210	<2	0.53	<2	3	24
E444978		10	<1	0.80	10	1.12	168	<1	0.09	5	690	3	0.58	<2	10	39
E444979		<10	<1	0.41	10	0.72	121	<1	0.08	2	340	3	0.40	<2	4	25
E444980		<10	<1	0.27	<10	0.39	748	119	0.03	16	500	110	4.21	2	2	37
E444981		10	<1	0.37	10	0.67	139	<1	0.07	3	280	2	0.54	2	7	20
E444982		<10	<1	0.29	20	0.59	115	<1	0.07	2	180	5	0.57	<2	5	19
E444983		10	<1	0.59	20	0.79	130	<1	0.08	4	280	3	0.35	<2	6	23
E444984		10	<1	0.96	10	1.29	145	<1	0.08	10	510	3	0.59	3	9	35
E444985		10	<1	0.73	10	1.05	215	3	0.06	5	440	4	0.41	4	9	27
E444986		10	<1	0.68	10	0.90	203	7	0.08	4	230	4	0.45	<2	8	12
E444987		10	<1	0.81	20	1.04	205	<1	0.07	2	350	3	0.47	<2	9	22
E444988		10	<1	0.44	20	0.95	182	1	0.05	4	720	7	0.73	<2	6	39
E444989		10	<1	0.25	20	0.96	202	<1	0.06	3	640	3	1.26	<2	10	26
E444990		<10	<1	<0.01	<10	1.24	132	<1	<0.01	<1	70	<2	<0.01	3	<1	83
E444991		10	<1	0.11	20	0.94	520	<1	0.04	2	600	19	1.48	6	7	38
E444992		10	<1	0.16	20	0.91	283	<1	0.05	3	640	7	1.43	2	8	35
E444993		10	<1	0.44	20	0.88	187	<1	0.08	2	660	<2	0.98	3	11	26
E444994		10	<1	0.39	10	0.70	204	<1	0.08	3	390	<2	0.55	<2	7	23
E444995		10	<1	0.78	10	0.98	272	<1	0.08	4	760	<2	0.51	2	13	38
E444996		<10	<1	0.13	20	0.03	54	4	0.03	4	110	6	0.01	2	1	7
E444997		<10	<1	0.16	30	0.08	59	2	0.04	7	310	7	0.06	3	3	27

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E444958		<20	0.12	<10	<10	51	<10	21
E444959		<20	0.08	<10	<10	22	<10	17
E444960		<20	0.13	<10	<10	60	20	57
E444961		<20	0.07	<10	<10	27	<10	20
E444962		20	0.04	<10	<10	17	<10	13
E444963		<20	0.05	<10	<10	13	<10	20
E444964		<20	0.06	<10	<10	11	<10	12
E444965		20	0.02	<10	<10	10	<10	15
E444966		20	0.03	<10	<10	8	<10	9
E444967		20	0.03	<10	<10	9	<10	7
E444968		20	0.08	<10	<10	29	<10	16
E444969		20	0.07	<10	<10	15	<10	13
E444970		<20	<0.01	<10	<10	<1	<10	<2
E444971		20	0.03	<10	<10	8	<10	7
E444972		20	0.03	<10	<10	21	<10	13
E444973		20	0.06	<10	<10	33	<10	13
E444974		<20	0.06	<10	<10	35	<10	26
E444975		<20	0.05	<10	<10	20	<10	10
E444976		<20	0.07	<10	<10	18	<10	22
E444977		<20	0.04	<10	<10	17	<10	12
E444978		<20	0.17	<10	<10	69	<10	18
E444979		<20	0.08	<10	<10	33	<10	11
E444980		<20	0.02	<10	<10	24	<10	869
E444981		<20	0.06	<10	<10	18	<10	15
E444982		<20	0.05	<10	<10	19	<10	14
E444983		<20	0.10	<10	<10	39	<10	12
E444984		<20	0.15	<10	<10	60	<10	16
E444985		<20	0.12	<10	<10	43	<10	24
E444986		<20	0.13	<10	<10	22	<10	23
E444987		<20	0.13	<10	<10	26	<10	22
E444988		<20	0.09	<10	<10	28	<10	21
E444989		<20	0.06	<10	<10	11	<10	25
E444990		<20	<0.01	<10	<10	<1	<10	<2
E444991		<20	0.01	<10	<10	9	<10	129
E444992		<20	0.02	<10	<10	13	<10	25
E444993		<20	0.12	<10	<10	12	<10	18
E444994		<20	0.10	<10	<10	14	<10	16
E444995		<20	0.19	<10	<10	24	<10	20
E444996		20	<0.01	<10	<10	4	<10	7
E444997		20	0.01	<10	<10	13	<10	15

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E444998		6.59	0.084	0.8	1.10	158	<10	80	0.6	4	0.12	<0.5	3	29	511	4.28
E444999		7.39	0.061	0.6	0.90	91	<10	60	0.5	3	0.08	<0.5	2	19	380	3.27
E445000		0.06	0.302	0.9	1.53	5	10	120	<0.5	2	0.91	0.5	11	28	3130	3.08

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
E444998		10	<1	0.55	30	0.53	68	1	0.06	6	670	13	0.33	<2	10	110
E444999		<10	<1	0.40	30	0.45	53	1	0.05	6	380	6	0.24	<2	7	67
E445000		10	<1	0.20	10	0.75	471	261	0.08	24	640	9	0.46	2	5	45

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
E444998		<20	0.09	<10	<10	70	<10	25
E444999		<20	0.05	<10	<10	42	<10	19
E445000		<20	0.13	<10	<10	61	20	57

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173209

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 25- SEP- 2017
This copy reported on
1- DEC- 2017
Account: NOFREG

CERTIFICATE WH17173215

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 196 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 25- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I027552		7.77	0.103		<0.2	1.61	21	<10	40	1.0	3	1.47	<0.5	8	46	55
I027553		6.68	0.232		<0.2	1.16	29	<10	30	0.9	7	0.65	<0.5	9	37	124
I027554		2.28	0.687		<0.2	0.59	3520	<10	20	0.7	12	0.98	<0.5	10	21	197
I027555		0.50	<0.005		<0.2	0.03	7	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2
I027556		5.84	0.660		<0.2	1.24	26	<10	30	0.6	22	0.44	<0.5	16	79	334
I027557		6.27	1.050		<0.2	1.42	24	<10	50	0.8	307	0.54	<0.5	13	110	284
I027558		3.90	0.053		<0.2	0.49	16	<10	70	0.5	4	0.95	<0.5	6	10	131
I027559		3.55	0.044		<0.2	0.39	56	<10	70	0.5	5	2.31	<0.5	8	6	255
I027560		0.06	0.747		5.0	1.28	30	<10	50	<0.5	3	0.53	5.0	13	20	5270
I027561		4.95	0.238		<0.2	1.34	179	<10	70	0.7	12	0.69	<0.5	13	69	292
I027562		4.45	0.476		<0.2	0.97	609	<10	120	0.9	10	0.90	<0.5	14	56	214
I027563		5.48	0.139		<0.2	1.46	147	<10	80	0.9	17	0.98	<0.5	13	134	192
I027564		6.22	0.135		<0.2	1.79	217	<10	60	0.7	32	1.62	<0.5	17	193	186
I027565		5.78	0.208		<0.2	1.20	68	<10	20	0.8	59	0.44	<0.5	11	89	331
I027566		3.90	0.142		<0.2	0.71	805	<10	30	1.1	34	1.56	<0.5	18	101	169
I027567		4.77	0.078		<0.2	1.28	538	<10	20	0.9	36	0.69	<0.5	25	167	290
I027568		2.43	0.376		1.9	1.24	557	<10	40	0.6	97	0.34	<0.5	36	99	1910
I027569		6.10	0.134		0.2	1.43	66	<10	50	1.4	15	0.54	<0.5	14	88	335
I027570		0.37	<0.005		<0.2	0.05	2	<10	20	<0.5	<2	>25.0	<0.5	<1	2	3
I027571		6.64	0.280		<0.2	1.02	1285	<10	140	1.1	8	0.84	<0.5	17	88	196
I027572		5.87	0.182		0.2	0.57	354	<10	30	0.7	8	1.06	<0.5	20	43	510
I027573		5.81	0.200		0.4	0.76	877	<10	70	0.7	45	0.70	<0.5	16	52	410
I027574		5.22	0.046		<0.2	0.43	171	<10	30	0.8	4	1.26	<0.5	8	17	109
I027575		5.83	0.136		<0.2	0.32	1785	<10	130	0.6	31	1.27	<0.5	13	6	118
I027576		5.61	0.040		<0.2	0.32	69	<10	170	<0.5	3	0.83	<0.5	11	4	109
I027577		3.61	0.186		0.2	0.39	81	<10	120	1.0	3	1.15	<0.5	26	14	249
I027578		6.05	0.017		<0.2	0.39	153	<10	140	0.8	<2	1.10	<0.5	18	17	137
I027579		5.96	0.160		<0.2	0.45	53	<10	30	0.8	16	0.42	<0.5	21	12	228
I027580		0.06	0.289		0.9	1.45	5	<10	120	<0.5	<2	0.87	<0.5	11	27	3110
I027581		4.06	0.184		0.2	0.41	274	<10	50	0.5	5	0.23	<0.5	19	3	466
I027582		7.92	0.063		0.2	0.41	375	<10	50	0.5	19	0.23	<0.5	19	2	452
I027583		5.33	0.111		0.4	0.41	2130	<10	140	0.5	16	0.24	<0.5	24	2	402
I027584		5.97	0.020		<0.2	0.42	348	<10	90	0.6	21	0.39	<0.5	21	3	258
I027585		4.66	0.069		1.1	0.43	1670	<10	90	0.5	40	1.03	1.9	18	2	807
I027586		5.92	0.103		0.3	0.38	890	<10	50	0.6	5	2.29	0.5	16	2	227
I027587		6.07	0.023		0.3	0.44	491	<10	100	0.5	21	1.70	<0.5	13	3	335
I027588		6.17	0.053		0.5	0.32	786	<10	90	0.6	16	1.23	<0.5	15	5	374
I027589		5.99	0.016		0.2	0.36	776	<10	120	0.6	9	1.62	<0.5	13	2	285
I027590		0.31	0.005		<0.2	0.02	4	<10	30	<0.5	3	>25.0	<0.5	1	<1	3
I027591		2.39	0.006		<0.2	0.37	571	<10	100	0.5	8	1.63	<0.5	10	3	212

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027552		3.22	10	<1	0.49	30	1.12	182	<1	0.02	21	920	3	0.81	3	9
I027553		3.87	10	<1	0.28	40	0.85	178	1	0.01	26	460	4	1.57	6	6
I027554		5.24	<10	<1	0.16	20	0.58	675	44	0.01	34	570	3	3.75	37	4
I027555		0.11	<10	<1	0.01	<10	0.85	108	<1	0.01	<1	70	2	<0.01	4	<1
I027556		7.22	10	1	0.10	20	1.19	173	21	0.01	81	460	3	3.86	5	6
I027557		6.41	10	1	0.15	30	1.31	140	41	0.01	103	560	4	3.08	6	6
I027558		2.47	<10	1	0.13	10	0.44	83	4	0.02	18	180	3	1.08	2	2
I027559		3.89	<10	<1	0.19	10	0.81	156	3	0.01	20	200	17	2.21	4	2
I027560		5.86	<10	<1	0.29	<10	0.38	731	124	0.04	17	490	111	4.16	3	2
I027561		5.62	10	1	0.27	20	1.35	171	24	0.01	77	580	2	2.56	4	5
I027562		5.04	10	<1	0.15	30	0.96	231	130	0.01	72	590	3	1.98	6	6
I027563		4.91	10	<1	0.32	20	1.43	190	6	0.01	130	470	2	1.91	2	8
I027564		4.42	10	<1	0.63	20	1.83	192	8	0.05	186	450	<2	1.68	4	6
I027565		5.53	10	1	0.15	40	1.05	137	3	0.01	87	480	25	2.69	6	6
I027566		4.27	<10	<1	0.11	20	0.91	291	2	0.01	179	420	3	1.25	12	8
I027567		5.08	10	<1	0.18	20	1.19	258	30	0.01	242	470	4	1.95	6	9
I027568		10.10	10	<1	0.38	20	1.08	206	71	0.01	188	630	2	5.78	13	7
I027569		6.31	10	<1	0.24	30	1.01	230	54	0.01	98	550	2	2.73	8	8
I027570		0.14	<10	<1	0.02	<10	0.44	93	<1	0.01	<1	70	2	0.01	<2	<1
I027571		4.55	<10	<1	0.25	30	0.63	181	41	0.01	127	2030	3	1.90	10	6
I027572		6.99	<10	<1	0.16	20	0.55	156	28	0.01	111	810	5	3.65	8	5
I027573		6.59	<10	<1	0.13	20	0.75	193	29	0.01	63	430	5	2.94	11	5
I027574		3.36	<10	<1	0.12	40	0.53	171	1	0.01	21	470	5	0.97	3	5
I027575		3.31	<10	<1	0.13	10	0.46	276	<1	0.01	14	200	7	1.34	24	2
I027576		2.25	<10	<1	0.11	<10	0.18	325	<1	0.01	10	50	7	1.19	15	<1
I027577		5.63	<10	<1	0.13	30	0.49	534	1	0.01	37	630	7	2.11	14	4
I027578		4.07	<10	<1	0.11	30	0.44	351	1	0.01	27	680	7	1.39	10	6
I027579		5.14	<10	<1	0.18	30	0.39	428	<1	0.01	28	410	8	1.63	5	4
I027580		3.09	10	<1	0.19	10	0.71	440	249	0.09	24	630	9	0.46	3	5
I027581		5.06	<10	<1	0.20	10	0.26	376	2	0.01	11	770	6	2.58	45	1
I027582		5.31	<10	<1	0.24	10	0.21	273	2	0.01	9	760	6	2.96	34	1
I027583		4.63	<10	<1	0.22	10	0.14	637	2	0.01	11	800	27	1.96	41	1
I027584		4.30	<10	<1	0.18	10	0.21	475	2	0.01	11	790	7	1.85	38	1
I027585		3.60	<10	<1	0.18	10	0.43	481	2	0.01	8	800	146	1.89	56	1
I027586		3.54	<10	<1	0.16	10	0.73	572	2	0.01	7	720	24	1.92	48	1
I027587		3.88	<10	<1	0.16	10	0.65	259	2	0.01	11	720	6	2.51	54	1
I027588		3.31	<10	<1	0.18	10	0.43	438	3	0.01	16	350	8	1.54	70	1
I027589		3.78	<10	<1	0.21	10	0.56	279	2	0.01	7	710	28	2.47	56	1
I027590		0.12	<10	<1	0.01	<10	0.51	87	<1	0.01	1	60	2	0.05	<2	<1
I027591		2.99	<10	<1	0.16	10	0.56	191	1	0.01	6	610	7	1.74	42	1

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I027552		41	<20	0.04	<10	<10	65	<10	18	
I027553		20	<20	0.02	<10	<10	43	<10	12	
I027554		44	<20	<0.01	<10	<10	24	<10	14	
I027555		85	<20	<0.01	<10	<10	<1	<10	<2	
I027556		10	<20	<0.01	<10	<10	91	<10	16	
I027557		13	<20	0.01	<10	<10	84	<10	17	
I027558		31	<20	<0.01	<10	<10	13	<10	13	
I027559		56	<20	<0.01	<10	<10	8	<10	29	
I027560		38	<20	0.02	<10	<10	24	<10	868	
I027561		16	<20	0.01	<10	<10	54	<10	21	
I027562		30	<20	0.01	<10	<10	58	<10	34	
I027563		24	<20	0.02	<10	<10	87	<10	34	
I027564		34	<20	0.05	<10	<10	79	<10	25	
I027565		8	<20	<0.01	<10	<10	72	<10	29	
I027566		34	<20	<0.01	<10	<10	62	<10	32	
I027567		14	<20	0.01	<10	<10	74	<10	29	
I027568		6	<20	0.02	<10	<10	74	<10	28	
I027569		18	<20	0.01	<10	<10	90	<10	24	
I027570		87	<20	0.01	<10	<10	2	<10	2	
I027571		15	<20	0.02	<10	<10	127	<10	35	
I027572		18	<20	0.01	<10	<10	57	<10	18	
I027573		16	<20	<0.01	<10	<10	53	<10	21	
I027574		29	20	<0.01	<10	<10	23	<10	12	
I027575		28	<20	<0.01	10	<10	6	<10	15	
I027576		23	<20	<0.01	<10	<10	1	<10	30	
I027577		34	<20	<0.01	<10	<10	19	<10	34	
I027578		30	<20	<0.01	<10	<10	26	<10	30	
I027579		15	<20	<0.01	<10	<10	15	<10	24	
I027580		43	<20	0.13	<10	<10	59	10	57	
I027581		14	<20	<0.01	<10	<10	4	<10	37	
I027582		15	<20	<0.01	<10	<10	3	<10	20	
I027583		11	<20	<0.01	<10	<10	3	<10	86	
I027584		23	<20	<0.01	<10	<10	3	<10	38	
I027585		57	<20	<0.01	<10	<10	3	<10	221	
I027586		72	<20	<0.01	<10	<10	3	<10	61	
I027587		58	<20	<0.01	<10	<10	4	<10	19	
I027588		41	<20	<0.01	<10	<10	5	<10	35	
I027589		69	<20	<0.01	<10	<10	3	<10	36	
I027590		87	<20	<0.01	<10	<10	<1	<10	3	
I027591		72	<20	<0.01	<10	<10	3	<10	13	

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I027592		4.55	0.019		<0.2	0.35	811	<10	120	0.6	3	1.72	0.6	10	6	200
I027593		7.36	0.053		<0.2	0.43	42	<10	80	0.8	2	1.32	<0.5	9	15	82
I027594		9.00	0.228		0.3	0.41	23	<10	10	0.7	391	0.80	<0.5	10	16	288
I027595		6.01	0.138		<0.2	0.80	476	<10	30	0.7	6	1.93	<0.5	9	24	88
I027596		7.18	0.062		<0.2	0.43	218	<10	100	0.7	6	2.06	<0.5	10	14	97
I027597		8.27	0.203		0.6	0.58	224	<10	40	0.6	96	2.12	<0.5	8	10	407
I027598		7.10	2.36		0.2	1.15	39	<10	40	0.9	147	1.13	<0.5	9	36	138
I027599		6.16	0.363		<0.2	0.66	42	<10	20	0.5	13	0.38	<0.5	7	26	111
I027600		0.06	4.36		0.8	0.25	369	10	180	<0.5	2	9.6	0.6	5	21	34
I027601		4.93	0.041		0.2	1.60	213	<10	20	2.0	279	0.95	<0.5	12	40	173
I027602		4.91	0.146		0.4	1.21	97	<10	30	1.1	8	0.40	<0.5	44	25	533
I027603		4.51	1.125		0.4	1.20	54	<10	60	1.3	31	0.60	<0.5	17	20	430
I027604		4.65	0.089		<0.2	1.35	44	<10	200	0.5	3	0.34	<0.5	8	24	74
I027605		5.00	1.060		1.0	0.24	2490	10	10	2.8	216	1.61	<0.5	42	14	729
I027606		5.55	0.073		1.5	0.27	1455	<10	10	1.2	26	1.92	<0.5	116	8	1710
I027607		6.08	0.305		1.0	0.44	3300	10	<10	1.7	25	1.56	<0.5	75	3	1095
I027608		0.35	0.005		0.2	0.05	21	<10	20	<0.5	5	>25.0	<0.5	2	1	23
I027609		7.32	0.142		1.7	1.72	20	<10	10	0.6	36	1.70	<0.5	117	19	2030
I027610		0.35	<0.005		0.3	0.02	<2	<10	30	<0.5	5	>25.0	<0.5	1	1	17
I027611		5.65	3.38		2.6	1.49	14	<10	10	0.7	1040	0.80	<0.5	119	13	2260
I027612		0.34	<0.005		0.3	0.03	2	<10	20	<0.5	5	>25.0	<0.5	<1	1	5
I027613		3.91	0.302		0.3	0.96	1985	<10	130	0.5	14	0.18	<0.5	11	26	166
I027614		0.38	<0.005		0.3	0.02	4	<10	20	<0.5	5	>25.0	<0.5	1	1	3
I027615		4.59	0.129		<0.2	0.84	1290	<10	410	0.5	3	0.22	<0.5	8	26	85
I027616		3.69	0.046		<0.2	0.77	74	<10	220	0.5	5	0.39	<0.5	8	27	117
I027617		6.59	0.098		0.2	1.38	1150	<10	170	1.0	34	1.01	<0.5	10	47	171
I027618		6.61	0.135		0.2	0.81	641	<10	170	0.8	5	0.60	<0.5	11	28	205
I027619		4.85	0.451		0.3	1.22	8170	<10	50	0.9	43	1.36	<0.5	19	40	198
I027620		0.06	1.400		5.1	1.45	26	10	150	<0.5	3	0.86	0.6	13	43	>10000
I027621		5.73	0.164		1.1	1.17	3130	<10	30	0.8	27	1.06	<0.5	12	46	723
I027622		6.79	0.301		1.2	0.78	6080	<10	40	0.8	46	2.08	<0.5	14	25	778
I027623		6.04	0.028		0.3	1.01	1190	<10	10	0.7	11	1.32	<0.5	7	29	232
I027624		8.39	0.014		<0.2	1.33	71	<10	40	0.7	<2	0.67	<0.5	8	44	63
I027625		4.40	0.048		0.5	1.46	785	<10	50	0.7	5	1.17	<0.5	11	194	348
I027626		4.72	0.020		<0.2	1.18	493	<10	80	0.9	<2	1.28	<0.5	7	50	43
I027627		6.25	0.034		<0.2	0.42	65	<10	50	0.7	<2	1.58	<0.5	4	6	106
I027628		4.76	0.058		0.2	1.39	1120	<10	50	1.0	3	1.30	<0.5	10	41	124
I027629		6.55	0.026		0.4	1.12	157	<10	30	0.9	9	1.91	<0.5	10	31	299
I027630		0.31	<0.005		0.2	0.03	5	<10	20	<0.5	4	>25.0	<0.5	<1	1	2
I027631		5.74	0.120		0.3	1.00	3870	<10	20	1.0	12	3.24	<0.5	30	29	245

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027592		2.90	<10	<1	0.16	10	0.62	213	2	0.01	13	400	35	1.39	43	2
I027593		2.94	<10	<1	0.13	40	0.63	173	1	0.01	22	350	7	0.72	7	5
I027594		2.84	<10	<1	0.11	30	0.39	151	1	0.01	21	330	9	0.99	7	4
I027595		2.71	<10	<1	0.27	30	0.54	149	1	0.01	18	460	6	0.54	3	5
I027596		2.72	<10	<1	0.11	30	0.50	166	1	0.01	24	290	7	0.87	6	4
I027597		2.71	<10	<1	0.18	20	0.79	162	1	0.01	22	290	6	0.80	21	3
I027598		3.79	10	<1	0.39	40	0.80	125	2	0.02	25	470	6	1.08	4	5
I027599		2.76	<10	<1	0.20	20	0.38	112	1	0.01	16	240	3	0.85	3	2
I027600		1.79	<10	4	0.10	<10	4.71	331	8	0.01	33	480	9	1.37	61	3
I027601		8.37	10	<1	0.25	20	0.65	334	5	0.01	22	380	3	2.31	8	5
I027602		15.35	10	<1	0.37	20	0.71	348	<1	0.02	37	520	<2	9.57	7	4
I027603		15.75	10	<1	0.31	20	0.79	516	<1	0.01	33	930	3	6.45	7	7
I027604		6.87	10	<1	0.42	20	0.89	374	<1	0.04	18	630	3	0.52	<2	9
I027605		32.2	<10	<1	0.01	<10	0.51	1245	<1	0.01	17	910	2	>10.0	164	3
I027606		39.9	<10	<1	0.01	10	0.28	754	<1	0.01	21	1190	<2	>10.0	72	1
I027607		41.7	<10	<1	0.04	10	0.41	940	1	0.03	12	830	3	>10.0	106	2
I027608		0.40	<10	1	<0.01	<10	0.50	98	<1	0.01	3	80	2	0.13	2	<1
I027609		30.2	10	2	0.19	<10	0.19	406	1	0.12	26	2150	6	>10.0	6	1
I027610		0.20	<10	1	<0.01	<10	0.50	103	<1	0.01	2	80	<2	0.08	<2	<1
I027611		31.0	10	1	0.10	<10	0.18	253	1	0.06	38	380	6	>10.0	6	3
I027612		0.11	<10	1	0.01	<10	0.85	96	<1	<0.01	1	70	<2	0.02	<2	<1
I027613		4.49	<10	<1	0.23	10	0.75	171	5	0.01	35	490	3	1.23	4	4
I027614		0.09	<10	2	0.01	<10	0.58	86	<1	<0.01	<1	70	<2	0.01	2	<1
I027615		3.09	<10	<1	0.30	10	0.63	166	6	0.01	41	650	5	0.50	3	4
I027616		2.35	<10	1	0.16	10	0.71	264	6	<0.01	65	630	16	0.76	2	4
I027617		3.36	10	1	0.24	30	0.85	201	6	0.05	34	450	7	1.14	4	6
I027618		3.61	<10	1	0.14	30	0.46	137	2	0.01	29	550	3	1.48	27	5
I027619		4.15	10	1	0.36	30	0.64	198	1	0.03	43	710	4	1.40	5	5
I027620		3.50	10	<1	0.14	10	0.65	503	498	0.11	35	560	10	0.99	<2	5
I027621		2.99	10	<1	0.31	20	0.67	122	2	0.03	34	630	5	1.20	2	4
I027622		3.01	<10	<1	0.12	10	0.52	264	1	0.03	18	680	5	1.20	3	7
I027623		3.10	10	<1	0.08	20	0.52	220	1	0.05	16	400	3	1.16	3	4
I027624		2.17	10	<1	0.42	30	0.63	144	2	0.02	23	230	4	0.34	2	4
I027625		3.52	10	<1	0.58	20	1.06	160	<1	0.01	69	470	4	1.11	<2	6
I027626		2.35	10	1	0.45	20	0.74	163	1	0.02	24	260	4	0.28	<2	5
I027627		1.35	<10	1	0.12	10	0.18	91	<1	0.01	4	170	9	0.55	3	1
I027628		2.74	10	1	0.49	20	0.71	140	<1	0.01	29	270	5	0.60	2	5
I027629		3.45	10	1	0.27	30	0.54	232	1	<0.01	27	400	6	0.84	7	5
I027630		0.11	<10	1	0.01	<10	0.52	87	<1	0.01	<1	70	<2	0.01	<2	<1
I027631		4.77	10	1	0.17	30	0.55	340	1	<0.01	26	450	5	1.33	9	6

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method Analyte Units LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I027592		54	<20	<0.01	<10	<10	6	<10	63	
I027593		44	20	<0.01	<10	<10	20	<10	10	
I027594		22	20	<0.01	<10	<10	18	<10	15	
I027595		48	<20	0.03	<10	<10	25	<10	16	
I027596		47	<20	<0.01	<10	<10	14	<10	10	
I027597		74	<20	<0.01	<10	<10	11	<10	16	
I027598		26	<20	0.03	<10	<10	42	<10	11	
I027599		9	<20	0.01	<10	<10	22	<10	8	
I027600		44	<20	<0.01	<10	<10	38	40	67	
I027601		28	<20	0.02	<10	<10	59	<10	33	
I027602		11	<20	0.06	<10	<10	32	<10	20	
I027603		15	<20	0.05	<10	<10	40	<10	22	
I027604		13	<20	0.09	<10	<10	60	<10	22	
I027605		27	<20	<0.01	10	<10	17	10	28	
I027606		26	<20	<0.01	<10	<10	14	<10	24	
I027607		19	<20	<0.01	<10	<10	21	10	22	
I027608		91	<20	0.01	<10	<10	1	<10	4	
I027609		14	<20	0.02	<10	<10	24	<10	25	
I027610		88	<20	<0.01	<10	<10	<1	<10	2	
I027611		11	<20	0.02	<10	<10	32	<10	14	
I027612		91	<20	<0.01	<10	<10	<1	<10	<2	
I027613		8	<20	0.02	<10	<10	56	<10	23	
I027614		93	<20	<0.01	<10	<10	1	<10	2	
I027615		13	<20	0.02	<10	<10	43	<10	31	
I027616		9	<20	0.01	<10	<10	51	<10	38	
I027617		28	<20	0.03	<10	<10	56	<10	20	
I027618		16	<20	0.01	<10	<10	30	<10	12	
I027619		33	<20	0.04	<10	<10	37	<10	13	
I027620		48	<20	0.13	<10	<10	59	30	78	1.285
I027621		27	<20	0.03	<10	<10	36	<10	17	
I027622		64	<20	0.02	<10	<10	45	<10	37	
I027623		34	<20	0.04	<10	<10	25	<10	21	
I027624		21	<20	0.05	<10	<10	31	<10	12	
I027625		35	<20	0.05	<10	<10	41	<10	18	
I027626		60	<20	0.05	<10	<10	37	<10	21	
I027627		90	<20	<0.01	<10	<10	5	<10	32	
I027628		45	<20	0.05	<10	<10	36	<10	16	
I027629		39	<20	0.03	<10	<10	36	10	26	
I027630		85	<20	<0.01	<10	<10	1	<10	2	
I027631		65	<20	0.02	<10	<10	43	10	17	

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
I027632		6.70	0.028		0.2	0.50	101	<10	50	0.9	7	1.28	<0.5	13	18	376
I027633		6.55	0.051		0.7	0.42	1305	<10	90	0.6	21	1.53	<0.5	14	8	422
I027634		7.33	0.096		1.8	0.43	1225	<10	120	0.7	28	1.59	<0.5	20	9	1185
I027635		8.25	0.020		0.4	0.69	78	<10	190	0.6	4	1.97	<0.5	9	16	315
I027636		6.51	0.034		1.2	1.61	1120	<10	110	1.0	16	1.27	<0.5	14	34	670
I027637		6.58	0.081		0.4	1.25	2020	<10	140	0.7	16	0.73	<0.5	13	22	271
I027638		5.43	0.132		0.6	0.60	3390	<10	30	0.6	42	0.40	<0.5	23	11	387
I027639		5.75	0.098		0.9	1.58	970	<10	80	0.8	17	0.46	<0.5	14	40	502
I027640		0.06	0.706		5.4	1.32	31	10	50	<0.5	<2	0.54	5.2	15	21	5380
I027641		5.67	0.110		1.0	1.26	1015	<10	60	0.9	12	0.78	<0.5	11	28	674
I027642		5.10	0.303		0.8	0.46	1445	<10	30	0.5	23	0.63	<0.5	12	13	446
I027643		6.08	0.200		1.6	0.99	1395	<10	60	0.7	97	0.89	5.0	21	26	767
I027644		6.39	0.055		0.7	1.67	1710	<10	90	0.9	22	0.76	<0.5	13	35	464
I027645		5.83	0.053		0.4	1.07	664	<10	330	0.8	26	1.12	<0.5	10	26	324
I027646		5.84	0.099		0.4	1.02	2290	<10	60	0.7	16	0.80	0.8	12	27	235
I027647		5.63	0.072		0.5	0.75	3700	<10	30	0.5	14	0.82	<0.5	9	15	290
I027648		5.64	0.187		1.0	0.68	2900	<10	60	0.6	32	1.25	2.7	8	13	289
I027649		2.83	0.065		0.6	0.69	407	<10	50	0.6	36	1.17	3.7	9	14	148
I027650		0.32	0.006		<0.2	0.03	6	<10	20	<0.5	2	>25.0	<0.5	<1	<1	2
I027651		4.26	0.043		0.3	0.44	961	<10	80	0.6	8	1.10	1.8	8	11	158
I027652		4.81	0.034		0.4	0.42	725	<10	250	0.5	12	1.74	<0.5	7	4	258
I027653		6.33	0.057		0.5	0.41	1780	<10	120	0.6	6	1.35	<0.5	5	2	271
I027654		5.85	0.045		0.3	0.46	1260	<10	100	0.7	3	1.34	<0.5	6	6	190
I027655		3.09	0.027		1.4	0.44	351	<10	290	0.5	45	1.42	0.6	9	5	1040
I027656		6.20	0.066		0.5	0.95	491	<10	50	0.8	8	1.02	<0.5	13	22	358
I027657		5.31	0.019		<0.2	0.75	284	<10	40	0.6	2	0.80	<0.5	10	19	167
I027658		5.64	0.057		0.3	1.89	212	<10	100	0.8	38	0.47	<0.5	19	49	188
I027659		7.89	0.694		0.2	0.48	1470	<10	180	<0.5	11	0.05	<0.5	<1	8	95
I027660		0.06	0.325		0.9	1.56	9	<10	120	<0.5	2	0.95	<0.5	11	29	3320
I027661		8.19	0.029		<0.2	0.44	566	<10	120	<0.5	3	0.02	<0.5	<1	5	53
I027662		9.52	0.020		<0.2	0.60	503	<10	90	<0.5	3	0.01	<0.5	1	4	64
I027663		4.58	0.008		<0.2	0.26	48	<10	60	<0.5	2	0.01	<0.5	<1	5	17
I027664		6.30	0.020		<0.2	0.35	78	<10	70	<0.5	8	0.01	<0.5	1	5	61
I027665		5.28	0.064		0.3	4.06	36	<10	90	0.7	8	0.52	<0.5	5	46	609
I027666		4.13	0.128		<0.2	2.06	8	<10	20	0.8	5	0.45	<0.5	9	155	444
I027667		7.51	0.150		0.2	2.98	57	<10	60	0.9	9	0.22	<0.5	6	352	532
I027668		5.70	0.082		<0.2	0.51	625	<10	60	<0.5	6	0.02	<0.5	1	11	82
I027669		9.11	0.014		0.2	2.11	574	<10	60	<0.5	6	0.10	<0.5	4	27	306
I027670		0.28	<0.005		<0.2	0.03	7	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3
I027671		8.31	0.022		<0.2	1.91	684	<10	60	<0.5	6	0.22	<0.5	3	20	180

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027632		4.91	<10	<1	0.14	30	0.39	144	1	<0.01	30	420	5	2.50	17	5
I027633		2.55	<10	<1	0.16	10	0.44	136	2	<0.01	10	330	7	1.29	41	2
I027634		3.50	<10	<1	0.19	20	0.48	166	1	<0.01	22	370	13	1.95	26	3
I027635		2.40	<10	<1	0.23	30	0.45	128	2	0.01	16	260	10	0.99	8	3
I027636		3.16	10	<1	0.63	30	0.77	123	1	0.01	28	310	3	0.90	5	4
I027637		2.28	<10	<1	0.53	30	0.68	97	1	0.01	22	390	2	0.54	3	2
I027638		2.28	<10	<1	0.31	20	0.28	93	4	0.01	29	390	3	0.93	2	1
I027639		2.71	10	<1	0.69	30	0.85	122	1	0.01	32	420	5	0.67	2	4
I027640		6.14	<10	1	0.31	<10	0.39	736	124	0.04	17	510	110	4.28	3	2
I027641		2.52	<10	1	0.49	30	0.72	109	2	0.01	24	630	4	0.72	2	4
I027642		1.70	<10	1	0.27	20	0.33	116	1	0.01	20	260	7	0.67	3	2
I027643		3.06	<10	1	0.52	20	0.73	188	1	0.01	28	380	106	1.01	6	3
I027644		2.88	10	<1	0.73	30	0.97	104	1	0.02	32	510	9	0.74	<2	4
I027645		2.59	<10	<1	0.54	20	0.84	132	2	0.01	29	520	9	0.59	13	4
I027646		2.96	<10	<1	0.53	20	0.85	199	1	0.01	28	540	19	0.59	2	4
I027647		2.26	<10	<1	0.32	20	0.66	142	1	0.01	23	450	17	0.55	2	3
I027648		2.20	<10	<1	0.28	20	0.69	192	<1	0.01	18	460	128	0.62	5	3
I027649		2.61	<10	<1	0.34	20	0.84	235	1	0.01	28	620	79	0.58	4	3
I027650		0.09	<10	<1	0.01	<10	0.51	97	<1	0.01	<1	70	<2	0.01	<2	<1
I027651		2.53	<10	<1	0.22	20	0.57	178	2	0.01	23	320	39	0.96	13	2
I027652		1.92	<10	<1	0.16	30	0.64	119	1	0.01	7	300	9	0.74	11	2
I027653		1.54	<10	<1	0.15	20	0.34	85	1	0.02	4	270	8	0.63	8	1
I027654		1.78	<10	<1	0.14	20	0.34	106	1	0.02	6	230	7	0.45	5	2
I027655		1.94	<10	<1	0.18	20	0.50	159	2	0.01	10	290	47	0.74	16	1
I027656		2.78	<10	<1	0.42	30	0.73	162	2	0.01	30	460	13	0.68	6	5
I027657		2.37	<10	<1	0.37	20	0.53	155	1	0.01	24	330	7	0.57	2	2
I027658		3.43	10	<1	1.01	30	1.12	160	3	0.01	46	670	13	0.55	<2	5
I027659		2.59	<10	<1	0.45	20	0.03	21	4	0.02	2	320	7	0.62	28	4
I027660		3.19	10	<1	0.20	10	0.73	466	263	0.09	24	650	9	0.47	2	5
I027661		0.98	<10	<1	0.27	20	0.01	21	6	0.01	1	90	5	0.30	6	1
I027662		1.06	<10	<1	0.23	20	0.01	23	2	0.03	1	90	5	0.29	6	2
I027663		0.61	<10	<1	0.19	20	0.01	24	2	0.04	1	40	5	0.16	<2	<1
I027664		1.29	<10	<1	0.21	20	0.01	25	1	0.05	1	80	5	0.24	2	1
I027665		10.40	10	<1	1.49	<10	2.50	301	1	0.09	11	840	5	0.75	3	34
I027666		8.02	10	<1	0.66	<10	1.90	216	<1	0.04	20	110	4	0.16	<2	25
I027667		10.60	10	<1	1.00	<10	2.10	176	<1	0.03	15	300	6	0.44	3	34
I027668		1.70	<10	<1	0.22	20	0.10	32	2	0.06	1	180	10	0.27	<2	3
I027669		5.24	10	<1	0.74	10	1.01	89	1	0.10	6	580	5	0.81	<2	14
I027670		0.12	<10	<1	0.01	<10	0.55	96	<1	0.01	<1	80	<2	0.02	<2	<1
I027671		3.68	10	<1	0.48	10	0.82	120	<1	0.09	4	570	4	0.51	<2	11

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I027632		33	<20	<0.01	<10	<10	21	<10	11	
I027633		60	<20	<0.01	<10	<10	11	<10	19	
I027634		63	<20	<0.01	<10	<10	10	<10	31	
I027635		50	<20	0.01	<10	<10	15	<10	19	
I027636		27	<20	0.06	<10	<10	36	<10	10	
I027637		20	<20	0.04	<10	<10	19	<10	10	
I027638		12	<20	0.01	<10	<10	8	<10	9	
I027639		13	<20	0.07	<10	<10	35	<10	16	
I027640		38	<20	0.03	<10	<10	24	<10	891	
I027641		26	<20	0.03	<10	<10	31	<10	22	
I027642		31	<20	0.01	<10	<10	9	<10	17	
I027643		35	<20	0.03	<10	<10	21	<10	506	
I027644		26	<20	0.06	<10	<10	32	<10	16	
I027645		65	<20	0.04	<10	<10	23	<10	18	
I027646		36	<20	0.05	<10	<10	27	<10	82	
I027647		55	<20	0.02	<10	<10	16	<10	25	
I027648		73	<20	0.01	<10	<10	15	<10	283	
I027649		64	<20	0.01	<10	<10	17	<10	391	
I027650		90	<20	<0.01	<10	<10	<1	<10	2	
I027651		60	<20	<0.01	<10	<10	10	<10	181	
I027652		52	<20	<0.01	<10	<10	5	<10	10	
I027653		42	<20	<0.01	<10	<10	3	<10	7	
I027654		55	<20	<0.01	<10	<10	8	<10	12	
I027655		79	<20	<0.01	<10	<10	5	<10	59	
I027656		51	<20	0.02	<10	<10	24	<10	25	
I027657		29	<20	0.02	<10	<10	16	<10	35	
I027658		15	<20	0.10	<10	<10	58	<10	16	
I027659		18	<20	<0.01	10	<10	19	<10	2	
I027660		48	<20	0.14	<10	<10	63	10	58	
I027661		9	20	<0.01	<10	<10	3	<10	<2	
I027662		8	20	<0.01	<10	<10	3	<10	2	
I027663		6	<20	<0.01	<10	<10	1	<10	2	
I027664		6	20	<0.01	<10	<10	3	<10	4	
I027665		32	<20	0.43	10	10	304	<10	71	
I027666		4	<20	0.23	<10	<10	143	<10	81	
I027667		7	<20	0.19	<10	<10	182	<10	87	
I027668		9	20	<0.01	<10	<10	10	<10	5	
I027669		28	<20	0.08	<10	<10	117	<10	28	
I027670		92	<20	<0.01	<10	<10	1	<10	3	
I027671		25	<20	0.15	<10	<10	88	<10	28	

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
I027672		9.59	0.028		<0.2	1.40	133	<10	50	<0.5	6	0.16	<0.5	4	9	249
I027673		8.87	0.149		0.2	0.89	2880	<10	30	<0.5	11	0.02	<0.5	3	8	424
I027674		8.77	0.111		<0.2	1.23	2100	<10	40	<0.5	21	0.02	<0.5	4	14	197
I027675		8.73	0.039		<0.2	1.30	2040	<10	30	<0.5	8	0.03	<0.5	6	22	264
I027676		10.17	0.140		0.2	2.31	64	<10	50	0.5	5	0.17	<0.5	13	58	317
I027677		9.37	0.128		<0.2	2.54	31	<10	60	<0.5	10	0.45	<0.5	14	37	148
I027678		10.01	0.299		0.2	1.92	226	<10	60	<0.5	8	0.21	0.5	14	23	221
I027679		8.65	0.089		<0.2	1.83	92	<10	50	<0.5	6	0.18	0.5	15	14	226
I027680		0.06	0.677		5.6	1.36	29	<10	60	<0.5	3	0.55	5.3	15	21	5510
I027681		10.13	0.176		0.2	2.36	31	<10	130	<0.5	3	0.20	<0.5	16	36	96
I027682		9.57	1.135		0.2	1.50	18	<10	40	<0.5	6	0.09	<0.5	18	27	202
I027683		9.54	0.104		<0.2	1.62	100	<10	90	<0.5	5	0.06	<0.5	11	34	151
I027684		10.53	0.068		0.5	1.11	290	<10	70	<0.5	23	0.04	<0.5	9	16	579
I027685		4.65	0.507		0.3	0.95	6040	<10	40	0.6	19	0.12	1.4	8	3	1530
I027686		8.12	0.199		0.2	0.93	4070	<10	30	0.8	9	0.06	0.8	5	6	267
I027687		5.65	0.069		0.2	0.90	1815	<10	20	0.5	5	0.09	2.1	12	22	167
I027688		6.86	0.063		0.2	2.07	232	<10	20	0.7	6	0.17	2.6	51	33	201
I027689		5.72	0.059		0.2	1.31	869	<10	70	1.3	7	0.05	0.8	11	9	210
I027690		0.38	<0.005		<0.2	0.04	8	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2
I027691		9.31	0.500		0.3	0.40	3720	<10	110	<0.5	13	0.02	<0.5	<1	3	163
I027692		8.15	0.046		0.2	0.44	539	<10	120	<0.5	6	0.04	<0.5	1	3	16
I027693		7.92	0.056		<0.2	0.52	325	<10	150	<0.5	6	0.01	<0.5	<1	3	18
I027694		8.90	0.233		0.3	0.43	131	<10	140	<0.5	8	0.01	<0.5	<1	3	15
I027695		9.62	0.147		0.3	0.46	110	<10	120	<0.5	12	0.01	0.6	<1	4	31
I027696		8.60	0.237		0.4	0.42	972	<10	190	<0.5	25	0.01	0.6	<1	6	37
I027697		8.62	0.746		0.4	0.88	253	<10	150	<0.5	10	0.01	0.9	1	53	148
I027698		7.99	0.757		0.2	0.42	115	<10	100	<0.5	20	0.01	<0.5	1	4	18
I027699		7.74	0.495		<0.2	0.43	43	<10	120	<0.5	12	0.01	<0.5	1	4	14
I027700		0.06	0.331		1.0	1.56	6	<10	120	<0.5	2	0.97	0.6	11	29	3190
I027701		4.87	0.022		<0.2	0.39	35	<10	130	<0.5	3	0.01	<0.5	<1	3	18
I027702		5.48	0.060		<0.2	0.43	49	<10	100	<0.5	6	0.01	<0.5	<1	3	22
I027703		5.75	0.166		0.4	0.40	701	<10	90	<0.5	14	0.01	<0.5	<1	3	28
I027704		5.04	0.062		0.3	0.38	131	<10	90	<0.5	10	0.01	<0.5	<1	5	14
I027705		6.24	0.202		0.3	0.42	586	<10	110	<0.5	21	0.01	<0.5	1	3	30
I027706		4.66	0.043		<0.2	0.54	165	<10	140	<0.5	3	0.01	<0.5	1	2	94
I027707		4.81	0.218		0.6	0.41	330	<10	100	<0.5	14	0.01	<0.5	1	4	82
I027708		4.50	0.099		0.3	0.33	937	<10	50	<0.5	8	0.01	<0.5	1	4	105
I027709		6.10	0.237		0.4	0.47	1220	<10	50	<0.5	47	0.02	1.0	8	4	191
I027710		0.37	<0.005		<0.2	0.03	4	<10	20	<0.5	2	>25.0	<0.5	<1	1	2
I027711		6.05	0.021		0.2	0.43	56	<10	110	<0.5	2	0.03	<0.5	2	2	350

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1
I027672		3.98	10	<1	0.31	10	0.62	103	1	0.09	3	640	3	0.89	<2	9
I027673		2.53	<10	<1	0.20	20	0.42	64	<1	0.07	2	280	3	0.66	<2	3
I027674		4.81	10	<1	0.24	20	0.62	78	1	0.09	3	810	5	0.72	5	6
I027675		4.05	10	<1	0.33	20	0.83	93	1	0.06	7	570	4	1.23	<2	7
I027676		6.04	10	<1	0.84	10	1.77	143	1	0.06	36	850	2	2.17	<2	18
I027677		6.96	10	<1	1.03	10	1.85	229	1	0.08	21	1040	3	1.85	<2	17
I027678		5.64	10	<1	0.57	10	1.33	180	<1	0.06	11	740	3	2.00	<2	16
I027679		5.69	10	<1	0.60	10	1.42	206	1	0.06	12	670	4	1.98	<2	14
I027680		5.94	<10	<1	0.30	<10	0.38	732	123	0.05	18	510	113	4.22	<2	2
I027681		5.19	10	<1	1.25	10	1.84	222	1	0.06	20	620	4	1.14	<2	14
I027682		5.06	10	<1	0.32	20	0.92	142	1	0.03	18	340	2	2.50	<2	5
I027683		2.20	<10	<1	0.51	30	0.85	97	2	0.02	32	390	3	0.67	<2	3
I027684		1.97	<10	1	0.27	20	0.27	61	2	0.02	22	340	4	1.54	2	2
I027685		4.47	<10	<1	0.33	10	0.05	33	2	0.01	28	860	8	4.52	8	1
I027686		2.72	<10	<1	0.16	30	0.07	92	1	0.02	12	230	3	1.78	5	2
I027687		3.48	<10	<1	0.15	20	0.49	276	<1	0.04	20	240	3	1.30	4	3
I027688		7.45	10	<1	0.16	20	1.82	412	1	0.03	68	530	4	2.72	5	13
I027689		4.04	<10	<1	0.30	20	0.09	33	2	0.06	21	620	4	2.50	24	3
I027690		0.11	<10	<1	0.01	<10	0.55	92	<1	0.02	<1	70	<2	0.03	<2	<1
I027691		2.03	<10	<1	0.35	20	0.01	22	1	0.05	2	60	4	0.65	5	1
I027692		1.51	<10	<1	0.31	20	0.01	21	1	0.04	2	60	3	0.49	2	<1
I027693		1.37	<10	<1	0.36	20	0.01	22	1	0.03	1	110	4	0.53	<2	<1
I027694		1.13	<10	<1	0.32	20	0.01	29	1	0.02	1	50	6	0.41	<2	<1
I027695		1.30	<10	<1	0.35	20	0.01	22	1	0.02	1	120	4	0.45	2	<1
I027696		2.45	<10	1	0.50	20	0.02	24	1	0.02	1	310	4	0.88	7	2
I027697		3.72	<10	<1	0.45	20	0.16	34	1	0.02	3	470	4	0.77	6	4
I027698		1.03	<10	<1	0.25	20	0.01	24	1	0.02	2	80	4	0.34	<2	1
I027699		1.11	<10	<1	0.29	20	0.01	23	1	0.02	1	70	5	0.38	<2	<1
I027700		3.04	10	<1	0.19	10	0.71	454	265	0.10	23	640	8	0.46	<2	5
I027701		1.49	<10	<1	0.30	20	0.01	28	2	0.02	1	100	6	0.44	<2	<1
I027702		1.60	<10	<1	0.28	20	0.01	25	1	0.02	2	70	4	0.41	<2	<1
I027703		0.99	<10	<1	0.29	20	0.01	25	1	0.02	<1	50	3	0.34	<2	<1
I027704		0.81	<10	<1	0.25	10	0.01	22	1	0.02	1	50	3	0.27	<2	<1
I027705		1.47	<10	<1	0.30	20	0.01	32	1	0.02	1	60	3	0.35	2	<1
I027706		3.50	<10	<1	0.24	20	0.01	44	1	0.02	2	70	3	0.30	4	<1
I027707		2.63	<10	<1	0.24	20	0.01	62	1	0.05	4	60	4	0.28	4	<1
I027708		0.96	<10	<1	0.17	20	0.01	23	1	0.04	1	50	2	0.52	<2	<1
I027709		1.24	<10	<1	0.19	10	0.02	38	1	0.03	4	60	3	0.77	3	<1
I027710		0.05	<10	<1	<0.01	<10	0.48	92	<1	0.02	<1	70	<2	0.02	<2	<1
I027711		2.32	<10	<1	0.22	10	0.02	61	1	0.02	3	50	3	0.35	7	<1

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I027672		18	<20	0.11	<10	<10	72	<10	22	
I027673		10	<20	<0.01	<10	<10	27	<10	11	
I027674		12	<20	<0.01	<10	<10	58	<10	15	
I027675		8	<20	0.03	<10	<10	66	<10	14	
I027676		11	<20	0.12	<10	<10	146	<10	30	
I027677		17	<20	0.17	<10	<10	157	<10	36	
I027678		16	<20	0.08	<10	<10	102	<10	29	
I027679		7	<20	0.06	<10	<10	122	<10	41	
I027680		39	<20	0.03	<10	<10	25	<10	887	
I027681		8	<20	0.12	<10	<10	121	<10	47	
I027682		4	<20	0.02	<10	<10	44	<10	31	
I027683		5	<20	0.03	<10	<10	49	<10	14	
I027684		7	<20	<0.01	<10	10	21	<10	10	
I027685		13	<20	<0.01	<10	10	9	<10	15	
I027686		5	<20	<0.01	<10	<10	14	<10	21	
I027687		4	<20	<0.01	<10	<10	24	<10	50	
I027688		5	<20	0.01	<10	<10	115	<10	123	
I027689		20	20	<0.01	<10	10	37	<10	25	
I027690		94	<20	<0.01	<10	<10	<1	<10	<2	
I027691		9	20	<0.01	<10	<10	2	<10	3	
I027692		9	30	<0.01	<10	<10	2	<10	<2	
I027693		10	30	<0.01	<10	<10	2	<10	<2	
I027694		7	20	<0.01	<10	<10	2	<10	<2	
I027695		8	20	<0.01	<10	<10	4	<10	<2	
I027696		16	<20	<0.01	<10	<10	9	<10	5	
I027697		14	<20	<0.01	10	<10	36	<10	11	
I027698		6	20	<0.01	<10	<10	6	<10	3	
I027699		6	20	<0.01	<10	<10	2	<10	2	
I027700		48	<20	0.15	<10	<10	64	10	59	
I027701		7	20	<0.01	<10	<10	1	<10	2	
I027702		7	20	<0.01	<10	<10	2	<10	3	
I027703		7	<20	<0.01	<10	<10	2	<10	2	
I027704		6	20	<0.01	<10	<10	1	<10	2	
I027705		8	20	<0.01	<10	<10	1	<10	51	
I027706		6	20	<0.01	<10	<10	2	<10	47	
I027707		13	20	<0.01	<10	10	1	<10	106	
I027708		10	20	<0.01	<10	10	<1	<10	5	
I027709		9	20	<0.01	<10	10	<1	<10	13	
I027710		88	<20	<0.01	<10	<10	<1	<10	2	
I027711		9	20	<0.01	<10	<10	<1	<10	20	

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
I027712		5.81	0.031		0.3	0.77	99	<10	80	0.6	13	0.02	<0.5	3	1	449
I027713		5.83	0.024		<0.2	0.40	145	<10	70	<0.5	<2	0.06	<0.5	2	2	77
I027714		5.97	0.021		<0.2	0.39	622	<10	30	<0.5	<2	0.02	<0.5	5	2	96
I027715		5.95	0.193		0.4	0.30	220	<10	40	<0.5	9	0.03	<0.5	5	2	134
I027716		6.47	0.179		0.8	0.29	137	<10	30	<0.5	57	0.03	<0.5	8	4	232
I027717		5.57	0.677		0.6	0.29	126	<10	30	<0.5	7	0.04	<0.5	3	2	160
I027718		5.42	0.478		1.0	0.31	295	<10	30	<0.5	37	0.04	<0.5	3	3	235
I027719		5.78	0.135		0.2	0.24	174	<10	40	<0.5	5	0.05	<0.5	2	6	100
I027720		0.06	0.264		0.9	1.52	7	10	120	<0.5	<2	0.91	<0.5	11	27	3240
I027721		5.72	0.011		<0.2	0.22	25	<10	50	<0.5	12	0.04	<0.5	4	4	70
I027722		5.85	0.404		0.3	0.23	512	<10	80	<0.5	2	0.04	<0.5	4	4	125
I027723		6.03	0.077		0.2	0.32	427	<10	30	<0.5	<2	0.02	<0.5	5	5	98
I027724		5.63	0.319		0.8	0.33	1150	<10	160	<0.5	18	0.02	<0.5	7	3	238
I027725		5.94	0.262		1.2	0.34	826	<10	30	<0.5	14	0.02	<0.5	3	4	310
I027726		4.08	0.720		4.2	0.37	564	<10	40	0.5	21	0.02	<0.5	6	2	1020
I027727		3.49	0.045		<0.2	0.21	29	<10	40	<0.5	<2	0.03	<0.5	1	3	62
I027728		3.72	0.005		<0.2	0.21	23	<10	40	<0.5	<2	0.03	<0.5	2	4	53
I027729		5.80	0.019		<0.2	0.22	405	<10	40	<0.5	<2	0.03	<0.5	5	6	73
I027730		0.43	<0.005		<0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	<1	<1	<1
I027731		5.67	0.046		0.3	0.24	1305	<10	70	<0.5	2	0.06	<0.5	8	7	136
I027732		5.95	0.031		<0.2	0.21	614	<10	70	<0.5	11	0.09	<0.5	7	6	92
I027733		5.34	0.005		<0.2	0.19	20	<10	50	<0.5	<2	0.04	<0.5	3	5	63
I027734		3.90	1.005		0.8	0.32	8250	<10	60	<0.5	54	0.13	0.6	69	2	345
I027735		4.35	0.456		0.8	0.33	460	<10	70	<0.5	20	0.14	<0.5	9	1	361
I027736		4.47	1.180		1.5	0.35	1415	<10	50	<0.5	56	0.16	<0.5	10	2	573
I027737		4.30	0.671		1.8	0.42	2480	<10	50	<0.5	63	0.11	<0.5	12	1	533
I027738		4.33	>10.0	11.35	7.3	0.41	2040	<10	30	<0.5	8000	0.03	<0.5	10	3	2000
I027739		0.36	0.010		<0.2	0.02	12	<10	20	<0.5	41	>25.0	<0.5	<1	<1	7
I027740		0.06	1.210		5.0	1.45	21	10	150	<0.5	7	0.89	<0.5	13	42	>10000
I027741		4.54	4.20		6.1	0.49	2470	<10	90	<0.5	128	0.03	0.8	5	4	1075
I027742		3.78	1.650		0.8	0.43	1020	<10	40	<0.5	21	0.09	0.9	10	3	373
I027743		4.20	0.562		2.0	0.72	7220	<10	20	0.7	17	0.18	3.8	51	15	781
I027744		0.38	<0.005		<0.2	0.04	32	<10	20	<0.5	2	>25.0	<0.5	<1	<1	10
I027745		4.11	0.095		0.2	1.72	233	<10	80	0.7	2	0.40	0.7	30	84	190
I027746		4.53	0.144		0.4	1.22	237	<10	40	<0.5	12	0.28	<0.5	28	46	242
I027747		7.02	0.040		0.2	1.61	77	<10	40	<0.5	2	0.65	<0.5	18	32	182

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
I027712		1.72	<10	<1	0.17	10	0.01	76	1	0.01	5	40	4	0.32	7	<1
I027713		1.25	<10	<1	0.20	10	0.02	74	1	0.03	2	50	3	0.26	8	<1
I027714		1.11	<10	<1	0.15	10	0.01	27	1	0.01	2	50	3	0.84	11	<1
I027715		1.26	<10	1	0.14	10	0.03	121	1	0.01	1	40	2	0.72	15	<1
I027716		1.67	<10	<1	0.17	10	0.04	149	1	0.01	1	40	4	0.82	9	<1
I027717		1.32	<10	1	0.14	10	0.03	98	1	0.03	2	50	3	0.75	9	<1
I027718		1.46	<10	<1	0.15	10	0.02	51	1	0.01	1	50	5	0.65	10	<1
I027719		1.44	<10	<1	0.15	20	0.03	124	1	0.04	2	40	3	0.58	3	<1
I027720		3.06	10	1	0.20	10	0.73	462	272	0.09	24	660	10	0.46	3	5
I027721		1.53	<10	<1	0.15	20	0.03	144	2	0.04	2	50	3	0.65	<2	<1
I027722		1.55	<10	<1	0.14	10	0.03	145	1	0.03	1	40	2	0.64	<2	<1
I027723		1.06	<10	<1	0.13	10	0.01	62	1	0.01	1	40	3	0.59	14	<1
I027724		1.28	<10	1	0.13	10	0.02	74	1	<0.01	2	40	5	0.83	18	<1
I027725		1.37	<10	<1	0.14	10	0.02	50	2	<0.01	1	40	3	1.10	11	<1
I027726		3.44	<10	<1	0.20	10	0.01	67	1	<0.01	2	50	5	2.45	78	<1
I027727		1.28	<10	1	0.14	20	0.02	92	1	0.04	2	50	3	0.59	<2	<1
I027728		1.14	<10	<1	0.13	20	0.02	142	2	0.05	1	40	4	0.50	<2	<1
I027729		1.26	<10	1	0.14	10	0.02	208	<1	0.04	1	40	3	0.65	<2	<1
I027730		0.09	<10	2	<0.01	<10	0.58	98	<1	0.01	<1	70	<2	<0.01	<2	<1
I027731		1.49	<10	<1	0.16	10	0.03	210	1	0.02	2	40	3	0.71	<2	<1
I027732		1.45	<10	1	0.15	10	0.03	107	1	0.03	2	40	3	0.75	<2	<1
I027733		1.34	<10	1	0.13	20	0.04	120	1	0.04	2	40	3	0.56	<2	<1
I027734		4.43	<10	<1	0.24	10	0.10	142	3	<0.01	6	460	4	3.18	12	<1
I027735		4.25	<10	1	0.25	10	0.16	145	1	<0.01	4	520	3	2.79	9	<1
I027736		3.85	<10	<1	0.26	10	0.22	198	2	<0.01	4	530	3	1.80	7	1
I027737		3.37	<10	1	0.29	10	0.10	81	1	<0.01	6	530	2	2.45	37	1
I027738		3.82	<10	<1	0.24	10	0.02	28	1	<0.01	3	130	69	4.11	204	<1
I027739		0.09	<10	2	0.01	<10	0.46	88	<1	0.01	<1	70	<2	0.01	<2	<1
I027740		3.46	<10	<1	0.14	10	0.65	512	498	0.11	36	560	9	0.98	2	5
I027741		2.10	<10	<1	0.28	10	0.02	29	1	0.01	2	170	4	1.03	18	1
I027742		2.21	<10	<1	0.19	10	0.03	52	2	0.01	6	150	3	1.51	9	2
I027743		10.10	<10	<1	0.25	10	0.83	359	1	0.01	28	640	2	6.14	23	10
I027744		0.21	<10	3	0.01	<10	0.52	93	<1	0.01	<1	80	2	0.06	<2	<1
I027745		7.56	10	1	0.88	10	1.55	755	<1	0.04	37	530	3	1.45	6	16
I027746		6.39	10	<1	0.34	20	1.16	411	<1	0.04	36	400	3	2.05	5	10
I027747		5.95	10	<1	0.72	20	1.59	450	<1	0.06	16	700	2	1.54	2	12

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
I027712		11	30	<0.01	<10	<10	1	<10	38	
I027713		12	20	<0.01	<10	<10	<1	<10	13	
I027714		7	20	<0.01	<10	10	<1	<10	18	
I027715		5	20	<0.01	<10	<10	<1	<10	12	
I027716		4	20	<0.01	<10	<10	<1	<10	17	
I027717		5	20	<0.01	<10	<10	<1	<10	11	
I027718		8	20	<0.01	<10	<10	<1	<10	16	
I027719		7	20	<0.01	<10	10	<1	<10	11	
I027720		46	<20	0.14	<10	<10	62	10	57	
I027721		6	20	<0.01	<10	10	<1	<10	15	
I027722		5	20	<0.01	<10	10	<1	<10	19	
I027723		5	20	<0.01	<10	<10	<1	<10	10	
I027724		5	20	<0.01	<10	<10	<1	<10	11	
I027725		5	20	<0.01	<10	10	<1	<10	9	
I027726		8	20	<0.01	<10	10	<1	<10	29	
I027727		6	20	<0.01	<10	10	<1	<10	12	
I027728		5	20	<0.01	<10	10	<1	<10	17	
I027729		5	20	<0.01	<10	10	<1	<10	17	
I027730		95	<20	<0.01	<10	<10	<1	<10	<2	
I027731		6	20	<0.01	<10	10	<1	<10	21	
I027732		6	20	<0.01	<10	10	<1	<10	16	
I027733		7	20	<0.01	<10	10	<1	<10	15	
I027734		5	<20	<0.01	<10	<10	1	<10	18	
I027735		10	<20	<0.01	<10	<10	2	<10	12	
I027736		8	<20	<0.01	<10	<10	3	<10	12	
I027737		21	<20	<0.01	<10	<10	3	<10	19	
I027738		7	<20	<0.01	<10	<10	2	<10	28	
I027739		96	<20	<0.01	<10	<10	<1	<10	<2	
I027740		48	<20	0.13	<10	<10	60	30	75	1.370
I027741		10	<20	<0.01	<10	<10	3	<10	16	
I027742		7	<20	<0.01	<10	<10	5	<10	20	
I027743		14	<20	0.01	<10	<10	80	<10	47	
I027744		86	<20	<0.01	<10	<10	1	<10	2	
I027745		8	<20	0.08	<10	<10	110	<10	66	
I027746		6	<20	0.03	<10	<10	71	<10	118	
I027747		13	<20	0.13	<10	<10	120	<10	35	

Comments: **Corrected copy for Au- AA23, ME- ICP41 on samples I027711 to I027747, for Au- GRA21 on sample I027738 and for Cu- OG46 on sample I027740**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173215

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au- AA23	Au- GRA21	Cu- OG46	ME- ICP41
	ME- OG46			

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17173219

Project: Freegold Mountain

P.O. No.: 1005139 - - NOFREG- - R1

This report is for 46 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E520651		7.32	0.046	0.7	0.90	63	<10	40	0.5	<2	0.07	<0.5	3	10	410	3.05
E520652		7.64	0.024	0.4	1.63	45	<10	50	0.5	4	0.20	<0.5	14	21	678	5.19
E520653		8.32	0.031	0.3	1.01	29	<10	20	<0.5	<2	0.15	<0.5	14	18	436	4.27
E520654		7.64	0.034	0.3	0.94	17	<10	30	<0.5	<2	0.13	<0.5	10	20	599	2.86
E520655		7.59	0.032	0.5	0.82	6	<10	20	<0.5	2	0.17	<0.5	9	10	614	3.41
E520656		7.41	0.045	0.7	0.79	21	<10	20	<0.5	6	0.15	<0.5	7	17	661	3.27
E520657		7.58	0.044	0.3	1.10	34	<10	30	<0.5	4	0.17	<0.5	11	38	704	3.97
E520658		7.61	0.039	0.7	0.51	27	<10	20	0.5	9	0.08	<0.5	5	7	520	2.77
E520659		7.50	0.068	0.4	0.79	35	<10	20	<0.5	3	0.08	<0.5	8	9	701	3.68
E520660		0.06	0.287	1.0	1.60	6	<10	130	<0.5	2	0.96	0.5	11	30	3330	3.22
E520661		7.22	0.139	0.2	0.96	40	<10	30	0.5	2	0.07	<0.5	8	6	469	3.96
E520662		7.02	0.108	0.3	1.44	57	<10	50	0.6	3	0.33	<0.5	12	12	1225	5.16
E520663		6.29	0.111	0.5	0.92	483	<10	250	0.9	5	0.06	<0.5	8	13	459	6.16
E520664		6.81	0.097	0.3	0.65	127	<10	140	0.7	4	0.04	<0.5	4	7	226	3.32
E520665		6.90	0.055	0.6	0.57	156	<10	80	0.6	5	0.03	<0.5	2	4	339	2.89
E520666		6.36	0.096	1.0	0.62	306	<10	200	1.0	20	0.04	<0.5	10	14	566	3.82
E520667		7.16	0.132	2.0	0.84	499	<10	30	0.9	368	0.08	<0.5	12	13	2720	4.53
E520668		6.98	0.040	0.6	1.04	202	<10	20	1.3	13	0.15	<0.5	21	17	6310	3.71
E520669		6.08	0.053	0.9	0.58	262	<10	10	1.1	6	0.22	<0.5	21	6	1770	3.43
E520670		0.43	<0.005	<0.2	0.03	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	11	0.12
E520671		8.75	0.049	0.6	0.54	118	<10	10	0.5	6	0.93	0.6	15	9	645	3.40
E520672		7.01	0.196	3.2	0.50	291	<10	10	<0.5	57	1.46	0.6	15	15	2400	4.16
E520673		8.67	0.032	0.7	0.44	254	<10	30	0.5	50	1.58	0.5	19	6	735	3.91
E520674		7.58	0.386	2.3	0.56	104	<10	30	0.5	19	0.98	<0.5	14	9	1815	3.70
E520675		7.95	0.363	5.3	1.78	20	<10	40	0.6	207	0.60	0.5	19	8	3660	5.96
E520676		7.37	0.135	2.4	1.69	64	<10	30	0.9	100	0.62	0.5	26	6	1850	7.01
E520677		6.44	0.064	1.1	0.90	165	<10	80	0.6	9	1.11	<0.5	12	5	843	3.93
E520678		7.22	0.105	0.5	0.64	200	<10	40	0.5	9	1.94	<0.5	11	6	572	4.11
E520679		7.22	0.172	3.2	0.64	1145	<10	50	0.5	4980	2.94	0.5	12	5	2600	5.16
E520680		0.06	0.662	5.2	1.30	30	10	50	<0.5	17	0.54	5.3	14	21	5410	6.06
E520681		7.12	0.182	2.4	1.19	891	<10	90	0.6	6360	1.14	<0.5	13	7	1915	4.97
E520682		7.14	0.333	2.6	1.48	244	<10	40	0.6	402	0.79	<0.5	9	13	2020	3.85
E520683		6.58	0.204	0.6	1.41	397	<10	40	0.5	6420	1.82	<0.5	9	15	465	3.08
E520684		7.99	0.042	0.2	1.52	136	<10	50	0.5	22	0.93	<0.5	7	16	304	3.59
E520685		8.44	0.051	0.5	1.58	77	<10	120	<0.5	242	1.12	<0.5	12	11	452	4.29
E520686		8.77	0.100	0.3	1.43	167	<10	60	<0.5	9	1.01	<0.5	5	10	244	2.65
E520687		8.88	0.051	0.4	2.28	57	<10	100	0.5	12	1.20	<0.5	13	35	341	5.29
E520688		9.92	0.044	0.5	1.53	84	<10	30	0.5	3	1.41	<0.5	15	17	554	5.11
E520689		9.85	0.057	0.7	1.70	47	<10	20	0.6	5	1.12	<0.5	18	32	931	5.83
E520690		0.43	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	3	0.10

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20651		<10	<1	0.31	30	0.38	57	<1	0.07	5	440	4	0.25	2	5	34
ES20652		10	<1	0.67	20	0.88	99	<1	0.08	11	780	2	0.81	<2	12	38
ES20653		10	<1	0.30	20	0.54	84	1	0.06	8	500	3	1.25	<2	9	14
ES20654		10	<1	0.26	10	0.45	63	<1	0.06	10	500	4	0.82	<2	6	17
ES20655		<10	<1	0.19	10	0.41	92	<1	0.06	5	470	4	1.39	<2	7	8
ES20656		<10	<1	0.22	10	0.35	85	<1	0.07	5	370	4	0.97	4	6	15
ES20657		10	1	0.31	20	0.52	90	<1	0.06	16	740	5	0.92	<2	7	25
ES20658		<10	<1	0.13	10	0.13	65	<1	0.08	6	320	5	0.66	2	4	14
ES20659		10	<1	0.22	10	0.32	91	1	0.07	7	320	3	0.99	<2	7	12
ES20660		10	<1	0.21	10	0.78	494	270	0.09	24	670	9	0.48	2	5	47
ES20661		10	<1	0.30	10	0.40	101	1	0.09	9	530	3	0.74	<2	9	18
ES20662		10	<1	0.48	10	0.64	125	1	0.07	11	870	4	0.98	2	14	15
ES20663		<10	<1	0.46	30	0.14	156	<1	0.02	7	1000	4	0.77	16	20	59
ES20664		<10	<1	0.27	30	0.02	73	1	0.01	6	760	2	0.56	5	11	99
ES20665		<10	<1	0.30	20	0.02	36	1	<0.01	4	690	4	0.39	8	9	13
ES20666		<10	<1	0.20	40	0.03	91	2	0.01	11	510	53	0.28	22	10	39
ES20667		<10	<1	0.14	20	0.03	60	2	<0.01	16	530	179	0.71	21	14	10
ES20668		<10	<1	0.10	20	0.12	343	2	<0.01	31	460	14	0.94	15	16	7
ES20669		<10	<1	0.13	10	0.16	675	2	<0.01	19	610	10	0.68	140	11	10
ES20670		<10	<1	<0.01	<10	0.97	120	<1	<0.01	<1	70	<2	0.01	<2	<1	89
ES20671		<10	<1	0.12	20	0.45	658	3	<0.01	13	730	5	0.59	39	14	21
ES20672		<10	<1	0.17	10	0.67	641	<1	<0.01	17	550	5	1.06	23	16	29
ES20673		<10	<1	0.14	20	0.61	454	2	<0.01	10	870	14	1.42	120	4	33
ES20674		<10	1	0.25	10	0.64	264	1	<0.01	10	460	4	1.20	19	12	21
ES20675		10	<1	1.23	10	1.79	209	18	0.03	11	590	7	1.94	8	25	27
ES20676		10	<1	0.81	10	1.44	334	1	<0.01	16	810	36	2.44	6	24	23
ES20677		10	<1	0.40	10	0.83	232	3	<0.01	14	700	4	1.08	6	18	30
ES20678		<10	<1	0.24	20	0.90	383	2	<0.01	13	720	4	0.83	37	21	35
ES20679		<10	1	0.28	10	1.19	579	2	<0.01	24	350	62	1.85	31	17	40
ES20680		<10	1	0.29	<10	0.39	746	125	0.03	16	500	110	4.23	2	2	38
ES20681		10	<1	0.78	40	1.27	261	1	0.01	26	620	82	1.85	45	16	30
ES20682		10	<1	0.93	30	1.44	202	<1	0.03	15	670	8	0.91	6	16	27
ES20683		10	<1	0.93	10	1.65	224	<1	0.02	9	520	53	0.66	43	12	48
ES20684		10	<1	0.99	10	1.42	177	1	0.04	8	760	3	0.81	4	17	35
ES20685		10	<1	0.86	10	1.46	191	1	0.04	8	790	6	1.22	2	17	50
ES20686		10	<1	0.87	10	1.24	206	<1	0.04	6	180	6	0.38	2	9	31
ES20687		10	<1	1.36	10	2.04	345	<1	0.05	16	960	19	1.00	<2	16	41
ES20688		10	<1	0.68	10	1.32	299	<1	0.08	10	1120	<2	1.48	<2	12	47
ES20689		10	<1	0.79	10	1.52	289	<1	0.10	21	1200	6	2.14	3	13	39
ES20690		<10	1	0.01	<10	1.04	137	<1	0.01	<1	70	<2	0.01	2	<1	79

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20651		<20	0.05	<10	<10	31	<10	17
ES20652		<20	0.17	<10	<10	98	<10	33
ES20653		<20	0.07	<10	<10	34	<10	15
ES20654		<20	0.04	<10	<10	34	<10	19
ES20655		<20	0.06	<10	<10	23	<10	18
ES20656		<20	0.04	<10	<10	38	<10	20
ES20657		<20	0.07	<10	<10	40	<10	26
ES20658		<20	<0.01	<10	<10	10	<10	20
ES20659		<20	0.03	<10	<10	23	<10	20
ES20660		<20	0.14	<10	<10	64	10	59
ES20661		<20	0.04	<10	<10	37	<10	23
ES20662		<20	0.15	<10	<10	100	<10	34
ES20663		<20	0.02	<10	10	75	<10	29
ES20664		<20	<0.01	<10	<10	27	<10	19
ES20665		<20	<0.01	<10	<10	21	<10	12
ES20666		<20	<0.01	<10	<10	35	<10	50
ES20667		<20	<0.01	<10	<10	46	<10	49
ES20668		<20	<0.01	<10	<10	54	<10	48
ES20669		<20	<0.01	<10	<10	33	<10	79
ES20670		<20	<0.01	<10	<10	<1	<10	<2
ES20671		<20	<0.01	<10	<10	48	<10	54
ES20672		<20	<0.01	<10	<10	71	<10	67
ES20673		<20	<0.01	<10	<10	28	<10	42
ES20674		<20	0.02	<10	<10	70	<10	41
ES20675		<20	0.17	<10	<10	177	<10	59
ES20676		<20	0.10	<10	<10	155	<10	48
ES20677		<20	0.02	<10	<10	102	<10	27
ES20678		<20	0.01	<10	<10	108	<10	25
ES20679		<20	0.01	10	<10	74	<10	47
ES20680		<20	0.03	<10	<10	24	<10	857
ES20681		<20	0.04	<10	<10	98	90	42
ES20682		<20	0.08	<10	<10	102	180	40
ES20683		<20	0.07	<10	<10	80	10	30
ES20684		<20	0.12	<10	<10	90	<10	24
ES20685		<20	0.13	<10	<10	85	<10	22
ES20686		<20	0.06	<10	<10	63	<10	25
ES20687		<20	0.19	<10	<10	130	<10	78
ES20688		<20	0.12	<10	<10	113	10	29
ES20689		<20	0.14	<10	<10	119	<10	37
ES20690		<20	<0.01	<10	<10	<1	<10	<2

***** See Appendix Page for comments regarding this certificate *****

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ES20691		8.22	0.043	0.5	1.26	234	<10	20	0.5	8	1.35	0.5	15	51	555	4.73
ES20692		7.09	0.039	0.3	1.31	30	<10	30	<0.5	5	1.62	<0.5	15	64	405	4.40
ES20693		6.04	0.204	0.7	1.87	67	<10	50	0.6	9	1.73	1.6	14	99	591	5.68
ES20694		4.08	0.066	5.8	1.19	74	<10	10	<0.5	18	0.37	7.6	149	929	5170	28.9
ES20695		4.00	0.038	0.6	1.90	17	<10	40	<0.5	5	0.70	<0.5	14	48	608	5.00
ES20696		6.65	0.089	1.3	1.91	15	<10	40	<0.5	95	0.94	<0.5	20	31	1180	5.48

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
ES20691		10	<1	0.57	10	1.38	268	1	0.04	30	930	8	1.76	<2	10	35
ES20692		10	<1	0.61	10	1.40	304	1	0.10	60	1070	4	1.26	<2	10	55
ES20693		10	<1	1.12	10	2.13	404	2	0.07	96	630	21	1.17	<2	14	59
ES20694		10	<1	0.53	<10	1.81	465	<1	0.01	2310	40	44	>10.0	<2	7	15
ES20695		10	<1	1.18	20	1.83	230	4	0.05	31	920	10	1.15	<2	14	24
ES20696		10	<1	0.99	10	1.85	276	2	0.07	20	570	2	1.64	<2	16	28

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20691		<20	0.08	<10	<10	94	<10	56
ES20692		<20	0.16	<10	<10	110	<10	35
ES20693		<20	0.12	<10	<10	108	<10	185
ES20694		<20	0.01	<10	<10	34	230	934
ES20695		<20	0.17	<10	<10	121	20	41
ES20696		<20	0.15	<10	<10	139	10	56

***** See Appendix Page for comments regarding this certificate *****

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17173219

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17178274

Project: NOFREG_WH17154695rej

This report is for 19 Reject samples submitted to our lab in Whitehorse, YT, Canada on 23- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 25	Wt. of Crushed Reject
PUL- 35	Pulv 250 g Split to 95%< 106 um
FND- 03	Find Reject for Addn Analysis
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
Au- AA23	Au 30g FA- AA finish	AAS

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Re- analysis results for samples originally reported on WH17154695**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: NOFREG_WH17154695rej

CERTIFICATE OF ANALYSIS WH17178274

Sample Description	Method / Analyte / Units / LOR	WEI- 25 Reject W kg 0.001	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05
I026898		5.62	0.014	
I026899		3.76	0.008	
I026900		<0.001	NSS	
I026901		5.00	0.007	
I026902		5.08	0.008	
I026903		5.22	<0.005	
I026904		2.55	<0.005	
I026905		<0.001	NSS	
I026906		2.77	>10.0	81.3
I026907		<0.001	NSS	
I026908		2.04	4.00	
I026909		<0.001	NSS	
I026910		3.35	1.015	
I026911		5.05	6.62	
I026912		5.84	2.35	
I026913		4.90	0.044	
I026914		6.25	0.020	
G286251		<0.001	NSS	
G286252		<0.001	NSS	

Comments: **Re- analysis results for samples originally reported on WH17154695**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: NOFREG_WH17154695rej

CERTIFICATE OF ANALYSIS WH17178274

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non- sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method: FND- 03 LOG- 22 PUL- 35 SPL- 21
WEI- 25

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method: Au- AA23 Au- GRA21

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17180243

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- R1

This report is for 183 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E520781		5.43	0.059	5.2	0.48	2200	<10	80	0.7	52	3.77	1.8	8	8	394	3.75
E520782		5.34	0.057	0.5	1.30	900	<10	100	0.5	3	1.24	0.7	10	20	232	3.98
E520783		4.85	0.023	0.2	1.21	282	<10	70	0.5	<2	0.90	<0.5	7	44	123	2.72
E520784		6.83	0.034	<0.2	1.27	110	<10	40	0.5	<2	1.24	<0.5	6	45	92	2.52
E520785		6.57	0.031	<0.2	1.28	84	<10	40	0.5	<2	1.26	<0.5	5	56	77	2.38
E520786		6.65	0.099	0.2	1.20	178	<10	60	<0.5	10	1.30	<0.5	4	52	175	2.15
E520787		6.19	0.020	<0.2	1.20	94	<10	50	0.5	12	1.01	<0.5	4	42	43	2.06
E520788		6.73	0.033	0.2	1.26	24	<10	40	0.5	4	1.01	<0.5	6	49	81	2.19
E520789		6.52	0.026	<0.2	1.10	24	<10	30	0.5	<2	1.07	<0.5	4	42	62	1.97
E520790		0.49	0.007	<0.2	0.02	<2	<10	10	<0.5	5	>25.0	<0.5	<1	1	1	0.10
E520791		6.52	0.056	<0.2	1.77	43	<10	80	0.5	2	1.09	<0.5	7	43	106	3.13
E520792		6.64	0.097	0.2	1.81	257	<10	130	<0.5	7	0.72	0.6	12	56	158	3.91
E520793		6.19	0.018	<0.2	1.94	12	<10	150	<0.5	<2	0.66	<0.5	11	51	150	4.02
E520794		6.83	0.006	<0.2	2.21	22	<10	180	<0.5	<2	0.70	<0.5	16	25	135	4.83
E520795		6.33	0.007	<0.2	2.19	19	<10	140	<0.5	<2	0.70	<0.5	15	28	138	4.48
E520796		6.20	0.026	<0.2	1.48	167	<10	60	<0.5	3	0.61	<0.5	9	37	180	3.18
E520797		7.19	0.016	<0.2	1.56	7	<10	160	<0.5	<2	0.46	<0.5	10	44	161	3.44
E520798		6.93	0.025	0.2	2.05	8	<10	100	<0.5	2	0.42	<0.5	11	31	167	4.18
E520799		5.68	0.017	0.3	2.02	13	<10	80	<0.5	<2	0.37	<0.5	11	33	226	4.16
E520800		0.08	0.331	0.9	1.43	6	<10	110	<0.5	2	0.83	<0.5	10	25	3110	2.99
E520801		7.26	0.225	0.5	2.77	92	<10	200	0.6	2	0.22	<0.5	8	80	625	5.36
E520802		8.74	0.091	0.2	2.66	213	<10	200	1.1	3	0.23	<0.5	10	75	516	6.31
E520803		8.85	0.048	0.3	2.19	479	<10	70	2.3	3	0.30	<0.5	18	58	800	8.14
E520804		7.24	0.075	0.6	2.68	415	<10	40	1.9	26	0.33	<0.5	14	89	957	8.69
E520805		8.12	0.043	0.4	1.71	184	<10	40	1.0	2	0.41	<0.5	7	36	607	4.94
E520806		9.31	0.043	0.2	1.38	90	<10	40	<0.5	2	0.48	<0.5	5	39	463	3.65
E520807		9.82	0.035	0.2	1.84	61	<10	300	<0.5	2	0.42	<0.5	7	89	564	3.54
E520808		9.44	0.017	0.2	1.53	69	<10	180	<0.5	2	0.41	<0.5	6	52	625	3.74
E520809		9.20	0.042	0.3	1.39	240	<10	50	0.8	2	0.34	<0.5	6	50	704	5.62
E520810		0.38	<0.005	<0.2	0.03	5	<10	20	<0.5	3	>25.0	<0.5	<1	1	11	0.18
E520811		9.26	0.015	0.3	1.72	29	<10	80	<0.5	3	0.39	<0.5	6	89	435	3.40
E520812		10.38	0.265	1.0	1.66	61	<10	40	0.5	6	0.33	<0.5	7	56	562	4.19
E520813		10.54	0.085	0.9	1.51	52	<10	30	0.6	3	0.45	<0.5	16	24	982	3.94
E520814		11.89	0.089	0.4	1.68	49	<10	30	0.6	4	0.70	<0.5	14	20	441	4.55
E520815		10.73	0.059	0.2	1.58	19	<10	50	<0.5	3	0.79	<0.5	20	21	299	3.99
E520816		10.68	0.039	0.3	1.65	234	<10	50	0.5	3	0.72	<0.5	25	23	438	4.69
E520817		10.88	0.058	0.5	1.15	27	<10	50	<0.5	3	0.26	<0.5	13	11	510	2.82
E520818		10.21	0.046	0.4	1.06	59	<10	100	<0.5	4	0.22	<0.5	9	16	346	2.84
E520819		10.07	0.036	0.5	2.37	7	<10	120	<0.5	5	0.57	<0.5	21	61	542	4.72
E520820		0.07	0.267	1.0	1.50	5	<10	120	<0.5	4	0.89	0.5	12	28	3200	3.08

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20781		<10	<1	0.15	10	1.44	359	3	0.01	12	390	86	0.95	41	9	143
ES20782		10	<1	0.70	10	1.18	221	11	0.06	14	420	65	0.78	8	13	51
ES20783		10	<1	0.47	20	0.79	138	1	0.05	23	530	17	0.64	5	8	25
ES20784		10	<1	0.34	20	0.71	178	3	0.04	26	640	23	0.52	<2	6	32
ES20785		10	<1	0.36	20	0.81	128	2	0.04	25	640	9	0.47	2	8	33
ES20786		10	<1	0.41	20	0.74	125	9	0.05	24	670	19	0.43	<2	8	34
ES20787		10	<1	0.43	20	0.63	123	1	0.04	21	540	10	0.31	<2	6	28
ES20788		10	<1	0.33	20	0.70	112	1	0.04	26	630	7	0.32	<2	6	23
ES20789		10	<1	0.25	20	0.63	129	1	0.04	23	580	8	0.37	<2	5	24
ES20790		<10	<1	0.01	<10	0.76	123	<1	0.01	<1	60	<2	0.01	<2	<1	82
ES20791		10	<1	0.70	20	1.05	179	3	0.08	19	540	11	0.59	<2	12	37
ES20792		10	<1	0.95	10	1.19	151	5	0.09	23	640	13	0.75	3	14	19
ES20793		10	<1	1.06	20	1.33	160	3	0.08	20	690	3	0.70	<2	16	26
ES20794		10	<1	1.41	10	1.74	218	6	0.07	10	490	4	0.80	<2	18	32
ES20795		10	<1	1.41	10	1.71	179	2	0.08	12	460	3	0.64	<2	18	31
ES20796		10	<1	0.75	10	1.19	120	3	0.07	13	460	5	0.68	<2	12	18
ES20797		10	<1	0.83	10	1.11	119	2	0.08	16	440	5	0.71	<2	11	17
ES20798		10	<1	1.37	10	1.73	136	2	0.09	10	620	4	0.59	<2	16	15
ES20799		10	<1	1.48	10	1.74	144	8	0.09	12	430	3	0.60	<2	17	17
ES20800		<10	<1	0.19	10	0.68	428	234	0.09	22	620	9	0.46	3	4	39
ES20801		10	<1	1.17	20	1.27	163	2	0.05	20	620	2	0.01	<2	15	25
ES20802		10	<1	1.26	20	1.30	138	2	0.04	25	720	4	0.01	<2	14	24
ES20803		10	<1	0.62	30	0.95	127	3	0.03	50	940	6	0.04	2	12	46
ES20804		10	<1	0.54	20	1.01	145	1	0.03	49	1030	5	0.01	<2	17	43
ES20805		10	<1	0.42	20	0.75	122	1	0.09	19	660	3	0.09	<2	12	82
ES20806		10	<1	0.43	10	0.73	116	1	0.10	14	570	3	0.10	<2	9	89
ES20807		10	<1	0.80	10	1.16	128	1	0.09	32	640	<2	0.07	<2	8	54
ES20808		10	1	0.59	10	1.00	120	1	0.08	15	620	3	0.10	<2	9	54
ES20809		10	1	0.55	10	0.79	99	1	0.07	19	750	2	0.11	<2	9	44
ES20810		<10	<1	0.01	<10	1.06	137	<1	0.02	<1	80	<2	0.03	<2	<1	79
ES20811		10	<1	0.81	10	1.07	96	2	0.08	25	770	<2	0.13	<2	8	30
ES20812		10	<1	0.55	10	0.98	77	1	0.10	20	870	2	0.21	<2	11	32
ES20813		10	<1	0.35	10	0.82	108	2	0.08	26	990	4	0.59	<2	9	28
ES20814		10	<1	0.53	10	1.05	189	1	0.10	19	1310	5	0.45	<2	11	42
ES20815		10	<1	0.42	10	0.98	273	<1	0.13	19	1270	<2	0.64	<2	9	32
ES20816		10	<1	0.44	10	0.96	341	<1	0.12	22	1180	3	0.93	<2	10	39
ES20817		10	<1	0.38	20	0.63	121	1	0.09	9	470	2	0.69	<2	7	18
ES20818		<10	<1	0.51	30	0.58	120	2	0.08	8	430	7	0.33	<2	7	19
ES20819		10	<1	1.19	10	1.57	217	1	0.13	29	830	4	0.83	<2	14	38
ES20820		10	<1	0.19	10	0.72	465	251	0.08	24	640	10	0.46	3	5	45

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20781		<20	<0.01	<10	<10	38	<10	224
ES20782		<20	0.08	<10	<10	76	<10	111
ES20783		<20	0.07	<10	<10	75	<10	22
ES20784		<20	0.03	<10	<10	72	<10	49
ES20785		<20	0.06	<10	<10	93	<10	17
ES20786		<20	0.05	<10	<10	86	<10	28
ES20787		<20	0.05	<10	<10	68	<10	17
ES20788		<20	0.04	<10	<10	78	<10	16
ES20789		<20	0.02	<10	<10	61	<10	18
ES20790		<20	<0.01	<10	<10	<1	<10	2
ES20791		<20	0.11	<10	<10	103	<10	33
ES20792		<20	0.17	<10	<10	129	<10	83
ES20793		<20	0.18	<10	<10	134	<10	31
ES20794		<20	0.19	<10	<10	124	<10	24
ES20795		<20	0.20	<10	<10	129	<10	22
ES20796		<20	0.11	<10	<10	106	<10	19
ES20797		<20	0.15	<10	<10	105	<10	18
ES20798		<20	0.19	<10	<10	126	<10	22
ES20799		<20	0.21	<10	<10	128	<10	29
ES20800		<20	0.12	<10	<10	55	10	54
ES20801		<20	0.19	<10	<10	139	<10	39
ES20802		<20	0.18	<10	<10	136	<10	45
ES20803		<20	0.09	<10	<10	101	<10	70
ES20804		<20	0.09	<10	<10	141	<10	76
ES20805		<20	0.16	<10	<10	109	<10	43
ES20806		<20	0.16	<10	<10	96	<10	32
ES20807		<20	0.18	<10	<10	107	10	32
ES20808		<20	0.18	<10	<10	130	<10	35
ES20809		<20	0.12	<10	<10	102	<10	40
ES20810		<20	<0.01	<10	<10	1	<10	3
ES20811		<20	0.16	<10	<10	122	<10	31
ES20812		<20	0.17	<10	<10	115	<10	37
ES20813		<20	0.13	<10	<10	94	<10	42
ES20814		<20	0.19	<10	<10	121	10	42
ES20815		<20	0.17	<10	<10	99	<10	33
ES20816		<20	0.15	<10	<10	102	<10	40
ES20817		<20	0.08	<10	<10	57	<10	19
ES20818		20	0.10	<10	<10	61	<10	20
ES20819		<20	0.20	<10	<10	119	<10	31
ES20820		<20	0.13	<10	<10	60	10	57

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ES20821		7.25	0.126	0.5	1.55	102	<10	110	0.5	7	0.18	<0.5	16	33	517	3.61
ES20822		8.71	0.088	0.7	1.93	22	<10	100	<0.5	50	0.80	<0.5	18	22	438	4.71
ES20823		9.16	0.169	0.8	2.07	79	<10	90	<0.5	35	0.54	<0.5	19	23	772	5.13
ES20824		10.26	0.012	0.4	1.07	8	<10	50	<0.5	8	0.26	<0.5	11	13	311	2.53
ES20825		10.69	0.026	0.3	1.46	16	<10	110	<0.5	5	0.39	<0.5	16	21	334	3.72
ES20826		7.35	0.022	0.2	1.15	8	<10	80	<0.5	4	0.38	<0.5	9	14	153	2.81
ES20827		6.63	0.120	0.2	1.12	15	<10	40	<0.5	3	0.33	<0.5	12	9	252	2.61
ES20828		6.34	0.033	0.5	1.50	11	<10	50	<0.5	2	0.37	<0.5	13	21	386	3.78
ES20829		6.20	0.058	0.4	2.15	21	<10	120	<0.5	4	0.47	<0.5	20	26	476	5.62
ES20830		0.38	<0.005	<0.2	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	1	<1	3	0.09
ES20831		6.66	0.007	0.2	1.62	11	<10	70	<0.5	4	0.77	<0.5	11	28	147	3.69
ES20832		6.14	0.025	0.3	1.28	7	<10	40	<0.5	3	0.66	<0.5	11	16	311	2.99
ES20833		6.70	0.044	0.2	1.38	26	<10	60	<0.5	3	0.87	<0.5	17	19	298	3.97
ES20834		6.53	<0.005	<0.2	1.15	199	<10	90	<0.5	2	0.65	<0.5	9	19	73	2.66
ES20835		7.10	0.058	0.2	1.70	31	<10	40	<0.5	2	1.04	<0.5	16	20	247	4.08
ES20836		6.46	0.022	<0.2	1.39	22	<10	40	<0.5	3	0.78	<0.5	7	27	102	2.91
ES20837		5.62	0.083	0.6	1.76	36	<10	30	<0.5	2	0.58	<0.5	13	52	517	4.23
ES20838		5.04	0.032	0.3	0.90	40	<10	10	<0.5	2	0.86	<0.5	8	10	233	2.43
ES20839		6.62	0.073	0.5	1.11	48	<10	20	0.7	3	0.75	<0.5	12	10	365	3.42
ES20840		0.08	0.286	0.9	1.50	4	<10	120	<0.5	<2	0.88	<0.5	12	28	3190	3.08
ES20841		6.39	0.075	0.6	1.33	37	<10	60	0.8	2	0.81	<0.5	18	19	573	4.30
ES20842		7.10	0.024	0.5	1.14	38	<10	50	0.6	2	0.84	2.1	11	32	215	3.37
ES20843		5.44	0.013	0.2	1.11	46	<10	20	0.8	2	0.82	<0.5	12	11	193	3.02
ES20844		7.43	0.021	<0.2	1.09	13	<10	30	<0.5	4	0.78	<0.5	10	25	215	3.01
ES20845		6.45	0.025	0.7	0.90	48	<10	60	<0.5	68	0.68	<0.5	9	14	325	2.81
ES20846		6.26	0.048	0.4	0.83	147	<10	40	<0.5	11	0.67	<0.5	10	11	354	2.86
ES20847		5.73	0.011	0.3	1.14	58	<10	60	0.5	11	0.79	0.7	11	11	249	3.20
ES20848		7.23	0.007	0.4	1.94	20	<10	140	0.6	31	0.94	<0.5	12	42	213	3.53
ES20849		6.54	0.054	<0.2	1.47	25	<10	90	0.9	5	1.31	<0.5	12	18	187	3.48
ES20850		0.42	<0.005	<0.2	0.04	<2	<10	10	<0.5	3	>25.0	<0.5	<1	1	2	0.10
ES20851		6.59	0.042	0.3	0.55	70	<10	30	<0.5	20	0.87	0.5	6	10	305	2.18
ES20852		4.20	0.040	0.3	1.25	27	<10	40	0.8	4	0.85	<0.5	9	13	253	3.11
ES20853		4.48	0.043	0.9	0.72	69	<10	30	0.6	10	0.85	0.6	12	3	711	2.73
ES20854		3.69	0.335	0.4	0.80	65	<10	20	0.7	8	0.96	<0.5	9	4	325	1.93
ES20855		5.85	0.019	0.4	0.60	37	<10	40	0.5	15	1.09	<0.5	8	4	324	2.20
ES20856		5.68	0.023	0.3	0.50	56	<10	40	<0.5	30	1.60	0.6	5	4	301	1.95
ES20857		6.74	0.027	0.7	0.56	170	<10	30	0.5	22	1.42	0.9	9	4	525	2.47
ES20858		4.71	0.049	0.9	0.54	80	<10	30	<0.5	36	1.38	0.8	8	4	561	2.31
ES20859		3.61	0.143	2.3	1.32	31	<10	20	0.8	321	1.12	1.0	16	11	973	4.11
ES20860		0.07	0.760	4.9	1.33	26	<10	60	<0.5	<2	0.55	4.9	14	21	5250	6.04

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20821		10	1	0.80	50	0.94	129	3	0.06	23	480	3	0.66	4	9	21
ES20822		10	<1	1.08	10	1.50	312	<1	0.12	14	1100	17	0.70	<2	12	19
ES20823		10	1	1.21	10	1.62	225	1	0.08	17	1180	4	1.04	<2	16	17
ES20824		10	<1	0.40	10	0.76	133	<1	0.08	8	370	5	0.68	<2	6	9
ES20825		10	<1	0.82	10	1.19	222	5	0.08	11	700	4	0.79	<2	11	12
ES20826		10	<1	0.58	10	0.86	159	1	0.08	6	480	3	0.54	<2	7	11
ES20827		10	1	0.44	10	0.82	127	1	0.08	7	560	2	0.63	<2	7	10
ES20828		10	<1	0.74	10	1.20	143	1	0.08	9	590	2	0.97	2	9	9
ES20829		10	<1	1.35	10	1.75	238	2	0.07	13	740	3	1.36	<2	15	14
ES20830		<10	<1	0.01	<10	0.89	136	<1	<0.01	1	80	<2	0.01	2	<1	80
ES20831		10	<1	0.96	10	1.29	203	<1	0.08	9	700	2	0.53	<2	11	17
ES20832		10	<1	0.54	10	0.98	126	1	0.09	7	530	3	0.74	<2	8	13
ES20833		10	<1	0.68	20	1.10	218	1	0.08	10	640	2	1.03	<2	9	23
ES20834		10	<1	0.68	20	0.86	201	1	0.08	7	470	<2	0.28	<2	8	21
ES20835		10	<1	0.86	10	1.45	226	1	0.11	10	560	2	0.97	<2	11	32
ES20836		10	1	0.81	20	1.16	163	2	0.08	10	450	2	0.31	<2	8	25
ES20837		10	1	1.01	20	1.52	192	2	0.06	11	740	3	0.96	<2	14	23
ES20838		<10	<1	0.25	20	0.71	136	1	0.06	6	300	<2	0.60	<2	5	26
ES20839		10	<1	0.22	20	0.76	270	3	0.01	12	600	4	0.79	<2	11	31
ES20840		10	<1	0.19	10	0.71	461	259	0.08	24	640	9	0.46	<2	5	44
ES20841		10	1	0.50	20	1.08	233	1	0.02	17	540	5	1.35	<2	13	44
ES20842		10	<1	0.43	10	1.07	308	1	0.04	11	610	62	0.66	<2	10	35
ES20843		<10	<1	0.29	20	0.82	238	2	0.02	10	490	6	0.63	<2	7	49
ES20844		10	<1	0.52	10	0.86	164	1	0.06	8	470	5	0.68	<2	7	26
ES20845		<10	1	0.36	60	0.65	219	1	0.05	6	400	51	0.62	<2	6	28
ES20846		<10	1	0.35	60	0.62	186	<1	0.05	7	450	10	0.82	2	6	27
ES20847		10	<1	0.48	60	0.82	219	1	0.05	7	480	24	0.67	<2	6	35
ES20848		10	<1	1.12	40	1.24	251	5	0.05	19	350	26	0.36	<2	10	35
ES20849		10	1	0.71	40	0.94	241	1	0.05	10	460	5	0.55	<2	9	52
ES20850		<10	1	0.01	<10	0.95	110	<1	0.01	<1	60	<2	0.01	<2	<1	77
ES20851		<10	<1	0.20	20	0.51	136	1	0.06	5	360	23	0.60	4	5	32
ES20852		<10	<1	0.48	40	0.86	215	1	0.02	8	510	14	0.63	3	8	41
ES20853		<10	<1	0.13	50	0.43	301	1	0.01	7	410	17	0.84	9	6	34
ES20854		<10	<1	0.16	30	0.40	320	16	<0.01	7	710	14	0.41	17	3	26
ES20855		<10	<1	0.17	30	0.50	318	19	0.01	6	690	30	0.49	10	3	43
ES20856		<10	<1	0.19	30	0.63	291	19	0.01	4	650	46	0.39	9	3	74
ES20857		<10	<1	0.20	30	0.58	310	7	0.01	7	640	57	0.85	21	3	69
ES20858		<10	1	0.21	30	0.58	265	12	0.01	6	620	79	0.71	18	3	77
ES20859		10	<1	0.32	20	0.97	434	1	<0.01	9	830	248	1.13	11	12	39
ES20860		<10	<1	0.31	<10	0.39	727	122	0.04	17	510	112	4.31	2	2	38

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
ES20821		<20	0.12	<10	<10	77	<10	31
ES20822		<20	0.26	<10	<10	133	<10	34
ES20823		<20	0.24	<10	<10	144	<10	34
ES20824		<20	0.07	<10	<10	50	<10	17
ES20825		<20	0.16	<10	<10	79	<10	29
ES20826		<20	0.12	<10	<10	58	<10	16
ES20827		<20	0.08	<10	<10	56	<10	16
ES20828		<20	0.14	<10	<10	82	<10	16
ES20829		<20	0.24	<10	<10	124	40	27
ES20830		<20	<0.01	<10	<10	1	<10	<2
ES20831		<20	0.19	<10	<10	86	<10	21
ES20832		<20	0.10	<10	<10	60	<10	16
ES20833		<20	0.16	<10	<10	83	10	20
ES20834		<20	0.11	<10	<10	55	<10	18
ES20835		<20	0.13	<10	<10	87	<10	23
ES20836		<20	0.12	<10	<10	59	<10	16
ES20837		<20	0.14	<10	<10	91	<10	28
ES20838		<20	0.04	<10	<10	36	<10	12
ES20839		<20	0.01	<10	<10	51	<10	16
ES20840		<20	0.13	<10	<10	60	10	56
ES20841		<20	0.05	<10	<10	79	<10	29
ES20842		<20	0.05	<10	<10	60	<10	236
ES20843		<20	0.03	<10	<10	45	<10	27
ES20844		<20	0.07	<10	<10	53	<10	22
ES20845		20	0.05	<10	<10	41	<10	40
ES20846		20	0.05	<10	<10	43	<10	28
ES20847		20	0.07	<10	<10	47	<10	77
ES20848		<20	0.16	<10	<10	64	<10	36
ES20849		<20	0.10	<10	<10	64	<10	21
ES20850		<20	<0.01	<10	<10	1	<10	<2
ES20851		<20	0.02	<10	<10	24	<10	54
ES20852		<20	0.06	<10	<10	51	<10	33
ES20853		20	<0.01	<10	<10	13	<10	73
ES20854		<20	<0.01	<10	<10	15	<10	56
ES20855		<20	<0.01	<10	<10	14	<10	56
ES20856		<20	<0.01	<10	<10	11	<10	48
ES20857		<20	<0.01	<10	<10	12	<10	99
ES20858		<20	<0.01	<10	<10	11	<10	78
ES20859		<20	0.03	<10	<10	68	<10	86
ES20860		<20	0.03	<10	<10	24	<10	844

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ES20861		6.83	0.038	0.8	0.84	23	<10	20	0.6	13	0.96	<0.5	19	6	726	4.09
ES20862		6.07	0.054	0.9	0.90	166	<10	100	1.1	10	1.89	0.6	14	17	667	4.06
ES20863		7.18	0.020	0.2	0.55	70	<10	40	0.6	<2	1.56	<0.5	6	9	209	2.42
ES20864		6.33	0.032	0.2	0.48	35	<10	60	0.5	4	0.98	<0.5	3	3	224	1.21
ES20865		6.32	0.017	0.3	0.33	14	<10	50	<0.5	4	0.92	<0.5	4	6	309	1.44
ES20866		6.45	0.027	0.2	0.35	12	<10	30	0.6	9	1.20	<0.5	3	6	226	1.66
ES20867		6.45	0.021	0.3	0.31	8	<10	30	<0.5	7	0.82	<0.5	4	6	267	1.40
ES20868		5.88	0.035	0.6	0.40	219	<10	20	0.5	4	1.22	<0.5	9	4	570	2.42
ES20869		6.14	0.048	1.1	0.30	18	<10	30	0.5	11	1.02	<0.5	7	7	949	2.31
ES20870		0.47	<0.005	<0.2	0.03	<2	<10	10	<0.5	3	>25.0	<0.5	<1	1	3	0.12
ES20871		6.36	0.056	0.5	0.35	9	<10	30	0.5	6	1.04	<0.5	6	9	475	1.89
ES20872		6.61	0.043	0.3	0.80	55	<10	40	0.6	7	0.94	<0.5	6	18	312	2.09
ES20873		5.09	0.053	0.3	1.41	18	<10	90	0.6	2	1.44	0.6	7	15	222	3.71
ES20874		4.63	0.017	0.3	0.36	14	<10	90	<0.5	3	1.35	<0.5	5	6	329	1.68
ES20875		6.69	0.016	0.3	0.44	25	<10	110	0.5	3	1.00	<0.5	5	10	235	1.70
ES20876		6.12	0.034	0.3	0.48	52	<10	100	<0.5	<2	0.97	<0.5	6	4	302	1.57
ES20877		6.94	0.028	0.3	0.46	339	<10	230	<0.5	<2	1.61	<0.5	5	4	256	1.95
ES20878		3.81	0.109	0.4	0.40	59	<10	80	<0.5	<2	0.76	<0.5	10	7	328	2.36
ES20879		4.63	0.900	0.5	1.06	22	<10	50	0.5	17	1.71	<0.5	14	19	497	4.63
ES20880		0.07	0.288	0.8	1.54	4	<10	120	<0.5	<2	0.95	<0.5	11	28	3060	3.05
ES20881		6.71	0.028	0.2	0.76	35	<10	60	0.6	<2	1.82	<0.5	10	13	293	3.58
ES20882		7.05	0.069	0.4	1.30	42	<10	40	0.9	2	2.25	<0.5	14	32	457	5.12
ES20883		6.82	0.203	0.7	1.04	48	<10	50	1.0	2	3.45	<0.5	13	12	682	4.88
ES20884		6.53	0.039	0.4	1.28	14	<10	50	0.6	5	1.91	<0.5	14	19	381	4.29
ES20885		6.81	0.041	0.2	1.18	58	<10	50	1.8	2	3.01	<0.5	13	12	286	5.01
ES20886		7.26	0.023	0.3	1.78	29	<10	80	0.9	2	2.30	<0.5	17	68	224	4.31
ES20887		7.45	0.018	0.2	1.90	8	<10	80	<0.5	<2	1.59	<0.5	15	75	162	4.01
ES20888		7.25	0.081	0.2	1.60	76	<10	50	0.7	4	2.42	0.7	13	84	239	4.10
ES20889		5.61	0.015	0.2	0.65	169	<10	80	0.5	<2	1.67	<0.5	8	8	154	2.45
ES20890		0.41	<0.005	<0.2	0.03	<2	<10	10	<0.5	3	>25.0	<0.5	<1	1	1	0.08
ES20891		7.10	0.033	0.5	1.84	8	<10	180	<0.5	17	0.65	<0.5	12	51	244	3.44
ES20892		6.59	0.137	0.2	2.02	141	<10	130	0.5	<2	1.09	<0.5	13	43	180	3.42
ES20893		6.28	0.009	<0.2	1.73	17	<10	240	<0.5	<2	0.74	<0.5	14	42	144	3.74
ES20894		6.89	0.013	0.3	2.44	5	<10	190	<0.5	3	1.16	<0.5	24	70	309	5.34
ES20895		7.46	0.018	0.2	2.01	2	<10	330	<0.5	5	0.99	<0.5	17	74	168	4.14
ES20896		7.18	0.209	0.7	2.42	3	<10	320	<0.5	41	0.97	<0.5	19	116	300	4.59
ES20897		7.57	0.037	0.6	1.84	4	<10	170	<0.5	3	1.10	<0.5	17	63	448	4.30
ES20898		7.21	0.042	0.5	2.10	6	<10	90	<0.5	2	1.22	<0.5	23	89	431	5.44
ES20899		7.54	0.048	0.3	2.17	9	<10	250	<0.5	2	1.31	<0.5	18	72	229	5.00
ES20900		0.07	0.252	1.2	1.52	4	<10	120	<0.5	<2	0.93	<0.5	10	28	3050	3.03

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E520861		<10	<1	0.31	20	0.82	180	<1	0.04	8	550	18	1.71	6	8	47
E520862		<10	<1	0.28	70	1.09	251	2	0.01	17	450	20	1.52	8	10	97
E520863		<10	<1	0.13	30	0.60	177	5	<0.01	10	180	12	1.15	7	5	66
E520864		<10	<1	0.13	30	0.31	98	1	0.02	1	70	17	0.63	7	1	58
E520865		<10	<1	0.13	30	0.23	101	1	0.05	2	80	12	0.66	2	2	45
E520866		<10	<1	0.15	30	0.22	115	2	0.06	1	130	11	0.54	<2	2	53
E520867		<10	<1	0.15	30	0.21	99	2	0.06	2	60	13	0.55	2	2	38
E520868		<10	<1	0.17	30	0.32	110	<1	0.04	3	270	7	1.49	5	3	46
E520869		<10	<1	0.15	30	0.31	116	3	0.06	3	150	11	1.20	<2	3	38
E520870		<10	<1	0.01	<10	0.65	108	<1	0.01	<1	70	<2	0.01	<2	<1	84
E520871		<10	<1	0.18	30	0.27	101	2	0.06	3	200	10	0.85	<2	3	35
E520872		<10	<1	0.35	20	0.57	192	2	0.01	12	250	14	0.43	18	4	29
E520873		10	<1	0.89	30	1.30	227	2	0.08	9	530	43	0.47	2	14	74
E520874		<10	<1	0.17	80	0.49	104	3	0.05	3	310	6	0.62	<2	2	43
E520875		<10	<1	0.23	80	0.36	119	2	0.05	8	370	8	0.56	<2	3	34
E520876		<10	<1	0.16	80	0.36	96	3	0.03	3	290	6	0.74	13	1	31
E520877		<10	<1	0.15	80	0.49	105	4	0.03	2	230	4	1.08	10	1	54
E520878		<10	<1	0.17	100	0.46	121	1	0.05	4	270	5	1.07	2	3	35
E520879		10	<1	0.41	30	1.03	294	<1	0.06	9	840	9	1.46	<2	14	84
E520880		10	<1	0.20	10	0.74	440	240	0.09	22	620	9	0.46	<2	5	46
E520881		<10	<1	0.25	50	0.92	239	1	0.06	7	870	5	1.23	<2	9	68
E520882		10	<1	0.36	10	1.34	359	<1	0.07	13	1320	4	1.29	4	13	103
E520883		<10	<1	0.31	20	1.44	331	<1	0.04	10	990	5	1.72	<2	12	145
E520884		10	<1	0.44	10	1.06	298	1	0.08	10	1060	6	1.07	<2	13	109
E520885		<10	<1	0.23	10	1.44	336	<1	0.01	10	630	7	1.05	<2	16	115
E520886		10	<1	0.72	10	1.57	362	<1	0.07	31	750	5	0.84	<2	14	93
E520887		10	<1	1.13	<10	1.89	329	<1	0.15	29	410	3	0.59	<2	12	64
E520888		10	<1	0.79	10	1.78	326	1	0.07	82	330	12	0.72	5	13	76
E520889		<10	<1	0.14	100	0.70	181	8	0.01	16	280	5	0.88	2	4	56
E520890		<10	1	0.01	<10	0.72	114	<1	0.01	<1	60	<2	0.01	<2	<1	83
E520891		10	<1	1.09	40	1.08	218	1	0.08	25	350	14	0.38	3	10	26
E520892		10	<1	0.82	30	1.36	186	<1	0.09	19	290	3	0.67	<2	11	43
E520893		10	<1	1.05	30	1.44	201	1	0.10	19	580	3	0.69	<2	9	20
E520894		10	<1	1.53	10	2.24	348	1	0.14	28	780	4	0.86	<2	15	23
E520895		10	<1	1.26	10	1.81	353	<1	0.14	23	490	5	0.42	<2	12	20
E520896		10	<1	1.53	10	2.14	348	1	0.14	30	610	24	0.61	<2	14	24
E520897		10	<1	0.99	10	1.80	299	1	0.14	24	750	3	0.97	<2	11	31
E520898		10	<1	1.26	<10	2.35	382	3	0.11	31	510	6	1.23	<2	17	34
E520899		10	<1	1.54	10	2.28	382	23	0.11	29	630	6	0.70	<2	17	44
E520900		<10	<1	0.20	10	0.73	442	248	0.09	23	630	9	0.47	<2	5	46

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E520861		<20	0.03	<10	<10	37	<10	35
E520862		20	0.01	<10	<10	42	<10	79
E520863		<20	<0.01	<10	<10	15	<10	43
E520864		<20	<0.01	<10	<10	1	<10	45
E520865		<20	<0.01	<10	<10	2	<10	41
E520866		<20	<0.01	<10	<10	3	<10	23
E520867		<20	<0.01	<10	<10	1	<10	29
E520868		<20	<0.01	<10	<10	7	<10	21
E520869		<20	<0.01	<10	<10	5	<10	35
E520870		<20	<0.01	<10	<10	<1	<10	<2
E520871		<20	<0.01	<10	<10	7	<10	29
E520872		<20	0.02	<10	<10	23	<10	42
E520873		<20	0.12	<10	<10	81	<10	87
E520874		20	<0.01	<10	<10	6	<10	21
E520875		30	0.01	<10	<10	16	<10	22
E520876		20	<0.01	<10	<10	4	<10	18
E520877		20	<0.01	<10	<10	4	<10	12
E520878		30	0.01	<10	<10	25	<10	15
E520879		<20	0.05	<10	<10	117	<10	29
E520880		<20	0.15	<10	<10	62	10	53
E520881		<20	0.03	<10	<10	65	<10	22
E520882		<20	0.06	<10	<10	98	<10	32
E520883		<20	0.02	<10	<10	78	<10	49
E520884		<20	0.09	<10	<10	97	<10	38
E520885		<20	<0.01	<10	<10	70	<10	34
E520886		<20	0.12	<10	<10	100	<10	32
E520887		<20	0.25	<10	<10	108	<10	29
E520888		<20	0.14	<10	<10	81	<10	93
E520889		30	<0.01	<10	<10	14	<10	15
E520890		<20	<0.01	<10	<10	1	<10	2
E520891		20	0.19	<10	<10	72	<10	25
E520892		<20	0.14	<10	<10	65	<10	23
E520893		<20	0.25	<10	<10	101	<10	20
E520894		<20	0.42	<10	<10	172	<10	37
E520895		<20	0.33	<10	<10	133	<10	36
E520896		<20	0.34	<10	<10	125	<10	50
E520897		<20	0.25	<10	<10	108	10	44
E520898		<20	0.27	<10	<10	157	<10	52
E520899		<20	0.29	<10	<10	131	40	38
E520900		<20	0.15	<10	<10	61	10	54

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ES20901		7.06	0.021	0.4	2.02	18	<10	160	<0.5	2	1.57	<0.5	20	64	353	5.10
ES20902		7.21	0.014	0.3	2.18	2	<10	90	<0.5	<2	1.46	<0.5	24	62	304	5.21
ES20903		7.17	0.005	<0.2	1.99	5	<10	80	<0.5	<2	1.58	<0.5	17	111	135	3.84
ES20904		6.81	0.014	0.2	1.79	4	<10	60	<0.5	<2	1.22	<0.5	16	76	158	3.67
ES20905		7.09	0.170	1.0	2.31	9	<10	90	<0.5	2	1.34	<0.5	21	42	757	5.14
ES20906		7.56	0.117	0.9	2.09	13	<10	70	<0.5	6	1.32	<0.5	23	40	724	5.12
ES20907		5.75	0.006	<0.2	2.13	5	<10	180	<0.5	2	1.54	<0.5	17	59	109	3.96
ES20908		4.79	0.031	0.6	1.47	69	<10	230	0.8	2	3.78	1.7	15	52	352	5.02
ES20909		6.94	0.024	0.5	1.96	41	<10	200	0.9	<2	3.70	<0.5	21	91	326	5.84
ES20910		0.55	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.08
ES20911		5.06	0.047	0.4	1.90	7	<10	590	0.5	<2	3.00	<0.5	19	59	320	4.86
ES20912		5.46	0.027	0.2	2.40	5	<10	830	0.5	3	2.95	<0.5	17	106	165	4.95
ES20913		6.46	0.011	0.2	1.52	4	<10	120	0.5	<2	1.30	<0.5	8	45	112	2.83
ES20914		6.30	0.017	0.3	0.82	101	<10	60	0.8	<2	1.87	<0.5	7	6	242	2.60
ES20915		4.54	0.010	0.2	0.79	175	<10	60	0.7	<2	2.37	<0.5	10	30	218	2.87
ES20916		6.17	0.059	0.3	2.36	29	<10	440	0.5	6	1.58	<0.5	22	42	261	5.58
ES20917		7.30	0.018	0.2	1.91	14	<10	270	<0.5	3	1.21	<0.5	16	37	201	4.23
ES20918		7.22	0.019	0.2	2.23	3	<10	160	<0.5	2	1.24	<0.5	18	63	192	4.85
ES20919		7.67	0.334	0.5	1.91	2	<10	90	<0.5	4	1.46	<0.5	19	82	375	4.14
ES20920		0.07	0.776	5.0	1.34	26	<10	50	<0.5	<2	0.55	4.8	15	21	5270	6.07
ES20921		6.94	0.086	0.3	1.74	<2	<10	100	<0.5	<2	1.55	<0.5	21	38	246	4.32
ES20922		7.08	0.197	0.4	1.95	84	<10	160	0.8	6	2.12	<0.5	19	80	278	5.66
ES20923		4.29	0.019	0.2	1.73	8	<10	130	0.6	<2	1.22	<0.5	11	23	154	3.04
ES20924		4.77	0.344	0.4	0.79	42	<10	50	0.5	7	0.88	<0.5	5	7	259	1.66
ES20925		6.60	0.228	0.2	0.60	40	<10	20	<0.5	15	1.64	<0.5	3	3	159	1.33
ES20926		6.65	0.019	0.2	0.51	63	<10	20	<0.5	5	1.06	<0.5	5	4	204	1.37
ES20927		6.72	0.018	0.4	0.27	58	<10	30	<0.5	3	0.58	<0.5	5	6	383	1.52
ES20928		6.88	0.044	0.4	0.39	83	<10	40	0.5	4	0.84	<0.5	4	5	314	1.21
ES20929		6.72	0.009	0.2	0.32	711	<10	60	0.5	4	0.75	<0.5	2	6	79	0.72
ES20930		0.48	<0.005	<0.2	0.02	<2	<10	10	<0.5	3	>25.0	<0.5	<1	1	<1	0.08
ES20931		6.43	0.222	0.2	0.52	128	<10	40	0.5	<2	0.75	<0.5	5	7	141	1.49
ES20932		6.19	0.013	0.2	0.51	54	<10	30	<0.5	5	1.46	<0.5	2	7	122	1.34
ES20933		6.07	0.012	0.3	0.57	49	<10	20	<0.5	13	1.79	<0.5	3	3	181	1.55
ES20934		6.05	0.009	0.2	0.54	52	<10	30	<0.5	4	2.26	<0.5	4	2	170	1.70
ES20935		5.41	0.008	0.2	0.70	44	<10	200	<0.5	3	1.06	<0.5	3	2	154	1.35
ES20936		5.84	0.008	0.3	0.68	45	<10	20	0.5	23	0.68	<0.5	3	3	149	1.57
ES20937		6.31	<0.005	<0.2	0.49	67	<10	40	<0.5	2	0.60	<0.5	3	5	133	1.51
ES20938		6.92	0.009	0.2	0.34	374	<10	60	<0.5	3	0.65	<0.5	4	8	161	1.52
ES20939		6.95	0.008	<0.2	0.30	32	<10	60	<0.5	2	0.49	<0.5	4	7	181	1.58
ES20940		0.07	0.312	1.0	1.55	3	<10	120	<0.5	3	0.95	0.5	11	29	3210	3.08

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20901		10	<1	1.31	10	2.12	374	5	0.11	25	580	5	0.94	<2	16	45
ES20902		10	<1	1.04	10	1.98	351	40	0.18	22	780	2	1.10	<2	13	33
ES20903		10	<1	1.02	<10	1.98	308	1	0.16	36	460	2	0.49	<2	11	35
ES20904		10	<1	0.88	<10	1.93	290	1	0.15	27	460	2	0.57	<2	11	22
ES20905		10	<1	1.43	10	2.45	312	1	0.12	20	580	4	0.96	<2	17	29
ES20906		10	<1	1.12	10	2.22	384	2	0.13	20	690	5	1.19	<2	16	29
ES20907		10	<1	1.21	10	1.99	309	<1	0.16	24	470	<2	0.47	<2	14	54
ES20908		10	<1	0.79	10	2.39	485	1	0.03	23	400	67	0.57	<2	16	106
ES20909		10	<1	0.97	10	2.80	493	1	0.05	36	590	9	0.57	<2	22	140
ES20910		<10	<1	0.01	<10	0.65	120	<1	<0.01	<1	60	<2	0.01	<2	<1	77
ES20911		10	<1	1.17	20	2.88	487	<1	0.04	30	750	14	0.23	<2	19	135
ES20912		10	<1	1.93	10	3.55	557	1	0.06	39	330	3	0.20	2	19	122
ES20913		10	<1	0.75	10	1.49	268	<1	0.11	18	500	10	0.34	<2	9	56
ES20914		<10	<1	0.17	30	0.81	164	3	0.01	5	840	19	0.88	9	3	83
ES20915		<10	<1	0.13	20	0.99	278	<1	0.01	22	400	9	0.46	23	8	85
ES20916		10	<1	1.66	20	2.29	479	<1	0.10	23	700	10	0.53	<2	20	68
ES20917		10	<1	1.22	30	1.85	309	1	0.11	17	420	5	0.50	<2	14	54
ES20918		10	<1	1.49	10	2.13	306	2	0.14	23	490	4	0.58	<2	15	46
ES20919		10	<1	0.96	<10	2.07	329	<1	0.15	30	460	<2	0.73	<2	12	36
ES20920		<10	<1	0.31	<10	0.40	722	121	0.04	18	510	111	4.31	2	2	39
ES20921		10	<1	0.79	<10	1.79	387	<1	0.16	20	590	2	0.72	<2	12	41
ES20922		10	<1	1.34	10	2.42	531	<1	0.09	25	560	10	0.69	3	20	105
ES20923		10	<1	1.06	10	1.42	257	<1	0.13	12	430	3	0.53	<2	12	44
ES20924		<10	<1	0.28	30	0.49	103	1	0.05	3	80	15	0.53	9	3	32
ES20925		<10	<1	0.09	20	0.61	140	1	<0.01	<1	40	24	0.29	34	2	30
ES20926		<10	<1	0.11	30	0.41	88	<1	0.01	1	60	15	0.51	26	2	31
ES20927		<10	<1	0.11	30	0.27	74	2	0.06	2	70	9	0.64	<2	2	26
ES20928		<10	<1	0.12	20	0.30	80	<1	0.04	2	100	12	0.47	8	1	36
ES20929		<10	<1	0.15	10	0.25	76	1	0.06	<1	80	24	0.18	6	1	35
ES20930		<10	1	0.01	<10	0.95	123	<1	0.01	<1	70	<2	0.01	<2	<1	84
ES20931		<10	<1	0.17	30	0.36	127	4	0.03	2	100	17	0.48	6	3	28
ES20932		<10	<1	0.13	20	0.47	189	2	<0.01	<1	50	13	0.32	4	1	17
ES20933		<10	<1	0.09	20	0.59	191	1	<0.01	<1	50	26	0.42	5	2	23
ES20934		<10	<1	0.10	20	0.76	221	1	0.01	1	70	17	0.51	4	2	27
ES20935		<10	<1	0.10	30	0.39	162	1	<0.01	1	110	15	0.44	9	2	15
ES20936		<10	<1	0.08	20	0.41	138	2	0.01	<1	60	37	0.47	14	3	32
ES20937		<10	<1	0.09	30	0.37	124	1	0.04	1	60	10	0.37	9	3	31
ES20938		<10	<1	0.12	30	0.36	121	1	0.05	1	70	14	0.45	4	2	29
ES20939		<10	<1	0.11	30	0.32	106	1	0.05	1	60	10	0.54	<2	3	22
ES20940		10	<1	0.20	10	0.75	442	252	0.09	23	630	8	0.48	4	5	46

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20901		<20	0.31	<10	<10	154	<10	38
ES20902		<20	0.31	<10	<10	154	10	31
ES20903		<20	0.26	<10	<10	105	<10	27
ES20904		<20	0.23	<10	<10	108	<10	25
ES20905		<20	0.31	<10	<10	169	<10	35
ES20906		<20	0.28	<10	<10	163	<10	48
ES20907		<20	0.26	<10	<10	107	<10	25
ES20908		<20	0.10	<10	<10	89	<10	211
ES20909		<20	0.14	<10	<10	129	<10	54
ES20910		<20	<0.01	<10	<10	1	<10	<2
ES20911		<20	0.15	<10	<10	109	<10	53
ES20912		<20	0.24	<10	<10	106	<10	36
ES20913		<20	0.14	<10	<10	62	<10	29
ES20914		<20	<0.01	<10	<10	23	<10	52
ES20915		<20	0.01	<10	<10	33	<10	51
ES20916		<20	0.31	<10	<10	166	<10	44
ES20917		<20	0.23	<10	<10	102	<10	28
ES20918		<20	0.34	<10	<10	136	<10	29
ES20919		<20	0.26	<10	<10	111	10	28
ES20920		<20	0.03	<10	<10	25	<10	841
ES20921		<20	0.29	<10	<10	124	10	31
ES20922		<20	0.23	<10	<10	142	<10	67
ES20923		<20	0.25	<10	<10	97	<10	27
ES20924		<20	0.02	<10	<10	9	<10	23
ES20925		<20	<0.01	<10	<10	2	<10	32
ES20926		<20	<0.01	<10	<10	2	<10	25
ES20927		<20	<0.01	<10	<10	2	<10	25
ES20928		<20	<0.01	<10	10	2	<10	33
ES20929		<20	<0.01	<10	<10	1	<10	35
ES20930		<20	<0.01	<10	<10	<1	<10	<2
ES20931		<20	<0.01	<10	<10	3	<10	46
ES20932		<20	<0.01	<10	<10	3	<10	21
ES20933		<20	<0.01	<10	<10	2	<10	26
ES20934		<20	<0.01	<10	<10	2	<10	24
ES20935		<20	<0.01	<10	<10	2	<10	29
ES20936		<20	<0.01	<10	<10	2	<10	27
ES20937		<20	<0.01	<10	<10	2	<10	25
ES20938		<20	<0.01	<10	<10	3	<10	32
ES20939		<20	<0.01	<10	<10	3	<10	32
ES20940		<20	0.15	<10	<10	62	10	54

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ES20941		6.60	0.049	0.4	0.33	102	<10	40	<0.5	10	0.62	0.5	4	6	258	1.51
ES20942		7.41	0.009	0.2	0.26	119	<10	70	<0.5	2	0.53	0.6	3	8	180	1.36
ES20943		6.99	0.006	0.2	0.27	99	<10	60	<0.5	7	0.53	<0.5	3	14	155	1.46
ES20944		6.55	0.014	0.3	0.22	19	<10	50	<0.5	3	0.37	<0.5	4	9	224	1.47
ES20945		6.99	0.172	0.6	0.24	32	<10	50	<0.5	20	0.48	<0.5	5	7	358	1.47
ES20946		6.54	0.007	0.2	0.37	75	<10	70	<0.5	<2	0.62	<0.5	4	6	165	1.27
ES20947		6.72	0.006	0.2	0.30	17	<10	40	<0.5	3	0.46	<0.5	4	8	169	1.27
ES20948		5.82	<0.005	0.2	0.61	49	<10	30	0.5	4	0.49	<0.5	4	2	193	1.45
ES20949		5.59	0.006	0.2	0.60	104	<10	20	<0.5	<2	1.40	<0.5	4	2	113	1.98
ES20950		0.50	<0.005	<0.2	0.03	<2	<10	10	<0.5	5	>25.0	<0.5	<1	<1	1	0.06
ES20951		3.82	0.008	0.2	0.61	58	<10	50	<0.5	2	0.66	<0.5	4	1	182	1.64
ES20952		3.52	0.040	0.9	0.53	33	<10	20	<0.5	11	0.72	2.1	4	2	295	1.58
ES20953		5.11	0.016	<0.2	1.10	186	<10	30	0.5	8	0.28	<0.5	11	17	84	2.51
ES20954		8.11	0.028	<0.2	1.09	172	<10	30	<0.5	6	0.15	<0.5	5	21	139	2.73
ES20955		8.99	0.251	0.9	1.12	155	<10	10	0.5	31	0.49	<0.5	10	25	704	12.00
ES20956		9.69	0.186	1.2	1.63	2860	<10	20	1.2	18	0.15	<0.5	31	162	524	13.70
ES20957		10.47	0.048	0.3	1.67	924	<10	30	0.5	8	0.39	<0.5	8	18	249	4.80
ES20958		9.28	0.050	0.2	1.78	504	<10	40	0.8	5	0.16	<0.5	9	29	230	5.37
ES20959		9.16	0.083	0.2	1.72	116	<10	100	0.7	6	0.39	<0.5	17	74	258	6.57
ES20960		0.07	0.307	0.9	1.49	3	<10	120	<0.5	3	0.90	0.5	10	28	3100	2.99
ES20961		10.52	0.040	<0.2	1.91	39	<10	30	0.8	6	0.92	<0.5	25	97	200	6.03
ES20962		9.01	0.015	0.3	1.90	647	<10	90	0.8	14	0.30	<0.5	16	89	432	10.85
ES20963		9.44	0.800	0.4	1.23	810	<10	240	0.8	17	0.23	<0.5	13	13	334	10.50

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20941		<10	<1	0.09	20	0.32	133	4	0.04	<1	50	35	0.54	7	3	26
ES20942		<10	<1	0.11	20	0.29	132	3	0.06	2	50	19	0.43	2	3	25
ES20943		<10	<1	0.12	20	0.29	125	5	0.08	1	60	20	0.49	3	3	25
ES20944		<10	<1	0.10	20	0.25	117	3	0.07	3	60	17	0.56	<2	3	19
ES20945		<10	<1	0.10	30	0.27	106	4	0.07	2	60	17	0.56	<2	3	24
ES20946		<10	<1	0.12	20	0.27	99	6	0.04	1	80	15	0.55	6	2	29
ES20947		<10	<1	0.13	20	0.26	109	11	0.06	1	80	17	0.44	7	2	25
ES20948		<10	<1	0.10	30	0.28	142	10	0.01	1	70	20	0.53	4	3	24
ES20949		<10	<1	0.08	30	0.49	306	8	0.01	1	70	6	0.68	6	3	17
ES20950		<10	<1	<0.01	<10	1.07	101	<1	0.01	<1	70	<2	0.02	<2	<1	70
ES20951		<10	<1	0.07	30	0.32	193	4	<0.01	2	70	9	0.53	4	3	15
ES20952		<10	<1	0.10	20	0.35	237	10	0.01	3	70	102	0.51	2	3	17
ES20953		<10	<1	0.19	10	0.53	247	<1	0.05	13	240	3	0.02	<2	9	16
ES20954		<10	<1	0.22	10	0.49	138	1	0.06	10	180	2	0.06	<2	7	19
ES20955		10	<1	0.14	10	0.26	110	4	0.18	7	410	5	2.69	2	4	43
ES20956		<10	<1	0.18	10	0.38	536	5	0.14	91	750	5	0.70	<2	13	43
ES20957		10	<1	0.24	10	0.69	195	1	0.11	8	680	4	0.28	<2	16	30
ES20958		10	<1	0.35	10	0.61	224	1	0.04	10	350	5	0.21	2	10	31
ES20959		10	<1	0.38	10	0.68	291	3	0.07	19	380	4	0.28	3	13	23
ES20960		<10	<1	0.19	10	0.73	428	248	0.09	22	630	9	0.47	<2	5	44
ES20961		10	<1	0.33	10	0.97	482	1	0.09	30	600	5	0.57	4	17	27
ES20962		10	<1	0.30	10	1.01	348	1	0.06	16	710	5	0.50	4	21	63
ES20963		10	<1	0.44	10	0.37	284	<1	0.05	8	760	6	0.93	4	17	74

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20941		<20	<0.01	<10	<10	2	<10	47
ES20942		<20	<0.01	<10	<10	2	10	53
ES20943		<20	<0.01	<10	<10	2	<10	38
ES20944		<20	<0.01	<10	<10	2	<10	44
ES20945		<20	<0.01	<10	<10	2	<10	33
ES20946		<20	<0.01	<10	<10	2	<10	38
ES20947		<20	<0.01	<10	<10	2	<10	31
ES20948		<20	<0.01	<10	<10	2	<10	32
ES20949		<20	<0.01	<10	<10	4	<10	15
ES20950		<20	<0.01	<10	<10	<1	<10	2
ES20951		<20	<0.01	<10	<10	2	<10	21
ES20952		<20	<0.01	<10	<10	4	<10	212
ES20953		<20	0.01	<10	<10	51	<10	24
ES20954		<20	0.04	<10	<10	38	<10	16
ES20955		<20	0.14	<10	<10	38	<10	18
ES20956		<20	0.04	<10	<10	77	<10	56
ES20957		<20	0.14	<10	<10	122	<10	24
ES20958		<20	0.02	<10	<10	65	<10	21
ES20959		<20	0.06	<10	<10	83	<10	33
ES20960		<20	0.14	<10	<10	60	10	55
ES20961		<20	0.19	<10	<10	133	<10	48
ES20962		<20	0.01	<10	<10	180	<10	28
ES20963		<20	0.01	<10	<10	164	<10	23

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180243

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17180246

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 183 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E520964		9.46	0.054	0.2	0.99	243	<10	220	0.7	11	0.12	<0.5	13	45	297	8.99
E520965		9.35	0.054	0.2	1.07	942	<10	30	1.3	8	0.09	<0.5	22	56	527	9.13
E520966		9.14	0.033	0.2	1.04	369	<10	240	1.2	6	0.09	<0.5	30	22	137	6.10
E520967		11.00	0.008	<0.2	1.09	43	<10	110	1.3	4	1.14	<0.5	11	18	37	3.88
E520968		11.02	<0.005	<0.2	1.36	16	<10	30	1.0	<2	1.89	<0.5	11	26	30	3.44
E520969		11.17	0.015	<0.2	1.19	20	<10	20	1.0	<2	1.91	<0.5	20	24	56	4.11
E520970		0.47	<0.005	<0.2	0.02	4	<10	10	<0.5	4	>25.0	<0.5	2	1	1	0.14
E520971		10.61	0.007	<0.2	1.28	7	<10	50	0.6	5	1.95	<0.5	27	8	74	6.01
E520972		10.23	0.040	1.2	0.95	331	<10	40	1.1	10	1.61	<0.5	29	14	151	5.38
E520973		9.16	0.011	<0.2	0.76	228	<10	20	1.0	5	0.43	<0.5	15	9	175	3.62
E520974		10.02	0.116	0.3	0.69	1180	<10	20	1.0	19	0.74	<0.5	21	10	402	5.78
E520975		10.10	0.025	<0.2	0.67	86	<10	10	1.3	4	2.79	<0.5	32	29	161	7.61
I027834		8.94	0.016	0.2	0.35	39	<10	90	<0.5	2	0.02	<0.5	<1	5	9	0.82
I027835		9.60	0.005	<0.2	0.45	18	<10	80	<0.5	3	0.02	<0.5	<1	5	6	0.58
I027836		9.16	0.007	<0.2	0.43	42	<10	130	<0.5	2	0.01	<0.5	<1	4	10	0.82
I027837		9.30	0.045	0.8	0.38	413	<10	90	<0.5	4	<0.01	<0.5	<1	5	184	1.14
I027838		8.64	<0.005	0.2	0.39	53	<10	80	<0.5	2	<0.01	<0.5	<1	4	19	0.80
I027839		8.89	0.010	0.3	0.54	26	<10	100	<0.5	4	<0.01	<0.5	<1	4	39	1.01
I027840		0.07	0.308	0.9	1.46	5	<10	120	<0.5	2	0.85	<0.5	11	27	3070	2.96
I027841		9.10	0.011	<0.2	0.41	20	<10	120	<0.5	4	0.01	<0.5	<1	4	27	0.89
I027842		6.75	0.008	0.2	0.51	12	<10	80	<0.5	3	0.01	<0.5	<1	5	39	0.77
I027843		5.57	0.005	<0.2	0.52	18	<10	130	<0.5	3	<0.01	<0.5	<1	3	9	0.99
I027844		2.98	0.005	<0.2	0.47	15	<10	70	<0.5	2	0.01	<0.5	<1	3	12	0.47
I027845		4.25	<0.005	<0.2	0.37	12	<10	60	<0.5	3	0.01	<0.5	<1	4	12	0.50
I027846		5.43	0.007	0.3	0.45	22	<10	60	<0.5	3	0.01	<0.5	<1	4	13	0.57
I027847		5.52	<0.005	<0.2	0.45	11	<10	90	<0.5	3	<0.01	<0.5	<1	3	12	0.82
I027848		5.85	<0.005	<0.2	0.45	22	<10	80	<0.5	3	<0.01	<0.5	<1	4	7	0.61
I027849		6.00	<0.005	0.2	0.49	44	<10	110	<0.5	2	0.01	<0.5	<1	5	12	0.88
I027850		0.50	<0.005	<0.2	0.01	<2	<10	10	<0.5	2	>25.0	<0.5	1	<1	3	0.12
I027851		5.40	<0.005	<0.2	0.50	9	<10	140	<0.5	3	0.04	<0.5	<1	3	14	0.92
I027852		6.12	<0.005	<0.2	0.57	10	<10	210	<0.5	2	0.04	<0.5	<1	4	20	1.09
I027853		5.70	<0.005	0.2	0.47	22	<10	90	<0.5	2	0.01	<0.5	<1	4	21	0.60
I027854		6.15	0.016	2.8	0.45	152	<10	110	<0.5	33	0.01	<0.5	1	4	64	1.28
I027855		5.54	<0.005	0.2	0.38	41	<10	110	<0.5	2	<0.01	<0.5	<1	4	40	0.78
I027856		5.07	<0.005	0.3	0.43	124	<10	100	<0.5	2	<0.01	<0.5	<1	3	26	0.71
I027857		3.37	<0.005	0.2	0.39	67	<10	110	<0.5	2	<0.01	<0.5	<1	3	12	0.80
I027858		3.11	0.006	0.4	0.41	103	<10	150	<0.5	3	<0.01	<0.5	<1	4	16	1.21
I027859		3.51	0.116	1.0	0.32	306	<10	150	<0.5	5	<0.01	<0.5	<1	3	32	3.06
I027860		0.07	0.278	1.4	1.42	6	<10	110	<0.5	<2	0.88	0.6	10	27	3070	2.90
I027861		5.23	<0.005	0.2	0.42	69	<10	120	<0.5	2	<0.01	<0.5	<1	4	17	1.03

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E520964		10	<1	0.33	10	0.15	187	<1	0.01	12	730	5	0.61	4	13	36
E520965		<10	<1	0.14	10	0.08	772	2	<0.01	30	670	10	0.17	12	19	23
E520966		<10	<1	0.17	10	0.07	1045	1	0.01	20	540	7	0.28	6	17	26
E520967		10	<1	0.28	10	0.51	384	<1	0.02	20	350	4	0.38	4	12	31
E520968		10	<1	0.30	10	0.91	501	<1	0.01	11	470	4	0.47	4	10	48
E520969		10	<1	0.19	10	0.71	451	<1	0.01	12	610	5	1.09	5	12	50
E520970		<10	<1	<0.01	<10	1.26	161	<1	<0.01	<1	60	<2	0.02	<2	1	77
E520971		10	<1	0.30	10	0.91	604	<1	0.09	7	1010	4	1.81	3	15	58
E520972		<10	<1	0.14	10	0.75	470	<1	0.02	11	820	6	2.07	8	14	51
E520973		<10	<1	0.11	20	0.18	322	1	<0.01	15	250	5	0.66	5	10	21
E520974		<10	<1	0.15	10	0.24	336	1	<0.01	14	400	6	2.95	9	13	34
E520975		<10	<1	0.15	10	1.46	971	1	<0.01	19	390	6	2.32	11	24	116
I027834		<10	<1	0.26	20	0.01	33	1	<0.01	1	40	10	0.24	4	<1	6
I027835		<10	<1	0.21	20	0.01	35	1	<0.01	2	40	7	0.14	2	<1	6
I027836		<10	<1	0.25	20	<0.01	26	1	<0.01	1	60	15	0.29	2	1	8
I027837		<10	<1	0.32	20	0.01	41	1	<0.01	2	40	185	0.45	10	<1	7
I027838		<10	<1	0.24	20	<0.01	23	1	0.01	1	50	9	0.30	4	<1	7
I027839		<10	<1	0.30	20	0.01	39	1	0.01	1	50	8	0.35	3	1	8
I027840		<10	<1	0.19	10	0.69	426	251	0.08	22	640	9	0.46	2	5	44
I027841		<10	<1	0.22	20	<0.01	20	2	0.02	1	70	7	0.36	2	<1	7
I027842		<10	<1	0.21	20	0.01	34	2	0.04	2	60	7	0.32	2	<1	6
I027843		<10	<1	0.25	20	0.01	20	1	0.04	1	90	7	0.43	<2	1	8
I027844		<10	<1	0.18	20	0.01	25	1	0.03	1	60	7	0.15	<2	1	7
I027845		<10	<1	0.17	20	<0.01	24	1	0.02	1	60	5	0.11	2	<1	7
I027846		<10	<1	0.23	20	0.01	29	1	0.02	2	70	15	0.16	3	<1	6
I027847		<10	<1	0.20	20	<0.01	24	2	0.01	1	60	17	0.25	2	<1	6
I027848		<10	<1	0.21	20	<0.01	32	1	0.01	1	50	10	0.17	<2	<1	6
I027849		<10	<1	0.26	20	0.01	28	2	0.01	1	60	19	0.30	<2	1	7
I027850		<10	<1	<0.01	<10	0.86	132	<1	<0.01	<1	70	<2	0.02	<2	<1	71
I027851		<10	<1	0.26	20	0.01	26	3	0.02	1	80	6	0.36	2	1	9
I027852		<10	<1	0.29	20	0.01	31	2	0.03	1	90	8	0.39	<2	1	16
I027853		<10	<1	0.23	20	0.01	24	4	0.02	1	70	21	0.27	2	1	8
I027854		<10	1	0.32	20	0.01	34	7	0.02	5	70	534	0.45	4	1	7
I027855		<10	1	0.26	20	<0.01	25	2	0.01	2	30	23	0.29	<2	<1	6
I027856		<10	<1	0.26	20	0.01	25	1	0.01	1	30	20	0.23	<2	<1	5
I027857		<10	1	0.25	20	<0.01	23	2	0.01	2	30	17	0.27	<2	1	5
I027858		<10	1	0.34	20	0.01	28	6	0.01	1	30	19	0.39	2	1	7
I027859		<10	1	0.60	10	0.01	20	3	0.02	1	60	131	0.99	2	1	9
I027860		<10	<1	0.18	10	0.70	432	245	0.09	21	620	10	0.45	3	5	42
I027861		<10	1	0.29	20	0.01	31	2	0.01	2	40	14	0.28	<2	1	7

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E520964		<20	<0.01	<10	<10	140	<10	21
E520965		<20	<0.01	<10	<10	102	<10	56
E520966		<20	<0.01	<10	<10	58	<10	32
E520967		<20	0.01	<10	<10	42	<10	25
E520968		<20	0.01	<10	<10	53	<10	20
E520969		<20	0.02	<10	<10	64	<10	23
E520970		<20	<0.01	<10	<10	<1	<10	3
E520971		<20	0.25	<10	<10	123	<10	36
E520972		<20	0.04	<10	<10	77	<10	25
E520973		<20	<0.01	<10	<10	16	<10	26
E520974		<20	<0.01	<10	<10	35	<10	24
E520975		<20	<0.01	<10	<10	103	<10	69
I027834		<20	<0.01	<10	<10	1	<10	3
I027835		20	<0.01	<10	<10	1	<10	4
I027836		20	<0.01	<10	<10	1	<10	3
I027837		<20	<0.01	<10	<10	1	<10	8
I027838		20	<0.01	<10	<10	1	<10	3
I027839		20	<0.01	<10	<10	1	<10	7
I027840		<20	0.13	<10	<10	58	10	52
I027841		20	<0.01	<10	<10	1	<10	5
I027842		20	<0.01	<10	<10	1	<10	8
I027843		30	<0.01	<10	<10	1	<10	15
I027844		20	<0.01	<10	<10	1	<10	7
I027845		20	<0.01	<10	<10	1	<10	7
I027846		20	<0.01	<10	<10	1	<10	8
I027847		30	<0.01	<10	<10	1	<10	8
I027848		20	<0.01	<10	<10	1	<10	4
I027849		30	<0.01	<10	<10	1	<10	6
I027850		<20	<0.01	<10	<10	<1	<10	2
I027851		40	<0.01	<10	<10	1	<10	8
I027852		40	<0.01	<10	<10	1	<10	9
I027853		30	<0.01	<10	<10	1	<10	8
I027854		20	<0.01	<10	<10	1	<10	15
I027855		20	<0.01	<10	<10	1	<10	4
I027856		<20	<0.01	<10	<10	1	<10	3
I027857		20	<0.01	<10	<10	1	<10	4
I027858		<20	<0.01	<10	<10	2	<10	3
I027859		20	<0.01	<10	<10	6	<10	5
I027860		<20	0.13	<10	<10	58	10	56
I027861		<20	<0.01	<10	<10	2	<10	4

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	
I027862		5.46	<0.005	0.3	0.37	49	<10	120	<0.5	2	<0.01	<0.5	1	4	15	0.93	
I027863		5.71	0.005	<0.2	0.56	27	<10	110	<0.5	2	<0.01	<0.5	<1	2	14	0.67	
I027864		5.55	0.005	0.2	0.58	37	<10	90	<0.5	2	<0.01	<0.5	<1	3	12	0.52	
I027865		5.33	0.015	0.3	0.46	70	<10	110	<0.5	3	<0.01	<0.5	<1	3	14	0.87	
I027866		5.28	<0.005	0.2	0.56	51	<10	100	<0.5	2	<0.01	<0.5	<1	3	11	0.66	
I027867		5.53	0.005	0.3	0.50	62	<10	110	<0.5	3	<0.01	<0.5	<1	3	40	1.30	
I027868		4.25	<0.005	0.4	0.59	46	<10	100	<0.5	3	0.01	<0.5	<1	3	40	1.23	
I027869		4.28	0.020	0.3	0.53	23	<10	70	<0.5	2	0.01	<0.5	<1	3	94	0.64	
I027870		0.38	<0.005	<0.2	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	1	<1	1	0.07	
I027871		3.12	0.014	0.7	1.06	26	<10	30	1.8	81	0.08	9.2	8	16	331	2.74	
I027872		4.13	0.064	1.0	0.88	41	<10	40	1.5	10	0.12	5.4	33	14	277	5.38	
I027873		4.65	0.526	3.9	1.10	4910	<10	30	2.0	72	0.02	2.1	26	7	670	10.50	
I027874		4.16	0.378	5.4	1.44	1925	<10	50	1.5	121	0.08	7.9	28	13	651	7.22	
I027875		4.60	0.714	1.7	1.06	436	<10	50	1.7	12	0.01	1.1	33	13	282	7.69	
I027876		4.21	0.029	0.8	0.94	849	<10	60	0.8	8	0.02	1.1	33	12	195	4.39	
I027877		3.91	0.064	0.6	1.17	1300	<10	40	0.7	15	0.05	0.9	22	9	242	5.24	
I027878		4.67	1.925	4.3	0.71	6550	<10	30	0.6	57	0.01	2.2	81	5	1670	10.40	
I027879		5.26	1.190	3.4	0.64	>10000	<10	40	0.7	39	0.02	6.5	45	5	1260	10.25	
I027880		0.10	0.724	2.9	1.12	25	10	110	<0.5	4	0.75	<0.5	10	47	7670	2.43	
I027881		4.35	0.170	1.7	0.70	1775	<10	30	0.8	262	0.01	2.6	37	8	511	8.44	
I027882		4.48	0.300	3.7	0.83	1380	<10	40	0.5	436	0.02	2.6	17	8	712	4.03	
I027883		4.15	0.034	3.0	2.47	941	<10	50	1.5	70	0.02	8.0	48	13	786	5.07	
I027884		4.05	0.183	2.9	1.48	837	<10	50	1.5	62	0.10	4.6	37	9	392	5.44	
I027885		4.22	0.066	1.2	1.21	284	<10	40	1.4	382	0.19	12.9	31	17	397	5.48	
I027886		4.46	0.014	0.5	0.62	48	<10	40	1.0	24	0.17	6.1	11	11	151	3.96	
I027887		5.84	0.202	1.1	0.72	99	<10	50	0.5	11	0.02	0.7	5	3	115	1.15	
I027888		5.68	0.015	0.3	0.68	178	<10	50	<0.5	4	0.01	<0.5	3	2	72	1.16	
I027889		4.14	0.011	0.3	0.50	121	<10	40	<0.5	2	0.01	2.4	5	4	69	1.51	
I027890		0.54	<0.005	<0.2	0.05	3	<10	10	<0.5	<2	>25.0	<0.5	1	1	2	0.10	
I027891		4.03	0.021	0.3	0.52	527	<10	60	0.5	2	0.05	<0.5	10	5	266	2.17	
I027892		3.57	0.798	8.1	0.60	1370	<10	90	<0.5	78	0.09	0.5	7	6	328	2.03	
I027893		5.55	0.042	0.4	0.69	425	<10	110	0.6	4	0.01	<0.5	17	3	314	2.39	
I027894		6.02	0.057	0.4	0.56	193	<10	80	<0.5	6	0.03	1.6	8	3	324	1.32	
I027895		5.79	0.087	0.5	0.37	17	<10	90	<0.5	11	0.12	5.8	7	5	68	2.47	
I027896		5.97	0.027	0.2	0.33	12	<10	140	<0.5	<2	0.13	<0.5	5	5	46	2.70	
I027897		5.79	0.064	0.2	0.39	11	<10	80	0.5	<2	0.11	3.5	5	5	49	1.89	
I027898		5.39	0.009	0.2	0.31	13	<10	90	<0.5	<2	0.17	1.0	8	9	53	2.26	
I027899		6.09	0.010	0.2	0.53	47	<10	90	0.5	2	0.27	0.7	7	8	69	2.19	
I027900		0.10	0.311	0.9	1.46	6	<10	120	<0.5	<2	0.88	0.5	11	28	3130	3.03	
I027901		5.73	0.011	0.2	0.52	33	<10	80	0.5	<2	0.20	1.0	6	6	87	2.04	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	
I027862		<10	1	0.26	20	<0.01	24	2	0.01	<1	40	16	0.27	<2	1	5	
I027863		<10	1	0.30	20	0.01	15	2	0.01	<1	40	17	0.24	<2	1	5	
I027864		<10	<1	0.30	20	0.01	13	2	0.01	<1	50	19	0.19	<2	1	6	
I027865		<10	1	0.35	20	0.01	15	3	0.01	<1	50	23	0.28	<2	1	7	
I027866		<10	1	0.28	20	0.01	11	3	0.01	1	40	8	0.23	<2	1	6	
I027867		<10	<1	0.27	20	0.01	12	4	0.01	1	70	8	0.26	<2	1	4	
I027868		<10	1	0.27	20	0.01	16	3	0.03	1	70	6	0.23	3	1	5	
I027869		<10	<1	0.20	20	0.01	15	5	0.04	2	70	4	0.15	2	1	6	
I027870		<10	1	<0.01	<10	0.90	123	<1	0.01	<1	70	<2	0.01	<2	1	70	
I027871		<10	<1	0.25	30	0.16	140	2	0.03	21	580	8	1.00	4	4	8	
I027872		<10	1	0.25	20	0.23	645	<1	0.01	27	450	3	1.75	2	9	8	
I027873		<10	1	0.28	10	0.03	41	1	0.02	28	300	63	7.78	52	6	11	
I027874		<10	<1	0.36	10	0.10	304	2	0.02	47	450	82	3.83	53	8	20	
I027875		<10	1	0.35	10	0.04	79	4	0.01	23	470	20	2.52	18	7	7	
I027876		<10	<1	0.34	10	0.03	73	3	0.02	29	380	12	1.46	48	4	6	
I027877		<10	<1	0.33	<10	0.03	36	3	0.01	55	370	13	4.80	34	4	3	
I027878		<10	1	0.30	10	0.03	29	2	0.01	25	140	32	>10.0	96	3	10	
I027879		<10	1	0.36	10	0.03	49	2	0.01	22	200	36	9.69	48	2	13	
I027880		<10	<1	0.09	<10	0.52	380	359	0.08	31	500	6	0.60	<2	4	36	
I027881		<10	<1	0.28	10	0.03	58	3	0.01	29	340	13	4.10	71	4	15	
I027882		<10	<1	0.29	10	0.03	44	3	0.01	26	280	22	2.80	31	3	11	
I027883		<10	1	0.23	10	0.02	26	10	0.01	69	430	12	3.58	95	7	9	
I027884		<10	1	0.36	10	0.09	397	7	0.01	46	460	18	3.95	34	6	8	
I027885		<10	<1	0.32	20	0.38	685	1	0.01	41	680	10	2.41	11	9	6	
I027886		<10	<1	0.22	20	0.25	927	2	0.01	16	460	5	0.87	2	4	8	
I027887		<10	1	0.22	20	0.02	57	2	0.01	5	110	32	0.80	7	1	6	
I027888		<10	<1	0.22	20	0.01	22	3	0.01	4	110	12	0.61	12	1	5	
I027889		<10	1	0.18	20	0.01	54	1	0.01	3	100	5	0.65	7	1	4	
I027890		<10	<1	0.01	<10	0.58	119	<1	0.01	<1	70	<2	0.01	<2	1	79	
I027891		<10	<1	0.16	20	0.01	89	<1	<0.01	8	340	9	0.67	10	1	7	
I027892		<10	<1	0.20	20	0.01	39	<1	<0.01	6	300	43	0.57	15	2	13	
I027893		<10	<1	0.15	20	0.01	85	<1	<0.01	10	350	8	0.79	9	1	9	
I027894		<10	<1	0.14	20	0.02	76	<1	0.01	8	300	7	0.74	5	1	10	
I027895		<10	<1	0.14	20	0.12	430	<1	0.03	6	340	10	0.60	2	1	9	
I027896		<10	<1	0.16	20	0.08	494	<1	0.03	4	280	5	0.52	3	1	7	
I027897		<10	<1	0.14	20	0.07	282	1	0.03	6	270	5	0.55	<2	1	6	
I027898		<10	<1	0.16	20	0.14	412	<1	0.05	5	330	4	0.43	<2	1	11	
I027899		<10	<1	0.18	20	0.22	341	<1	0.04	5	360	6	0.42	<2	2	14	
I027900		<10	<1	0.20	<10	0.71	450	247	0.05	25	620	10	0.46	3	5	43	
I027901		<10	<1	0.14	20	0.20	295	1	0.04	6	350	6	0.44	<2	1	11	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027862		<20	<0.01	<10	<10	1	<10	3
I027863		20	<0.01	<10	<10	1	<10	4
I027864		20	<0.01	<10	<10	1	<10	3
I027865		20	<0.01	<10	<10	3	<10	5
I027866		<20	<0.01	<10	<10	3	<10	3
I027867		20	<0.01	<10	<10	6	<10	5
I027868		20	<0.01	<10	<10	1	<10	58
I027869		20	<0.01	<10	<10	1	<10	19
I027870		<20	<0.01	<10	<10	<1	<10	<2
I027871		<20	<0.01	<10	50	31	<10	143
I027872		<20	<0.01	<10	10	51	<10	377
I027873		<20	<0.01	<10	50	22	<10	716
I027874		<20	<0.01	<10	30	41	<10	315
I027875		<20	<0.01	<10	10	46	<10	632
I027876		<20	<0.01	<10	10	30	<10	377
I027877		<20	<0.01	<10	10	26	<10	155
I027878		<20	<0.01	10	10	13	<10	196
I027879		<20	<0.01	10	10	13	<10	238
I027880		<20	0.11	<10	<10	47	30	56
I027881		<20	<0.01	<10	30	27	<10	695
I027882		<20	<0.01	<10	10	16	<10	223
I027883		<20	<0.01	<10	60	45	<10	438
I027884		<20	<0.01	<10	20	30	<10	175
I027885		<20	0.01	<10	10	68	<10	165
I027886		<20	<0.01	<10	<10	25	<10	46
I027887		20	<0.01	<10	10	2	<10	28
I027888		20	<0.01	<10	10	2	<10	40
I027889		20	<0.01	<10	20	1	<10	67
I027890		<20	<0.01	<10	<10	<1	<10	2
I027891		20	<0.01	<10	20	7	<10	126
I027892		20	<0.01	<10	30	9	<10	231
I027893		20	<0.01	<10	20	8	<10	232
I027894		20	<0.01	<10	10	5	<10	53
I027895		20	<0.01	<10	10	8	<10	19
I027896		20	<0.01	<10	10	5	<10	19
I027897		20	<0.01	<10	10	5	<10	25
I027898		20	<0.01	<10	<10	10	<10	152
I027899		20	<0.01	<10	10	14	<10	76
I027900		<20	0.13	<10	<10	59	10	56
I027901		20	<0.01	<10	10	13	<10	63

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I027902		6.55	0.015	0.2	0.55	29	<10	100	<0.5	9	0.36	<0.5	5	8	28	1.61
I027903		6.05	<0.005	<0.2	0.61	12	<10	90	<0.5	<2	0.58	<0.5	3	9	15	1.48
I027904		6.47	0.013	0.2	0.36	11	<10	80	<0.5	<2	0.12	<0.5	4	8	23	1.80
I027905		6.26	0.006	<0.2	0.28	17	<10	60	<0.5	<2	0.05	<0.5	3	6	36	1.17
I027906		5.47	0.009	0.2	0.38	321	<10	40	<0.5	<2	0.03	1.7	5	6	38	1.38
I027907		5.65	<0.005	<0.2	0.56	42	<10	30	<0.5	<2	0.02	3.2	4	3	32	0.57
I027908		1.89	<0.005	0.2	0.59	32	<10	30	<0.5	<2	0.02	2.6	3	3	51	0.70
I027909		5.81	<0.005	0.2	2.03	30	<10	60	0.5	2	0.22	0.9	15	19	109	5.59
I027910		0.72	<0.005	0.2	0.03	<2	<10	10	<0.5	2	>25.0	<0.5	1	<1	2	0.12
I027911		5.30	<0.005	0.2	0.45	16	<10	60	<0.5	<2	0.07	0.7	5	7	41	1.50
I027912		6.13	<0.005	<0.2	0.35	5	<10	40	<0.5	<2	0.14	<0.5	2	7	6	0.81
I027913		6.23	0.008	<0.2	2.17	88	<10	50	1.1	3	0.73	<0.5	14	14	75	4.57
I027914		5.95	0.007	<0.2	2.39	18	<10	120	0.6	2	0.61	<0.5	15	18	74	4.27
I027915		6.58	<0.005	<0.2	2.21	12	<10	90	0.7	3	0.59	<0.5	9	12	61	3.62
I027916		6.42	<0.005	<0.2	1.34	13	<10	80	<0.5	<2	0.38	0.6	8	27	30	2.58
I027917		6.31	0.025	<0.2	2.64	2	<10	60	<0.5	9	1.37	<0.5	16	96	79	4.80
I027918		6.76	0.027	0.3	1.85	2	<10	70	0.5	6	0.70	<0.5	23	31	235	5.73
I027919		6.23	0.023	0.2	1.83	6	<10	130	0.5	5	0.62	<0.5	18	41	198	5.69
I027920		0.10	0.277	0.8	1.49	6	<10	120	<0.5	3	0.91	<0.5	12	29	3220	3.12
I027921		5.50	0.007	<0.2	1.08	10	<10	40	<0.5	2	0.63	<0.5	4	14	52	2.35
I027922		6.27	0.007	<0.2	0.89	6	<10	50	<0.5	3	0.33	<0.5	6	7	97	3.13
I027923		6.55	0.005	<0.2	1.65	4	<10	140	<0.5	3	0.66	<0.5	10	5	99	4.76
I027924		6.01	0.022	<0.2	1.16	18	<10	50	<0.5	2	0.36	<0.5	9	5	152	3.63
I027925		5.93	<0.005	0.3	1.12	594	<10	20	<0.5	<2	1.42	<0.5	11	3	190	3.86
I027926		5.85	0.129	0.3	1.17	252	<10	30	0.5	11	1.05	<0.5	11	3	177	3.84
I027927		2.75	0.020	0.2	0.98	52	<10	30	<0.5	6	0.66	<0.5	9	5	152	3.31
I027928		5.77	0.046	0.3	0.90	109	<10	30	<0.5	24	0.92	<0.5	9	4	148	2.88
I027929		6.52	0.007	0.2	1.13	95	<10	40	<0.5	<2	0.63	<0.5	8	7	137	3.44
I027930		0.64	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1	1	0.12
I027931		5.35	0.007	<0.2	1.20	110	<10	40	0.5	<2	0.96	<0.5	4	8	63	2.87
I027932		2.92	0.007	<0.2	0.77	237	<10	30	<0.5	<2	1.04	<0.5	4	6	77	2.30
I027933		5.52	<0.005	<0.2	0.65	129	<10	40	<0.5	<2	0.54	<0.5	4	7	64	1.82
I027934		5.91	0.158	<0.2	0.73	5	<10	30	<0.5	6	0.59	<0.5	4	8	54	1.79
I027935		5.59	0.029	<0.2	0.58	7	<10	40	<0.5	2	0.41	<0.5	3	8	47	1.55
I027936		3.98	0.011	<0.2	0.74	2	<10	40	<0.5	<2	0.23	<0.5	5	8	74	2.33
I027937		2.04	0.007	<0.2	0.31	7	<10	60	<0.5	<2	0.29	<0.5	2	9	24	1.07
I027938		5.60	<0.005	<0.2	0.27	6	<10	50	<0.5	<2	0.29	<0.5	1	9	38	1.15
I027939		5.73	<0.005	<0.2	0.27	5	<10	40	<0.5	<2	0.29	<0.5	1	9	38	1.14
I027940		0.10	0.750	3.0	1.18	14	<10	120	<0.5	<2	0.80	<0.5	11	50	8010	2.60
I027941		5.83	0.011	<0.2	0.25	4	<10	50	<0.5	<2	0.30	<0.5	1	8	45	1.12

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027902		<10	<1	0.16	20	0.27	215	<1	0.05	3	320	8	0.29	<2	2	14
I027903		<10	<1	0.16	20	0.29	175	<1	0.05	3	320	5	0.23	2	2	22
I027904		<10	<1	0.16	20	0.13	281	1	0.05	5	200	6	0.38	<2	1	7
I027905		<10	<1	0.18	20	0.04	218	3	0.05	24	80	22	0.28	<2	<1	6
I027906		<10	<1	0.17	20	0.02	131	1	0.03	4	80	5	0.89	4	<1	4
I027907		<10	<1	0.15	20	0.01	41	1	0.02	6	90	6	0.32	<2	<1	3
I027908		<10	<1	0.13	20	0.01	47	1	0.02	5	100	10	0.43	2	<1	3
I027909		10	<1	0.30	10	1.66	616	<1	0.03	7	510	6	1.01	<2	12	7
I027910		<10	1	0.01	<10	1.01	121	<1	<0.01	1	70	<2	0.01	2	<1	84
I027911		<10	<1	0.17	20	0.15	179	1	0.04	2	110	7	0.43	<2	1	6
I027912		<10	<1	0.15	20	0.08	149	1	0.05	2	90	7	0.09	<2	1	4
I027913		10	<1	0.24	20	0.80	464	1	0.13	7	440	7	0.98	2	10	28
I027914		10	<1	0.70	10	1.41	311	2	0.12	7	480	3	0.75	<2	11	30
I027915		10	<1	0.63	10	1.25	258	1	0.14	4	420	7	0.57	<2	10	30
I027916		10	<1	0.30	20	0.93	207	1	0.06	6	240	7	0.34	<2	7	13
I027917		10	<1	0.51	10	2.28	269	1	0.06	15	530	3	0.83	<2	16	20
I027918		10	<1	0.33	10	1.31	209	<1	0.05	8	420	4	2.39	<2	11	11
I027919		10	<1	0.31	10	1.47	245	1	0.03	9	610	6	2.01	2	14	11
I027920		10	<1	0.20	10	0.74	457	252	0.08	23	670	10	0.48	<2	5	44
I027921		10	<1	0.23	20	0.73	173	5	0.04	5	330	6	0.53	5	4	11
I027922		10	<1	0.17	20	0.55	162	1	0.06	1	340	4	1.20	2	8	9
I027923		10	<1	0.54	20	0.96	244	2	0.08	<1	710	2	0.99	<2	12	14
I027924		10	<1	0.20	20	0.75	183	1	0.07	<1	650	2	1.32	13	9	11
I027925		10	<1	0.14	20	0.67	176	2	0.03	<1	520	3	2.20	80	7	18
I027926		10	<1	0.17	20	0.69	193	2	0.03	<1	590	6	1.94	28	6	14
I027927		10	<1	0.12	20	0.60	182	1	0.05	1	480	4	1.33	14	6	11
I027928		10	<1	0.15	20	0.52	160	1	0.03	1	400	10	1.39	19	4	14
I027929		10	<1	0.16	20	0.70	183	1	0.04	2	350	3	1.36	19	7	12
I027930		<10	<1	<0.01	<10	0.74	152	<1	<0.01	<1	70	<2	0.01	<2	1	82
I027931		10	<1	0.19	20	0.85	157	1	0.04	1	280	4	0.68	3	7	20
I027932		10	<1	0.13	20	0.48	140	3	0.04	<1	210	2	0.82	3	5	30
I027933		<10	<1	0.13	20	0.39	135	2	0.04	1	70	3	0.56	<2	4	15
I027934		<10	<1	0.14	20	0.42	137	2	0.05	1	120	4	0.47	<2	5	15
I027935		<10	<1	0.14	20	0.33	108	2	0.05	<1	90	5	0.43	<2	4	15
I027936		10	<1	0.13	20	0.57	156	4	0.03	1	80	3	0.61	<2	8	12
I027937		<10	<1	0.13	20	0.08	154	11	0.05	1	80	6	0.27	<2	1	10
I027938		<10	<1	0.14	20	0.06	118	6	0.05	<1	70	4	0.51	<2	1	8
I027939		<10	<1	0.14	20	0.06	124	1	0.05	<1	80	5	0.43	<2	1	9
I027940		<10	<1	0.10	10	0.57	406	381	0.07	33	530	7	0.65	2	4	40
I027941		<10	<1	0.15	20	0.05	117	2	0.05	1	70	6	0.46	<2	1	10

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027902		20	0.01	<10	<10	15	<10	52
I027903		20	0.01	<10	<10	16	<10	26
I027904		20	<0.01	<10	<10	6	<10	44
I027905		20	<0.01	<10	<10	1	<10	29
I027906		20	<0.01	<10	10	1	<10	26
I027907		20	<0.01	<10	10	1	<10	15
I027908		20	<0.01	<10	10	1	<10	27
I027909		<20	0.02	<10	<10	106	<10	73
I027910		<20	<0.01	<10	<10	1	<10	2
I027911		20	<0.01	<10	10	8	<10	18
I027912		20	<0.01	<10	10	3	<10	11
I027913		<20	0.03	<10	<10	61	<10	60
I027914		<20	0.14	<10	<10	77	<10	60
I027915		<20	0.14	<10	<10	50	<10	54
I027916		<20	0.06	<10	<10	31	<10	69
I027917		<20	0.15	<10	<10	91	<10	33
I027918		<20	0.05	<10	<10	79	<10	22
I027919		<20	0.04	<10	<10	99	<10	28
I027920		<20	0.14	<10	<10	63	10	56
I027921		<20	0.01	<10	<10	38	<10	28
I027922		<20	0.02	<10	<10	17	<10	24
I027923		<20	0.10	<10	<10	36	<10	25
I027924		<20	0.02	<10	<10	15	<10	26
I027925		<20	0.01	<10	<10	15	<10	16
I027926		<20	0.01	<10	<10	13	<10	18
I027927		<20	<0.01	<10	<10	16	<10	16
I027928		<20	<0.01	<10	<10	12	<10	17
I027929		<20	0.01	<10	<10	15	<10	18
I027930		<20	<0.01	<10	<10	<1	<10	<2
I027931		<20	0.02	<10	<10	14	<10	16
I027932		<20	<0.01	<10	<10	6	<10	12
I027933		<20	<0.01	<10	<10	2	<10	10
I027934		<20	<0.01	<10	<10	2	<10	10
I027935		<20	<0.01	<10	<10	1	<10	8
I027936		<20	0.01	<10	<10	2	<10	14
I027937		20	<0.01	<10	<10	2	<10	8
I027938		20	<0.01	<10	<10	1	<10	5
I027939		20	<0.01	<10	<10	2	<10	6
I027940		<20	0.11	<10	<10	52	30	57
I027941		20	<0.01	<10	<10	1	<10	6

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I027942		6.15	<0.005	<0.2	0.23	5	<10	40	<0.5	<2	0.28	<0.5	3	8	71	1.45
I027943		4.00	0.014	<0.2	0.23	40	<10	40	<0.5	<2	0.37	<0.5	2	8	32	1.11
I027944		4.24	<0.005	<0.2	0.27	4	<10	50	<0.5	<2	0.46	<0.5	1	9	7	0.95
I027945		2.85	<0.005	<0.2	0.26	3	<10	50	<0.5	<2	0.41	<0.5	1	8	12	0.94
I027946		4.26	0.005	<0.2	0.25	22	<10	50	<0.5	<2	0.35	<0.5	2	10	31	1.10
I027947		4.46	<0.005	<0.2	0.27	5	<10	50	<0.5	<2	0.41	<0.5	1	9	15	0.95
I027948		4.23	<0.005	<0.2	0.27	4	<10	50	<0.5	<2	0.43	<0.5	2	9	12	0.93
I027949		4.63	<0.005	<0.2	0.23	4	<10	50	<0.5	<2	0.57	<0.5	2	8	36	1.01
I027950		0.56	<0.005	<0.2	0.01	<2	<10	20	<0.5	<2	>25.0	<0.5	2	1	<1	0.11
I027951		4.50	<0.005	<0.2	0.26	5	<10	50	<0.5	<2	0.46	<0.5	1	9	12	0.86
I027952		4.59	0.065	0.2	0.23	10	<10	40	<0.5	<2	0.26	<0.5	2	8	55	1.28
I027953		4.15	0.047	<0.2	0.39	8	<10	50	<0.5	<2	0.45	<0.5	2	8	58	2.28
I027954		4.77	0.072	0.9	0.43	351	<10	70	0.5	20	0.82	0.6	6	7	117	2.69
I027955		5.87	0.032	<0.2	0.99	5	<10	50	<0.5	<2	0.53	<0.5	3	7	60	2.80
I027956		4.54	0.022	<0.2	0.78	2	<10	40	<0.5	<2	0.37	<0.5	3	8	59	2.47
I027957		4.23	0.025	<0.2	1.22	<2	<10	70	0.5	<2	0.62	<0.5	5	15	72	2.79
I027958		4.47	0.008	0.2	1.04	3	<10	120	0.5	2	0.55	<0.5	5	19	91	2.89
I027959		3.68	<0.005	<0.2	1.57	2	<10	100	0.5	2	0.80	<0.5	4	13	40	2.58
I027960		0.10	0.283	0.9	1.54	6	<10	120	<0.5	2	0.96	<0.5	12	30	3170	3.20
I027961		3.61	0.033	0.7	1.17	2	<10	70	<0.5	11	0.69	<0.5	5	14	96	3.12
I027962		4.75	<0.005	<0.2	0.28	4	<10	80	<0.5	2	0.55	<0.5	3	9	46	1.16
I027963		4.22	0.012	<0.2	0.25	5	<10	60	<0.5	<2	0.56	<0.5	2	8	34	0.98
I027964		5.78	0.013	<0.2	0.26	8	<10	50	<0.5	<2	0.55	<0.5	2	7	30	0.93
I027965		6.24	0.005	<0.2	0.23	4	<10	70	<0.5	<2	0.46	<0.5	2	9	32	1.07
I027966		5.84	0.029	0.2	0.28	42	<10	50	0.5	3	0.49	<0.5	3	8	52	1.18
I027967		4.40	<0.005	<0.2	0.23	8	<10	60	<0.5	<2	0.48	<0.5	2	10	30	1.06
I027968		4.46	<0.005	0.2	0.22	18	<10	60	<0.5	<2	0.43	<0.5	2	10	40	1.07
I027969		4.71	0.008	0.4	0.26	322	<10	50	<0.5	7	0.34	<0.5	2	7	57	1.30
I027970		0.64	<0.005	<0.2	0.01	2	<10	30	<0.5	2	>25.0	<0.5	2	<1	1	0.10
I027971		4.52	0.013	0.3	0.23	1290	<10	60	<0.5	2	0.31	<0.5	4	8	66	1.41
I027972		4.35	<0.005	<0.2	0.29	15	<10	70	<0.5	2	0.44	<0.5	2	9	36	1.06
I027973		4.66	0.016	0.8	0.24	1775	<10	50	<0.5	2	0.21	<0.5	2	7	60	1.48
I027974		6.19	0.228	<0.2	0.23	24	<10	50	<0.5	<2	0.43	<0.5	2	9	24	0.91
I027975		6.50	0.033	<0.2	0.23	9	<10	60	<0.5	<2	0.43	<0.5	2	9	29	1.01
I027976		5.68	<0.005	<0.2	0.21	18	<10	70	<0.5	<2	0.46	<0.5	2	8	21	0.95
I027977		6.10	<0.005	<0.2	0.22	12	<10	60	<0.5	2	0.48	<0.5	1	9	28	1.03
I027978		6.03	0.073	1.0	0.25	43	<10	50	<0.5	11	0.62	<0.5	3	6	110	1.37
I027979		3.45	<0.005	<0.2	0.27	17	<10	40	<0.5	<2	0.67	<0.5	1	8	25	0.96
I027980		0.10	0.297	1.0	1.60	6	<10	130	<0.5	<2	1.00	<0.5	12	30	3210	3.25
I027981		4.24	0.105	0.9	0.33	1325	<10	150	<0.5	5	0.65	3.5	2	6	47	1.69

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027942		<10	<1	0.15	20	0.05	120	3	0.05	1	70	5	0.80	<2	<1	10
I027943		<10	<1	0.14	20	0.05	188	3	0.05	<1	70	9	0.49	<2	1	12
I027944		<10	<1	0.14	20	0.05	307	6	0.05	<1	80	7	0.14	<2	1	17
I027945		<10	<1	0.14	20	0.05	253	4	0.05	<1	70	6	0.20	<2	1	14
I027946		<10	<1	0.16	20	0.05	186	1	0.05	<1	70	7	0.47	<2	1	10
I027947		<10	<1	0.14	20	0.06	183	1	0.05	<1	80	6	0.26	<2	1	13
I027948		<10	<1	0.14	20	0.06	204	7	0.06	2	70	6	0.18	<2	1	16
I027949		<10	<1	0.15	20	0.06	153	12	0.04	<1	70	5	0.43	<2	1	15
I027950		<10	<1	<0.01	<10	1.13	128	<1	0.01	<1	70	2	0.01	<2	1	89
I027951		<10	<1	0.15	20	0.05	209	4	0.06	<1	70	6	0.18	<2	1	14
I027952		<10	<1	0.17	20	0.06	111	1	0.04	1	70	4	0.62	<2	<1	9
I027953		<10	<1	0.15	20	0.19	199	1	0.04	<1	70	3	0.78	<2	5	13
I027954		<10	<1	0.19	20	0.40	270	4	0.03	<1	80	30	1.17	<2	4	27
I027955		10	<1	0.25	20	0.62	201	2	0.05	1	210	4	0.65	<2	8	16
I027956		10	<1	0.12	20	0.49	141	5	0.05	<1	160	4	0.62	<2	8	10
I027957		10	<1	0.30	20	0.86	229	2	0.04	4	250	4	0.62	<2	8	18
I027958		10	1	0.22	20	0.80	279	2	0.04	9	220	6	0.70	<2	7	19
I027959		10	1	0.59	20	1.17	234	5	0.05	6	200	9	0.28	<2	6	31
I027960		10	<1	0.20	10	0.76	464	250	0.09	23	670	10	0.48	<2	5	48
I027961		10	<1	0.17	20	1.01	249	2	0.04	3	290	14	0.75	<2	7	25
I027962		<10	<1	0.17	20	0.14	125	4	0.04	1	60	6	0.45	<2	1	23
I027963		<10	<1	0.18	20	0.05	128	4	0.04	1	80	5	0.41	<2	1	17
I027964		<10	<1	0.20	20	0.04	134	2	0.04	<1	80	5	0.38	<2	<1	16
I027965		<10	<1	0.17	20	0.05	148	4	0.06	<1	70	6	0.40	<2	1	16
I027966		<10	<1	0.22	20	0.03	134	6	0.02	<1	80	9	0.67	<2	<1	14
I027967		<10	<1	0.17	20	0.04	222	1	0.05	1	70	8	0.36	<2	1	17
I027968		<10	<1	0.16	20	0.04	146	1	0.05	<1	70	7	0.46	<2	1	15
I027969		<10	<1	0.19	20	0.03	114	1	0.03	1	70	14	0.71	<2	<1	14
I027970		<10	<1	0.01	<10	0.65	115	<1	0.01	<1	70	<2	0.01	<2	1	87
I027971		<10	<1	0.17	20	0.04	107	1	0.05	1	70	9	0.74	<2	<1	14
I027972		<10	<1	0.19	20	0.05	154	1	0.07	1	80	6	0.33	<2	1	19
I027973		<10	<1	0.17	20	0.05	104	1	0.04	<1	70	20	0.86	2	<1	13
I027974		<10	<1	0.16	20	0.04	141	4	0.05	1	70	6	0.34	<2	1	14
I027975		<10	<1	0.16	20	0.04	151	1	0.05	1	70	5	0.40	<2	1	13
I027976		<10	<1	0.15	20	0.04	202	3	0.05	<1	70	8	0.30	<2	1	17
I027977		<10	<1	0.16	20	0.05	161	3	0.05	1	70	8	0.40	<2	1	17
I027978		<10	<1	0.18	20	0.05	185	2	0.05	<1	70	14	0.73	<2	1	21
I027979		<10	<1	0.17	20	0.07	192	10	0.04	<1	70	6	0.39	<2	1	20
I027980		10	<1	0.21	10	0.76	472	253	0.09	24	670	9	0.49	2	5	50
I027981		<10	<1	0.18	10	0.13	193	11	0.01	<1	70	31	1.35	3	<1	21

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027942		20	<0.01	<10	<10	1	<10	13
I027943		20	<0.01	<10	<10	1	<10	13
I027944		20	<0.01	<10	<10	2	<10	12
I027945		20	<0.01	<10	<10	2	<10	11
I027946		20	<0.01	<10	<10	1	<10	9
I027947		20	<0.01	<10	<10	2	<10	7
I027948		20	<0.01	<10	<10	2	<10	8
I027949		20	<0.01	<10	10	1	<10	7
I027950		<20	<0.01	<10	<10	<1	<10	<2
I027951		20	<0.01	<10	10	2	<10	8
I027952		20	<0.01	<10	<10	1	<10	5
I027953		<20	<0.01	<10	<10	2	<10	11
I027954		<20	<0.01	<10	<10	1	<10	46
I027955		<20	0.02	<10	<10	4	<10	20
I027956		<20	0.01	<10	<10	2	<10	16
I027957		<20	0.02	<10	<10	7	<10	22
I027958		<20	0.01	<10	<10	17	<10	27
I027959		<20	0.05	<10	<10	29	<10	31
I027960		<20	0.15	<10	<10	65	10	56
I027961		<20	0.01	<10	<10	38	<10	25
I027962		20	<0.01	<10	10	3	<10	7
I027963		20	<0.01	<10	<10	1	<10	6
I027964		20	<0.01	<10	<10	1	<10	7
I027965		20	<0.01	<10	<10	1	<10	8
I027966		20	<0.01	<10	10	1	<10	7
I027967		20	<0.01	<10	<10	1	<10	13
I027968		20	<0.01	<10	<10	1	<10	12
I027969		20	<0.01	<10	20	1	<10	12
I027970		<20	<0.01	<10	<10	<1	<10	<2
I027971		20	<0.01	<10	<10	1	<10	8
I027972		20	<0.01	<10	<10	2	<10	10
I027973		20	<0.01	<10	<10	1	<10	26
I027974		20	<0.01	<10	<10	1	<10	8
I027975		20	<0.01	<10	<10	1	<10	6
I027976		20	<0.01	<10	10	1	<10	9
I027977		20	<0.01	<10	<10	1	<10	9
I027978		20	<0.01	<10	<10	1	<10	19
I027979		20	<0.01	<10	<10	1	<10	13
I027980		<20	0.15	<10	<10	67	10	57
I027981		20	<0.01	<10	<10	1	<10	297

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I027982		5.98	0.010	0.2	0.29	641	<10	50	<0.5	2	0.43	<0.5	2	8	31	1.21
I027983		6.40	0.005	0.5	0.27	149	<10	50	<0.5	<2	0.56	<0.5	2	6	40	1.09
I027984		4.16	<0.005	<0.2	0.23	17	<10	50	<0.5	<2	0.49	<0.5	2	8	34	1.23
I027985		5.86	0.008	<0.2	0.22	7	<10	50	<0.5	<2	0.55	<0.5	2	8	20	1.00
I027986		5.74	<0.005	0.4	0.21	69	<10	60	<0.5	5	0.48	<0.5	1	7	27	1.12
I027987		3.98	0.007	2.7	0.28	470	<10	90	<0.5	12	0.01	<0.5	2	4	22	0.98
I027988		7.59	0.009	1.6	0.28	187	<10	80	<0.5	10	0.02	<0.5	2	4	16	0.62
I027989		9.02	<0.005	<0.2	0.31	23	<10	60	<0.5	<2	0.02	<0.5	2	4	110	0.69
I027990		0.61	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	2	<1	2	0.11
I027991		8.79	<0.005	0.2	0.37	26	<10	70	<0.5	<2	0.04	<0.5	2	3	80	0.94
I027992		9.80	<0.005	<0.2	0.35	114	<10	160	<0.5	<2	0.13	<0.5	1	4	16	0.87
I027993		8.75	<0.005	0.3	0.28	18	<10	50	<0.5	3	0.03	2.5	3	6	11	0.94
I027994		9.40	0.011	<0.2	0.30	50	<10	70	<0.5	<2	0.03	0.6	3	5	11	1.23
I027995		9.24	<0.005	<0.2	0.24	12	<10	60	<0.5	<2	0.06	<0.5	2	6	19	1.05
I027996		8.22	<0.005	<0.2	0.26	15	<10	70	<0.5	<2	0.19	<0.5	3	6	24	1.09
I027997		4.57	0.012	0.2	0.26	20	<10	100	<0.5	<2	0.01	<0.5	1	5	18	1.00
I027998		4.34	<0.005	<0.2	0.25	12	<10	60	<0.5	<2	0.03	1.4	2	6	11	1.20
I027999		5.92	<0.005	<0.2	0.26	14	<10	60	<0.5	<2	0.02	<0.5	2	5	14	0.76
I028000		0.10	0.290	0.8	1.46	7	<10	120	<0.5	2	0.90	<0.5	11	29	3180	3.11
I028001		5.93	0.007	<0.2	0.24	10	<10	60	<0.5	<2	0.03	0.8	2	7	12	1.03
I028002		6.27	<0.005	<0.2	0.26	9	<10	50	<0.5	<2	0.04	1.1	3	6	11	0.97
I028003		5.60	0.008	0.2	0.37	1215	<10	90	<0.5	<2	0.01	<0.5	2	4	23	1.05
I028004		5.33	<0.005	<0.2	0.37	118	<10	150	<0.5	<2	0.01	<0.5	2	4	6	1.06

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027982		<10	<1	0.19	20	0.05	158	4	0.05	1	70	12	0.54	<2	1	16
I027983		<10	<1	0.18	20	0.05	125	4	0.03	<1	70	22	0.51	<2	<1	19
I027984		<10	<1	0.16	20	0.05	170	9	0.05	<1	70	9	0.56	<2	1	16
I027985		<10	<1	0.15	20	0.05	202	6	0.04	1	70	9	0.32	<2	1	17
I027986		<10	<1	0.16	20	0.05	182	9	0.05	<1	60	17	0.46	<2	1	15
I027987		<10	<1	0.25	10	0.01	34	13	0.01	2	40	85	0.16	11	1	4
I027988		<10	<1	0.25	20	0.01	31	1	0.01	<1	40	139	0.14	7	<1	4
I027989		<10	<1	0.18	20	0.01	93	2	0.04	2	70	8	0.11	<2	<1	5
I027990		<10	<1	0.01	<10	1.10	149	<1	<0.01	<1	70	<2	0.01	<2	1	85
I027991		<10	<1	0.18	20	0.01	62	3	0.04	<1	80	9	0.22	<2	<1	5
I027992		<10	<1	0.19	20	0.01	44	2	0.03	1	70	9	0.20	<2	<1	7
I027993		<10	<1	0.17	20	0.02	178	3	0.04	2	80	15	0.12	<2	1	5
I027994		<10	<1	0.19	30	0.01	159	2	0.05	2	90	10	0.17	<2	1	7
I027995		<10	<1	0.17	20	0.01	158	2	0.04	1	90	14	0.11	<2	1	7
I027996		<10	<1	0.19	20	0.02	369	1	0.05	1	80	7	0.10	2	1	10
I027997		<10	<1	0.22	20	0.01	32	1	0.06	<1	70	15	0.28	<2	<1	8
I027998		<10	<1	0.20	20	0.02	142	2	0.05	2	90	13	0.25	<2	<1	10
I027999		<10	<1	0.19	20	0.01	49	1	0.05	2	80	5	0.15	<2	<1	6
I028000		10	<1	0.19	10	0.74	450	240	0.08	23	660	10	0.48	2	5	44
I028001		<10	<1	0.17	20	0.01	99	4	0.05	1	60	10	0.22	<2	1	5
I028002		<10	<1	0.16	20	0.02	187	5	0.04	2	70	16	0.11	<2	1	4
I028003		<10	<1	0.24	20	0.01	35	3	0.03	1	60	18	0.25	<2	<1	5
I028004		<10	<1	0.27	20	<0.01	25	3	0.01	1	80	15	0.30	<2	<1	8

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I027982		20	<0.01	<10	<10	1	<10	11
I027983		20	<0.01	<10	<10	<1	<10	30
I027984		20	<0.01	<10	<10	1	<10	9
I027985		20	<0.01	<10	<10	1	<10	9
I027986		20	<0.01	<10	<10	1	<10	9
I027987		<20	<0.01	<10	<10	1	<10	4
I027988		<20	<0.01	<10	<10	1	<10	3
I027989		20	<0.01	<10	<10	1	<10	13
I027990		<20	<0.01	<10	<10	<1	<10	<2
I027991		20	<0.01	<10	<10	1	<10	14
I027992		20	<0.01	<10	<10	1	<10	15
I027993		20	<0.01	<10	10	1	<10	49
I027994		20	<0.01	<10	10	1	<10	57
I027995		20	<0.01	<10	10	1	<10	45
I027996		20	<0.01	<10	<10	1	<10	61
I027997		20	<0.01	<10	<10	1	<10	8
I027998		20	<0.01	<10	<10	1	<10	32
I027999		20	<0.01	<10	<10	1	<10	16
I028000		<20	0.13	<10	<10	62	10	56
I028001		20	<0.01	<10	<10	1	<10	26
I028002		20	<0.01	<10	10	1	<10	50
I028003		20	<0.01	<10	10	1	<10	10
I028004		20	<0.01	<10	<10	1	<10	8

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17180246

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17186566

Project: FREEGOLD MOUNTAIN

P.O. No.: 1005139- NOFREG- R1

This report is for 225 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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SUITE 1100
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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
E520976		10.40	0.018		<0.2	0.73	827	<10	60	1.3	4	1.68	0.5	41	6	166
E520977		13.74	0.058		<0.2	0.67	147	<10	30	0.7	4	0.90	<0.5	14	8	125
E520978		4.78	0.039		<0.2	0.82	45	<10	10	0.5	<2	0.34	<0.5	9	3	86
E520979		6.09	0.129		<0.2	0.72	48	<10	20	<0.5	10	0.28	<0.5	12	9	199
E520980		0.06	0.336		1.0	1.58	8	10	120	<0.5	<2	0.97	0.5	11	30	3220
E520981		6.25	0.134		<0.2	0.71	44	<10	10	0.6	5	1.26	<0.5	16	7	106
E520982		6.53	0.068		<0.2	0.79	49	<10	20	0.9	5	1.48	<0.5	17	17	99
E520983		6.67	0.063		<0.2	0.90	45	<10	110	1.1	4	2.37	<0.5	22	33	103
E520984		6.50	0.400		<0.2	0.99	32	<10	50	1.3	174	2.12	<0.5	21	19	207
E520985		6.20	0.396		<0.2	0.79	117	<10	20	1.1	12	0.97	<0.5	16	28	214
E520986		6.24	0.211		<0.2	0.73	90	<10	30	0.9	13	1.48	<0.5	13	31	100
E520987		3.80	0.212		<0.2	0.85	1935	<10	10	0.9	7	1.40	0.8	28	84	287
E520988		6.98	0.701		2.7	0.70	4940	<10	60	0.9	11	1.94	4.0	20	40	221
E520989		6.53	0.032		<0.2	0.70	209	<10	120	0.9	6	1.93	<0.5	12	26	80
E520990		0.45	0.006		<0.2	0.06	27	<10	20	<0.5	3	>25.0	<0.5	<1	2	5
E520991		6.25	0.005		<0.2	0.61	59	<10	90	0.7	4	1.54	<0.5	7	15	73
E520992		5.43	0.398		<0.2	0.57	2680	<10	120	0.7	2	3.03	<0.5	12	33	75
E520993		5.37	0.007		<0.2	0.70	76	<10	160	0.8	<2	1.56	<0.5	13	30	66
E520994		3.39	0.019		<0.2	0.92	104	<10	50	1.1	4	1.44	<0.5	12	34	61
E520995		5.01	0.477		<0.2	0.76	2300	<10	100	0.9	59	1.67	<0.5	23	9	200
E520996		4.86	0.173		<0.2	0.80	33	<10	60	0.8	14	1.19	<0.5	11	3	140
E520997		6.38	0.345		<0.2	0.83	46	<10	240	0.7	<2	1.55	<0.5	5	2	63
E520998		5.45	0.010		<0.2	0.82	82	<10	130	0.7	3	1.83	<0.5	8	4	88
E520999		4.79	0.051		<0.2	0.90	414	<10	60	1.2	3	3.67	<0.5	45	123	64
E521000		0.06	0.707		5.1	1.33	31	10	50	<0.5	<2	0.56	5.4	15	22	5420
E521251		6.58	0.095		<0.2	1.43	965	<10	190	2.5	10	4.95	0.7	48	241	119
E521252		3.93	0.121		<0.2	0.79	365	<10	60	1.0	5	1.80	<0.5	21	65	185
E521253		6.13	0.037		<0.2	0.87	511	<10	90	1.0	18	1.87	<0.5	17	28	174
E521254		5.88	0.260		0.5	0.66	380	<10	80	1.0	43	1.81	<0.5	20	21	450
E521255		5.09	4.10		16.2	0.37	>10000	<10	40	<0.5	161	1.12	19.5	20	11	758
E521256		5.31	1.255		1.8	0.39	5250	<10	50	<0.5	33	1.38	2.1	33	13	874
E521257		5.02	0.575		1.4	0.40	4030	<10	60	<0.5	28	1.39	0.6	20	12	446
E521258		5.31	0.698		0.9	0.42	3580	<10	70	<0.5	18	1.50	1.6	13	18	383
E521259		5.23	0.510		0.2	0.67	263	<10	30	0.9	11	2.01	<0.5	19	27	257
E521260		0.06	0.297		1.1	1.55	8	10	120	<0.5	<2	0.89	<0.5	11	29	3240
E521261		4.65	0.482		0.4	0.49	2410	<10	100	0.6	8	1.54	0.9	11	15	255
E521262		5.34	1.250		1.3	0.36	3550	<10	30	<0.5	19	4.68	1.7	14	13	547
E521263		4.69	0.966		1.3	0.28	4890	<10	70	<0.5	11	4.22	1.3	14	13	1150
E521264		3.76	>10.0	10.20	0.7	0.35	10000	<10	70	<0.5	24	1.18	<0.5	19	13	295
E521265		6.94	1.520		0.4	0.41	2250	<10	20	<0.5	6	0.62	<0.5	20	18	208

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ES20976		8.41	<10	1	0.15	10	0.96	1185	<1	0.01	18	690	11	2.75	19	19
ES20977		4.09	<10	<1	0.17	10	0.14	291	<1	0.01	12	270	7	2.47	10	8
ES20978		2.34	<10	1	0.16	10	0.05	52	1	0.01	10	50	5	2.45	2	3
ES20979		4.91	<10	1	0.16	10	0.05	20	2	0.01	26	90	6	5.37	6	3
ES20980		3.11	10	<1	0.20	10	0.75	468	274	0.09	24	660	9	0.49	2	5
ES20981		3.56	<10	<1	0.15	10	0.49	363	2	0.01	16	90	8	2.81	5	6
ES20982		3.95	<10	<1	0.16	20	0.70	537	3	0.01	17	430	6	1.89	3	9
ES20983		4.55	<10	<1	0.10	30	0.98	683	2	0.01	22	820	4	1.64	5	13
ES20984		5.17	<10	1	0.12	20	1.09	534	1	0.01	16	680	5	2.02	7	17
ES20985		4.78	<10	1	0.14	20	0.70	377	3	0.01	38	610	4	2.18	7	9
ES20986		2.93	<10	<1	0.15	10	0.51	362	3	0.01	39	480	2	1.44	10	7
ES20987		9.85	<10	<1	0.20	<10	0.37	120	2	0.01	175	580	7	>10.0	56	4
ES20988		5.01	<10	<1	0.22	10	0.84	695	2	0.01	71	460	547	3.16	88	8
ES20989		2.77	<10	<1	0.22	10	0.68	259	2	0.01	36	510	6	1.17	4	5
ES20990		0.14	<10	1	0.01	<10	1.10	145	<1	0.01	<1	70	7	0.04	2	<1
ES20991		2.09	<10	<1	0.22	10	0.66	199	3	0.01	31	300	5	0.80	2	3
ES20992		3.01	<10	1	0.21	10	0.81	378	3	0.01	72	630	39	1.48	6	5
ES20993		2.72	<10	<1	0.14	10	0.76	300	3	0.01	60	560	2	0.92	<2	7
ES20994		2.90	<10	<1	0.07	10	0.58	298	2	0.01	40	700	3	0.78	7	15
ES20995		4.23	<10	<1	0.16	10	0.61	280	2	0.01	19	330	4	1.98	24	9
ES20996		3.05	<10	1	0.09	10	0.51	216	1	0.01	12	210	2	1.40	3	8
ES20997		2.15	<10	<1	0.06	<10	0.55	222	<1	0.01	3	150	6	0.92	11	6
ES20998		2.75	<10	<1	0.10	<10	0.70	296	1	0.01	6	220	5	1.04	24	7
ES20999		5.13	<10	<1	0.06	<10	1.41	722	1	0.01	199	460	4	1.21	25	17
ES21000		6.01	<10	<1	0.30	<10	0.39	742	125	0.04	17	510	110	4.25	4	2
ES21251		8.46	10	1	0.26	<10	2.37	1175	1	0.01	292	550	3	1.21	10	37
ES21252		5.24	<10	<1	0.09	10	0.79	494	3	0.01	92	410	4	1.61	31	11
ES21253		3.66	<10	<1	0.12	20	0.75	359	3	0.01	38	1000	4	1.07	8	9
ES21254		4.06	<10	<1	0.14	20	0.70	334	2	<0.01	44	860	9	1.51	15	8
ES21255		4.98	<10	1	0.18	<10	0.32	1380	5	<0.01	39	540	2910	4.14	626	1
ES21256		4.10	<10	<1	0.22	<10	0.16	285	11	<0.01	49	870	97	3.92	233	1
ES21257		3.24	<10	<1	0.26	<10	0.37	391	9	<0.01	52	1110	60	3.34	219	1
ES21258		4.21	<10	1	0.26	<10	0.32	363	15	<0.01	59	1420	157	3.23	87	2
ES21259		5.48	<10	1	0.19	10	0.71	269	3	<0.01	47	740	5	2.96	21	10
ES21260		3.14	10	<1	0.20	10	0.74	458	255	0.08	25	650	10	0.47	2	5
ES21261		3.29	<10	<1	0.26	10	0.56	301	5	<0.01	35	800	38	2.08	55	4
ES21262		4.73	<10	<1	0.22	<10	1.49	611	10	<0.01	45	710	93	3.75	116	5
ES21263		3.61	<10	1	0.18	<10	0.99	411	6	<0.01	39	630	90	2.87	138	3
ES21264		3.74	<10	<1	0.24	<10	0.28	202	6	<0.01	63	790	27	3.47	66	1
ES21265		3.37	<10	1	0.25	10	0.24	218	9	<0.01	61	1210	9	2.66	27	3

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
ES20976		57	<20	<0.01	<10	<10	103	<10	73
ES20977		34	<20	<0.01	<10	<10	29	<10	23
ES20978		30	<20	<0.01	<10	<10	7	<10	12
ES20979		28	<20	<0.01	10	<10	12	<10	14
ES20980		48	<20	0.16	<10	<10	64	10	66
ES20981		40	<20	<0.01	<10	<10	14	<10	22
ES20982		56	<20	<0.01	<10	<10	32	<10	21
ES20983		71	20	<0.01	<10	<10	66	<10	38
ES20984		78	<20	<0.01	<10	<10	69	<10	25
ES20985		37	<20	<0.01	<10	<10	55	<10	22
ES20986		44	<20	<0.01	<10	<10	50	<10	51
ES20987		24	<20	<0.01	10	<10	33	<10	44
ES20988		74	<20	<0.01	<10	<10	51	<10	428
ES20989		76	<20	<0.01	<10	<10	47	<10	23
ES20990		92	<20	<0.01	<10	<10	1	<10	5
ES20991		70	<20	<0.01	<10	<10	21	<10	16
ES20992		76	<20	<0.01	<10	<10	46	<10	44
ES20993		45	<20	<0.01	<10	<10	54	<10	23
ES20994		38	<20	<0.01	<10	<10	67	<10	20
ES20995		41	<20	<0.01	<10	<10	34	<10	19
ES20996		38	<20	<0.01	<10	<10	22	<10	12
ES20997		42	<20	<0.01	<10	<10	14	<10	18
ES20998		37	<20	<0.01	<10	<10	16	<10	17
ES20999		117	<20	<0.01	<10	<10	87	<10	51
ES21000		39	<20	0.03	<10	<10	25	<10	881
ES21251		152	<20	0.01	<10	<10	154	<10	63
ES21252		38	<20	<0.01	<10	<10	84	<10	30
ES21253		44	<20	<0.01	<10	<10	69	<10	23
ES21254		49	<20	<0.01	<10	<10	52	<10	31
ES21255		30	<20	<0.01	<10	<10	21	<10	2320
ES21256		47	<20	<0.01	<10	<10	31	<10	223
ES21257		47	<20	<0.01	<10	<10	28	<10	83
ES21258		58	<20	<0.01	10	<10	43	<10	190
ES21259		59	<20	<0.01	<10	<10	68	<10	17
ES21260		46	<20	0.14	<10	<10	62	10	58
ES21261		49	<20	<0.01	<10	<10	34	<10	95
ES21262		119	<20	<0.01	<10	<10	47	<10	189
ES21263		126	<20	<0.01	10	<10	27	<10	138
ES21264		44	<20	<0.01	<10	<10	21	<10	29
ES21265		33	<20	<0.01	<10	<10	42	<10	33

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ES21266		8.17	1.035		0.3	0.48	1480	<10	30	0.6	6	0.76	<0.5	17	25	176
ES21267		7.66	0.019		0.2	0.70	179	10	170	1.2	4	1.13	<0.5	20	25	96
ES21268		6.76	0.175		0.5	0.76	727	10	100	1.0	32	0.82	<0.5	19	23	247
ES21269		6.97	0.215		0.6	0.58	170	<10	80	0.8	17	1.93	<0.5	22	42	306
ES21270		0.42	0.005		<0.2	0.05	8	<10	30	<0.5	<2	>25.0	<0.5	<1	1	4
ES21271		5.51	0.065		0.7	0.59	102	<10	210	0.6	68	1.28	<0.5	7	4	239
ES21272		6.55	0.064		0.6	0.59	358	<10	210	0.6	64	1.38	<0.5	7	2	345
ES21273		5.75	0.022		0.3	0.66	141	<10	190	0.6	9	1.20	<0.5	5	2	195
ES21274		6.48	0.102		0.2	0.67	591	<10	260	0.5	25	1.00	<0.5	7	1	97
ES21275		5.96	0.360		0.3	0.73	290	<10	240	0.6	46	1.02	<0.5	5	1	173
ES21276		5.00	0.085		0.5	0.75	1150	<10	140	0.6	52	1.34	<0.5	10	1	249
ES21277		4.89	0.033		0.3	0.68	519	<10	140	0.6	14	1.24	<0.5	8	1	167
ES21278		5.12	0.028		0.4	0.70	204	<10	190	0.7	17	1.02	<0.5	19	18	251
ES21279		5.99	0.018		0.3	0.75	395	<10	60	0.7	10	1.37	<0.5	12	7	157
ES21280		0.06	0.746		5.5	1.32	31	10	50	<0.5	2	0.55	5.1	15	21	5520
ES21281		5.17	0.417		0.6	0.59	8360	<10	60	0.8	110	1.81	<0.5	74	18	468
ES21282		4.43	0.068		0.7	0.88	527	<10	30	1.0	16	1.39	<0.5	25	20	416
ES21283		6.48	0.060		<0.2	0.94	186	<10	120	0.9	5	1.43	<0.5	20	17	119
ES21284		6.50	0.081		0.2	1.03	42	<10	140	1.0	27	1.09	<0.5	18	20	195
ES21285		6.64	0.047		0.2	1.67	278	<10	70	0.8	33	1.37	<0.5	11	50	227
ES21286		5.55	0.062		0.3	0.95	43	<10	30	0.9	14	1.31	<0.5	13	23	251
ES21287		4.39	0.031		<0.2	1.10	173	<10	90	1.0	5	1.39	<0.5	13	48	64
ES21288		6.60	0.048		<0.2	1.13	315	<10	180	0.9	6	2.50	<0.5	18	66	77
ES21289		7.53	0.028		<0.2	1.68	50	<10	100	0.5	4	2.50	<0.5	25	155	69
ES21290		0.41	<0.005		<0.2	0.07	2	<10	20	<0.5	<2	>25.0	<0.5	<1	3	6
ES21291		6.97	0.023		0.3	1.80	28	<10	60	1.2	20	2.87	<0.5	32	195	331
ES21292		6.06	0.223		0.2	1.00	102	<10	70	1.9	14	3.61	<0.5	35	202	283
ES21293		6.87	0.306		0.2	1.03	108	<10	90	1.4	23	3.07	<0.5	37	142	275
ES21294		6.17	0.035		<0.2	1.05	41	<10	130	1.1	3	2.23	<0.5	16	63	60
ES21295		6.44	0.021		<0.2	1.37	38	<10	130	1.0	6	1.51	<0.5	14	58	67
ES21296		7.07	0.045		<0.2	1.19	34	<10	160	0.9	2	1.26	<0.5	14	36	93
ES21297		6.80	0.023		<0.2	1.17	32	<10	130	0.8	<2	0.88	<0.5	12	36	66
ES21298		6.65	0.061		<0.2	1.01	140	<10	70	0.9	<2	1.12	<0.5	13	41	56
ES21299		6.37	0.018		<0.2	1.28	47	<10	60	0.9	2	1.18	<0.5	16	53	69
ES21300		0.06	0.314		0.9	1.63	6	10	130	<0.5	2	0.93	<0.5	12	29	3400
ES21301		5.53	0.047		<0.2	0.94	70	<10	40	1.0	4	1.04	<0.5	16	26	190
ES21302		5.10	0.014		<0.2	1.45	36	<10	50	1.2	2	2.24	<0.5	15	30	144
ES21303		5.07	0.113		0.2	0.65	140	<10	90	0.5	9	1.76	<0.5	6	3	243
ES21304		4.89	0.187		0.4	0.64	1580	<10	20	0.5	23	0.93	<0.5	11	3	494
ES21305		6.94	0.070		<0.2	1.20	32	<10	60	1.1	4	1.33	<0.5	14	29	124

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ES21266		3.23	<10	<1	0.22	10	0.32	305	14	<0.01	72	1010	5	2.03	23	4
ES21267		3.54	<10	<1	0.24	20	0.77	446	3	<0.01	49	580	4	0.88	16	8
ES21268		2.90	<10	<1	0.27	10	0.47	213	5	<0.01	41	690	3	1.69	22	8
ES21269		4.23	<10	1	0.17	10	0.55	419	8	<0.01	75	1330	6	2.04	24	9
ES21270		0.10	<10	<1	0.02	<10	0.85	116	<1	<0.01	<1	70	<2	0.01	3	<1
ES21271		1.47	<10	<1	0.26	10	0.40	222	1	<0.01	5	270	10	1.06	18	1
ES21272		1.21	<10	<1	0.26	10	0.27	90	1	<0.01	2	240	7	1.08	31	<1
ES21273		1.21	<10	<1	0.27	10	0.32	114	1	<0.01	1	230	8	0.94	23	1
ES21274		1.30	<10	<1	0.25	10	0.32	127	<1	<0.01	2	240	4	0.66	15	1
ES21275		1.29	<10	<1	0.25	20	0.29	146	<1	<0.01	2	250	8	0.68	9	<1
ES21276		1.33	<10	<1	0.26	20	0.35	161	<1	<0.01	2	250	8	0.63	14	<1
ES21277		1.57	<10	1	0.24	10	0.36	143	<1	<0.01	3	250	7	0.86	18	<1
ES21278		3.33	<10	<1	0.21	20	0.43	441	5	<0.01	42	990	6	1.01	27	5
ES21279		1.86	<10	<1	0.20	10	0.41	230	11	<0.01	17	410	6	0.80	12	2
ES21280		6.28	<10	<1	0.29	<10	0.40	749	122	0.03	17	520	116	4.43	2	2
ES21281		5.55	<10	1	0.22	10	0.48	433	5	<0.01	85	480	5	2.77	19	4
ES21282		4.88	<10	<1	0.15	30	0.63	697	2	<0.01	31	1080	7	1.53	18	6
ES21283		4.39	<10	<1	0.13	30	0.64	575	2	<0.01	25	910	2	1.05	13	6
ES21284		3.95	<10	1	0.12	30	0.50	496	2	<0.01	27	1030	4	1.15	14	6
ES21285		3.96	10	<1	0.51	30	1.36	132	<1	0.05	26	1160	3	1.31	3	7
ES21286		3.59	<10	<1	0.17	30	0.76	97	2	0.03	24	910	3	1.61	4	5
ES21287		1.68	10	<1	0.39	20	0.69	82	9	0.02	47	920	2	0.38	2	6
ES21288		2.98	<10	<1	0.42	20	1.06	263	3	0.02	68	760	2	0.78	3	8
ES21289		3.67	10	1	0.40	10	1.42	350	3	0.16	134	1250	2	0.69	<2	8
ES21290		0.16	<10	<1	0.03	<10	1.83	143	<1	<0.01	<1	110	2	0.01	2	<1
ES21291		7.85	10	<1	0.37	10	2.12	421	1	0.07	199	1130	<2	2.97	2	12
ES21292		9.81	<10	1	0.06	20	2.02	877	1	<0.01	212	1320	2	2.19	10	20
ES21293		7.29	<10	1	0.11	30	1.47	570	1	<0.01	183	1070	4	2.27	3	15
ES21294		3.40	<10	<1	0.25	20	1.07	301	2	<0.01	61	520	4	0.64	2	8
ES21295		2.90	10	<1	0.53	20	0.96	168	2	0.01	48	390	4	0.72	2	4
ES21296		3.08	<10	<1	0.49	30	0.85	159	2	<0.01	41	520	2	0.73	2	4
ES21297		2.52	<10	<1	0.47	20	0.64	116	4	0.01	38	480	3	0.73	2	3
ES21298		2.63	<10	1	0.23	30	0.67	125	5	<0.01	46	630	2	0.70	2	6
ES21299		2.22	10	<1	0.34	20	0.64	96	3	<0.01	52	930	3	0.65	3	6
ES21300		3.28	10	<1	0.21	10	0.77	475	278	0.09	25	680	9	0.50	<2	5
ES21301		3.32	<10	<1	0.22	40	0.52	86	2	0.05	21	430	4	1.56	8	5
ES21302		3.40	10	1	0.42	40	0.94	151	2	0.05	26	470	4	1.32	10	8
ES21303		3.23	<10	<1	0.34	10	0.64	124	5	<0.01	9	690	7	1.80	28	1
ES21304		5.68	<10	<1	0.37	10	0.48	143	2	<0.01	9	670	4	3.71	62	1
ES21305		3.18	10	<1	0.38	40	0.68	141	1	0.01	27	550	5	1.11	7	6

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
ES21266		62	<20	<0.01	<10	<10	66	<10	39
ES21267		76	<20	<0.01	<10	<10	45	<10	30
ES21268		48	<20	0.01	10	<10	52	<10	21
ES21269		68	<20	<0.01	<10	<10	66	<10	28
ES21270		89	<20	<0.01	<10	<10	1	<10	<2
ES21271		41	<20	<0.01	<10	<10	2	<10	16
ES21272		39	<20	<0.01	<10	<10	1	<10	19
ES21273		39	<20	<0.01	<10	<10	2	<10	13
ES21274		35	<20	<0.01	<10	<10	1	<10	10
ES21275		39	<20	<0.01	<10	<10	1	<10	19
ES21276		45	<20	<0.01	<10	<10	1	<10	19
ES21277		43	<20	<0.01	<10	<10	1	<10	16
ES21278		34	<20	<0.01	<10	<10	52	<10	40
ES21279		71	<20	<0.01	<10	<10	16	<10	20
ES21280		40	<20	0.02	<10	<10	25	<10	883
ES21281		44	<20	<0.01	<10	<10	36	<10	30
ES21282		31	<20	<0.01	<10	<10	38	<10	52
ES21283		29	<20	<0.01	<10	<10	34	<10	38
ES21284		32	<20	<0.01	<10	<10	36	<10	38
ES21285		53	<20	0.04	<10	<10	67	<10	18
ES21286		54	<20	<0.01	<10	<10	36	<10	14
ES21287		48	<20	0.03	<10	<10	134	<10	19
ES21288		91	<20	0.06	<10	<10	96	<10	26
ES21289		92	<20	0.27	<10	<10	93	<10	37
ES21290		87	<20	0.01	<10	<10	2	<10	2
ES21291		99	<20	0.14	<10	<10	106	<10	38
ES21292		135	<20	0.01	<10	<10	127	<10	67
ES21293		114	<20	0.01	<10	<10	101	<10	57
ES21294		99	<20	0.02	<10	<10	63	<10	24
ES21295		61	<20	0.04	<10	<10	48	<10	17
ES21296		47	<20	0.03	<10	<10	48	<10	11
ES21297		28	<20	0.03	<10	<10	58	<10	17
ES21298		40	<20	0.01	<10	<10	66	<10	13
ES21299		38	<20	0.02	<10	<10	87	<10	13
ES21300		48	<20	0.14	<10	<10	64	10	59
ES21301		42	<20	0.01	<10	<10	37	<10	12
ES21302		84	20	0.03	<10	<10	37	<10	14
ES21303		92	<20	<0.01	<10	<10	6	<10	8
ES21304		47	<20	<0.01	<10	<10	6	<10	13
ES21305		50	20	0.03	<10	<10	33	<10	12

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
ES21306		7.16	0.038		0.2	1.27	25	<10	110	1.2	3	1.78	<0.5	14	28	156
ES21307		6.40	0.040		<0.2	0.99	9	<10	50	1.0	2	1.73	<0.5	10	18	74
ES21308		6.95	0.031		<0.2	1.27	8	<10	50	1.3	<2	1.24	<0.5	9	28	107
ES21309		6.81	0.045		<0.2	0.82	15	<10	50	1.2	2	1.94	<0.5	9	17	108
ES21310		0.38	<0.005		<0.2	0.06	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2
ES21311		6.65	0.045		0.2	0.39	15	<10	80	0.7	2	1.25	<0.5	7	6	141
ES21312		6.51	0.045		<0.2	0.70	31	<10	50	1.0	3	1.61	<0.5	10	16	156
ES21313		6.83	0.164		0.3	0.70	16	<10	60	0.8	<2	1.21	<0.5	11	30	234
ES21314		6.98	0.147		0.2	0.95	20	<10	40	1.1	4	1.44	<0.5	13	33	257
ES21315		6.64	0.067		0.2	0.78	13	<10	50	1.1	3	2.45	<0.5	9	15	93
ES21316		6.45	0.070		<0.2	0.71	31	<10	310	1.1	3	3.49	<0.5	12	16	123
ES21317		6.69	0.019		<0.2	0.81	26	<10	40	1.0	2	1.50	<0.5	11	14	75
ES21318		7.62	0.049		<0.2	0.98	32	<10	50	1.2	2	2.27	<0.5	7	23	122
ES21319		6.91	0.042		<0.2	1.45	18	<10	50	1.1	4	1.15	<0.5	11	41	140
ES21320		0.06	0.346		1.3	1.65	7	10	130	<0.5	<2	0.95	<0.5	12	30	3400
ES21321		6.55	0.031		0.2	1.63	25	<10	50	1.1	3	1.57	0.5	10	51	100
ES21322		6.97	0.075		<0.2	2.69	19	<10	70	1.3	9	3.20	<0.5	10	37	97
ES21323		7.26	0.829		0.5	2.78	22	<10	30	1.1	34	1.45	<0.5	24	47	549
ES21324		6.54	0.302		<0.2	1.49	22	<10	40	1.4	12	1.78	<0.5	19	36	292
ES21325		6.11	0.747		<0.2	1.30	48	<10	90	1.0	4	1.42	<0.5	18	42	182
ES21326		6.12	0.259		<0.2	0.82	18	<10	290	0.9	4	1.59	<0.5	10	15	75
ES21327		6.51	0.116		<0.2	0.64	29	<10	240	0.7	<2	1.97	<0.5	8	12	67
ES21328		5.86	0.401		<0.2	0.76	53	<10	220	0.8	4	1.64	<0.5	10	16	121
ES21329		6.13	0.598		0.3	0.86	52	<10	250	1.0	13	2.07	<0.5	11	49	246
ES21330		0.46	0.011		<0.2	0.05	2	10	20	<0.5	<2	>25.0	<0.5	<1	1	2
ES21331		6.94	1.500		2.7	0.47	6460	<10	60	0.7	171	3.36	0.8	16	27	734
ES21332		6.30	1.140		2.5	0.45	2260	<10	50	0.5	181	1.67	1.0	20	10	1150
ES21333		5.95	1.805		2.0	0.59	1310	<10	70	0.6	40	1.20	<0.5	12	7	1155
ES21334		6.54	0.665		1.9	0.50	1750	<10	50	0.6	51	1.06	<0.5	14	12	1095
ES21335		6.32	0.987		1.2	0.64	1010	<10	180	0.7	95	1.07	<0.5	10	16	681
ES21336		6.71	0.554		2.8	0.55	247	<10	80	0.6	201	1.26	<0.5	22	16	1710
ES21337		6.33	0.223		0.6	0.71	368	<10	110	0.7	19	1.75	<0.5	11	18	396
ES21338		6.56	0.405		0.5	0.87	44	<10	50	0.7	17	1.27	<0.5	11	42	456
ES21339		7.22	0.123		0.4	0.52	309	<10	80	0.5	9	1.15	<0.5	8	13	275
ES21340		0.06	0.331		2.3	1.48	7	<10	120	<0.5	<2	0.89	<0.5	11	26	3100
ES21341		7.25	0.208		0.2	0.51	63	<10	200	<0.5	2	2.57	<0.5	6	10	128
ES21342		6.90	0.281		0.4	0.63	489	<10	270	0.6	24	1.93	<0.5	9	15	270
ES21343		7.84	0.030		0.2	0.93	31	<10	240	0.7	6	1.24	<0.5	10	20	150
ES21344		7.32	0.273		0.9	0.67	192	<10	210	0.6	35	1.79	<0.5	11	11	674
ES21345		6.10	0.075		0.7	0.69	192	<10	150	0.8	13	1.39	<0.5	14	14	490

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ES21306		2.92	10	<1	0.38	40	0.71	114	1	0.02	24	440	4	0.93	3	6
ES21307		1.89	<10	<1	0.35	30	0.54	99	2	0.01	16	250	5	0.51	<2	4
ES21308		2.37	10	1	0.45	30	0.60	109	1	0.07	18	400	5	0.67	<2	6
ES21309		2.30	<10	<1	0.35	20	0.51	83	2	0.02	13	240	4	0.94	2	4
ES21310		0.08	<10	1	0.01	<10	0.45	82	<1	<0.01	<1	70	3	0.01	3	<1
ES21311		1.55	<10	1	0.19	10	0.29	42	<1	0.03	2	160	3	0.86	<2	1
ES21312		2.13	<10	<1	0.25	30	0.55	67	1	0.02	17	250	3	0.93	<2	4
ES21313		2.60	<10	<1	0.22	30	0.49	79	2	0.03	28	380	4	1.08	<2	5
ES21314		3.14	<10	<1	0.27	30	0.61	85	3	0.02	31	550	2	1.37	2	8
ES21315		2.10	<10	1	0.17	30	0.83	103	1	<0.01	20	320	5	0.46	<2	6
ES21316		2.62	<10	<1	0.17	40	1.15	133	1	<0.01	25	430	2	0.66	<2	6
ES21317		2.03	<10	1	0.18	30	0.44	106	1	<0.01	20	360	5	0.61	<2	5
ES21318		1.91	<10	1	0.22	30	0.47	90	1	0.01	18	430	4	0.76	<2	4
ES21319		3.15	10	<1	0.24	30	0.80	128	1	0.05	25	590	5	1.20	<2	5
ES21320		3.32	10	1	0.21	10	0.78	484	273	0.09	25	670	10	0.50	3	5
ES21321		3.22	10	<1	0.20	30	0.86	185	2	0.07	28	580	34	1.05	<2	6
ES21322		4.24	10	1	0.24	30	0.72	255	2	0.17	32	530	4	1.59	<2	5
ES21323		14.80	10	1	0.21	30	0.74	299	3	0.22	49	490	<2	>10.0	<2	6
ES21324		8.14	10	<1	0.14	30	0.57	246	3	0.04	35	470	3	3.89	4	6
ES21325		3.44	10	<1	0.51	30	0.59	99	3	<0.01	68	380	5	1.52	4	6
ES21326		2.53	<10	<1	0.22	30	0.59	103	2	<0.01	23	300	5	0.78	5	4
ES21327		1.82	<10	<1	0.21	30	0.60	96	1	<0.01	17	470	6	0.41	4	4
ES21328		2.52	<10	<1	0.21	30	0.66	108	7	<0.01	22	430	5	0.80	3	5
ES21329		2.71	<10	<1	0.22	30	0.77	123	10	<0.01	68	610	8	0.85	4	8
ES21330		0.08	<10	2	0.01	<10	0.40	102	<1	<0.01	<1	70	<2	0.01	4	<1
ES21331		3.94	<10	1	0.23	10	0.84	297	6	<0.01	92	520	221	2.61	66	6
ES21332		2.49	<10	1	0.27	10	0.42	124	2	<0.01	22	300	106	2.17	121	3
ES21333		2.16	<10	<1	0.28	10	0.40	101	3	<0.01	13	250	10	1.59	193	2
ES21334		3.06	<10	<1	0.25	20	0.39	110	2	<0.01	18	300	12	2.32	60	3
ES21335		2.50	<10	1	0.18	30	0.48	120	2	<0.01	21	290	20	1.10	75	5
ES21336		3.98	<10	1	0.17	20	0.48	117	2	<0.01	21	430	15	2.21	54	5
ES21337		2.77	<10	<1	0.21	20	0.69	108	2	<0.01	19	280	5	1.23	30	5
ES21338		3.31	<10	1	0.37	10	0.72	88	<1	0.01	23	680	4	1.48	13	6
ES21339		2.18	<10	1	0.16	20	0.46	97	1	<0.01	14	160	5	0.97	29	2
ES21340		3.02	10	1	0.19	10	0.70	434	253	0.08	23	630	8	0.45	4	5
ES21341		1.57	<10	1	0.16	10	0.57	119	2	<0.01	8	150	6	0.60	28	2
ES21342		2.24	<10	1	0.24	20	0.63	144	2	<0.01	22	560	6	0.78	48	4
ES21343		2.61	<10	1	0.30	20	0.59	143	1	<0.01	23	360	6	0.88	22	5
ES21344		2.38	<10	1	0.32	20	0.67	121	4	<0.01	24	440	12	1.16	89	2
ES21345		2.76	<10	<1	0.17	10	0.56	138	1	<0.01	18	240	19	1.40	24	4

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
ES21306		61	20	0.02	<10	<10	33	<10	10
ES21307		52	<20	0.02	<10	<10	21	<10	11
ES21308		59	<20	0.04	<10	<10	33	<10	11
ES21309		62	<20	0.02	<10	<10	19	<10	7
ES21310		95	<20	<0.01	<10	<10	<1	<10	<2
ES21311		39	<20	<0.01	<10	<10	7	<10	4
ES21312		79	<20	0.01	<10	<10	20	<10	8
ES21313		49	<20	0.01	<10	<10	36	<10	11
ES21314		57	<20	0.01	<10	<10	66	<10	9
ES21315		83	<20	<0.01	<10	<10	22	<10	12
ES21316		197	<20	<0.01	<10	<10	23	<10	8
ES21317		49	<20	0.01	<10	<10	20	<10	12
ES21318		80	<20	0.01	<10	<10	31	<10	12
ES21319		52	<20	0.02	<10	<10	43	<10	14
ES21320		49	<20	0.14	<10	<10	65	10	59
ES21321		63	<20	0.04	<10	<10	47	<10	53
ES21322		149	<20	0.06	<10	<10	40	<10	15
ES21323		102	<20	0.01	<10	10	71	<10	14
ES21324		113	<20	0.01	<10	<10	74	<10	14
ES21325		41	<20	0.04	<10	<10	37	<10	17
ES21326		50	<20	<0.01	<10	<10	18	<10	11
ES21327		79	<20	<0.01	<10	<10	16	<10	17
ES21328		72	<20	<0.01	<10	<10	19	<10	11
ES21329		88	<20	0.01	<10	<10	51	<10	26
ES21330		76	<20	<0.01	<10	<10	1	<10	4
ES21331		114	<20	<0.01	<10	<10	24	<10	54
ES21332		54	<20	<0.01	<10	<10	7	<10	77
ES21333		31	<20	<0.01	<10	<10	5	<10	27
ES21334		39	<20	<0.01	<10	<10	10	<10	31
ES21335		32	20	<0.01	<10	<10	19	<10	26
ES21336		36	<20	<0.01	<10	<10	17	<10	30
ES21337		53	<20	<0.01	<10	<10	19	<10	10
ES21338		47	<20	0.02	<10	<10	27	<10	10
ES21339		37	<20	<0.01	<10	<10	11	<10	12
ES21340		45	<20	0.13	<10	<10	58	10	55
ES21341		65	<20	<0.01	<10	<10	6	<10	24
ES21342		49	<20	<0.01	<10	<10	15	<10	16
ES21343		42	<20	0.01	<10	<10	23	<10	18
ES21344		57	<20	<0.01	<10	<10	10	<10	23
ES21345		48	<20	<0.01	<10	<10	15	<10	21

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ES21346		7.31	0.034		<0.2	0.76	26	<10	20	1.1	2	1.05	<0.5	9	20	56
ES21347		6.44	0.012		<0.2	0.67	131	<10	300	0.8	2	1.56	<0.5	8	20	74
ES21348		5.53	0.013		<0.2	0.72	24	<10	30	1.2	2	2.06	<0.5	10	17	104
ES21349		3.39	0.011		<0.2	0.73	74	<10	110	0.9	2	1.48	<0.5	6	16	79
ES21350		0.52	<0.005		<0.2	0.04	2	<10	10	<0.5	2	>25.0	<0.5	<1	1	1
ES21351		6.44	0.005		0.2	2.91	33	<10	230	<0.5	2	1.02	<0.5	13	19	59
ES21352		8.28	<0.005		0.2	3.36	12	<10	210	<0.5	2	1.12	<0.5	16	19	69
ES21353		4.98	0.012		0.8	4.02	12	<10	140	0.5	3	2.53	<0.5	20	28	610
ES21354		7.89	<0.005		0.2	4.07	5	<10	170	<0.5	2	1.81	<0.5	22	51	123
ES21355		7.91	<0.005		0.3	3.84	12	<10	340	<0.5	2	0.78	<0.5	19	60	63
ES21356		6.41	<0.005		0.5	3.62	11	<10	340	0.5	<2	0.77	<0.5	20	80	102
ES21357		6.25	<0.005		0.5	3.38	5	<10	310	<0.5	2	1.06	<0.5	18	71	62
ES21358		3.88	<0.005		0.2	2.51	7	<10	170	<0.5	<2	0.58	<0.5	14	22	38
ES21359		6.30	<0.005		<0.2	2.44	6	<10	170	<0.5	2	0.40	<0.5	11	16	41
ES21360		0.06	0.295		1.1	1.49	5	<10	120	<0.5	3	0.89	<0.5	11	26	3120
ES21361		5.52	0.009		0.3	3.06	4	<10	110	<0.5	3	0.94	<0.5	19	24	46
ES21362		8.38	0.005		<0.2	2.10	5	<10	70	<0.5	<2	1.27	<0.5	14	25	37
ES21363		8.32	0.008		0.5	3.70	3	<10	450	<0.5	<2	0.45	<0.5	21	24	84
ES21364		8.38	0.030		<0.2	1.96	32	<10	90	0.6	2	0.85	<0.5	15	15	182
ES21365		8.93	0.051		0.2	1.40	22	<10	50	0.7	5	0.62	<0.5	8	9	181
ES21366		7.30	0.030		0.2	1.79	36	<10	110	0.9	4	0.14	<0.5	17	76	275
ES21367		5.61	0.577		0.2	2.17	37	<10	80	1.1	8	0.25	<0.5	24	28	145
ES21368		5.18	0.014		0.2	2.62	8	<10	70	0.7	<2	0.76	<0.5	25	14	95
ES21369		7.60	0.051		0.4	1.95	5	<10	70	<0.5	4	0.53	<0.5	25	10	109
ES21370		0.41	<0.005		<0.2	0.15	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	2	20
ES21371		9.06	0.023		0.5	1.15	6	<10	70	<0.5	5	0.67	<0.5	24	9	188
ES21372		12.43	0.009		<0.2	0.81	4	<10	50	<0.5	<2	0.77	<0.5	26	10	84
ES21373		10.58	0.009		0.2	0.77	40	<10	50	<0.5	<2	0.51	<0.5	27	7	69
ES21374		12.16	0.010		0.5	0.87	7	<10	60	0.5	2	1.20	<0.5	26	13	111
ES21375		8.18	0.012		0.2	0.91	8	<10	70	0.5	<2	0.93	<0.5	22	27	80
ES21376		8.66	0.010		<0.2	0.88	6	<10	60	0.5	<2	0.50	<0.5	22	9	103
ES21377		7.13	0.007		<0.2	0.81	8	<10	50	<0.5	<2	0.31	<0.5	19	12	44
ES21378		5.18	0.010		<0.2	1.55	6	<10	60	<0.5	2	0.30	<0.5	21	14	68
ES21379		5.16	0.007		<0.2	0.86	5	<10	70	<0.5	2	0.37	<0.5	21	11	39
ES21380		0.06	0.272		0.8	1.41	4	<10	120	<0.5	<2	0.86	<0.5	10	27	3070
ES21381		4.84	0.008		<0.2	1.52	3	<10	90	<0.5	<2	0.37	<0.5	20	12	66
ES21382		6.42	0.005		0.2	0.92	10	<10	70	<0.5	<2	0.51	<0.5	23	18	88
ES21383		5.67	<0.005		<0.2	0.79	7	<10	60	<0.5	<2	0.28	<0.5	23	10	47
ES21384		5.77	0.009		0.5	0.57	33	<10	70	0.5	35	0.66	<0.5	20	10	262
ES21385		6.26	0.013		0.6	0.55	61	<10	50	0.5	48	0.74	<0.5	6	3	331

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ES21346		2.16	<10	<1	0.15	30	0.48	131	1	<0.01	22	300	4	0.57	3	6
ES21347		2.14	<10	1	0.14	20	0.64	135	1	<0.01	20	220	4	0.71	8	5
ES21348		2.47	<10	<1	0.20	30	0.83	159	1	<0.01	25	340	4	0.70	6	6
ES21349		1.84	<10	1	0.15	30	0.56	98	1	<0.01	22	400	4	0.65	3	5
ES21350		0.10	<10	3	0.01	<10	1.66	132	<1	<0.01	<1	70	<2	0.01	2	<1
ES21351		3.96	10	<1	0.69	10	2.04	327	<1	0.12	12	490	2	0.05	<2	11
ES21352		4.28	10	1	0.67	<10	2.30	383	<1	0.10	13	490	4	0.03	<2	12
ES21353		4.62	10	1	0.56	<10	2.22	476	1	0.02	15	390	5	0.03	<2	15
ES21354		4.78	10	1	0.76	<10	2.44	408	1	0.10	29	350	3	0.02	2	14
ES21355		5.09	10	<1	1.29	<10	2.58	413	<1	0.10	24	480	3	0.08	<2	18
ES21356		4.80	10	1	1.02	10	1.96	495	1	0.07	23	750	3	0.08	<2	17
ES21357		4.12	10	<1	0.93	10	1.91	403	1	0.17	21	600	2	0.02	<2	15
ES21358		3.34	10	<1	0.71	10	1.40	429	1	0.05	11	390	4	0.05	<2	9
ES21359		3.78	10	1	0.76	10	1.48	275	2	0.05	6	440	3	0.14	<2	11
ES21360		3.03	10	1	0.19	10	0.70	438	246	0.08	23	620	9	0.45	2	5
ES21361		4.40	10	<1	1.06	<10	2.37	337	1	0.15	17	530	3	0.06	<2	13
ES21362		2.75	10	<1	0.57	<10	1.20	265	1	0.20	10	430	2	0.14	<2	9
ES21363		5.37	10	1	1.29	<10	2.05	568	2	0.08	15	380	22	0.53	6	18
ES21364		10.20	10	<1	0.50	<10	0.61	471	2	0.13	13	570	6	0.90	3	9
ES21365		10.05	10	1	0.21	<10	0.29	234	1	0.10	8	290	6	1.50	3	3
ES21366		9.99	10	1	0.35	10	0.46	327	4	0.02	28	580	8	1.77	10	8
ES21367		8.14	10	<1	0.40	10	0.86	541	5	0.02	16	700	8	2.49	10	11
ES21368		5.16	10	1	0.62	<10	1.41	457	2	0.01	13	440	5	3.05	4	13
ES21369		4.55	<10	<1	0.44	<10	0.90	413	6	0.02	9	440	10	3.33	<2	7
ES21370		0.23	<10	2	0.03	<10	0.89	114	<1	0.01	<1	70	<2	0.10	<2	1
ES21371		4.78	<10	1	0.27	<10	0.85	431	4	0.02	11	360	10	3.51	4	4
ES21372		5.76	<10	1	0.24	<10	0.48	320	6	0.04	13	500	6	5.44	2	3
ES21373		5.77	<10	1	0.22	<10	0.29	172	5	0.04	14	430	6	6.23	<2	2
ES21374		5.63	<10	<1	0.21	<10	0.90	463	7	0.03	14	480	10	4.51	2	7
ES21375		4.97	<10	<1	0.28	<10	0.87	426	6	0.03	13	570	5	3.51	<2	6
ES21376		4.87	<10	<1	0.29	<10	0.59	310	7	0.03	11	390	3	3.84	2	4
ES21377		3.37	<10	<1	0.19	<10	0.17	101	7	0.04	12	460	5	3.35	2	2
ES21378		4.62	<10	<1	0.24	<10	1.10	409	3	0.04	10	370	3	3.03	<2	5
ES21379		4.71	<10	<1	0.22	<10	0.86	425	2	0.04	10	400	3	3.23	<2	4
ES21380		2.99	<10	1	0.19	10	0.72	430	244	0.08	23	640	8	0.45	4	4
ES21381		4.51	<10	1	0.26	<10	1.25	549	3	0.04	9	530	5	2.87	2	5
ES21382		4.74	<10	1	0.22	<10	0.63	418	3	0.04	14	990	5	3.73	3	5
ES21383		4.41	<10	1	0.24	<10	0.23	149	6	0.06	11	480	2	4.41	<2	2
ES21384		3.54	<10	<1	0.27	<10	0.57	177	5	0.02	11	280	10	3.17	10	3
ES21385		2.08	<10	<1	0.32	<10	0.33	64	2	0.01	2	40	8	2.06	10	1

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
ES21346		44	<20	<0.01	<10	<10	24	<10	14
ES21347		54	<20	<0.01	<10	<10	21	<10	9
ES21348		85	<20	<0.01	<10	<10	22	<10	8
ES21349		62	<20	<0.01	<10	<10	19	<10	6
ES21350		79	<20	<0.01	<10	<10	<1	<10	<2
ES21351		47	<20	0.13	<10	<10	129	<10	40
ES21352		46	<20	0.15	<10	<10	153	<10	48
ES21353		55	<20	0.06	<10	<10	155	<10	54
ES21354		56	<20	0.11	<10	<10	144	<10	49
ES21355		39	<20	0.17	<10	<10	161	<10	48
ES21356		38	<20	0.13	<10	<10	153	<10	45
ES21357		46	<20	0.15	<10	<10	138	<10	35
ES21358		26	<20	0.09	<10	<10	73	<10	29
ES21359		18	<20	0.10	<10	<10	59	<10	29
ES21360		45	<20	0.14	<10	<10	58	10	55
ES21361		26	<20	0.21	<10	<10	137	<10	36
ES21362		46	<20	0.14	<10	<10	91	<10	29
ES21363		74	<20	0.11	<10	<10	146	<10	123
ES21364		47	<20	0.03	<10	<10	69	<10	42
ES21365		33	<20	0.03	<10	<10	24	<10	27
ES21366		31	<20	0.01	<10	<10	66	<10	31
ES21367		23	<20	0.01	<10	<10	88	10	47
ES21368		16	<20	0.03	<10	<10	97	<10	50
ES21369		17	<20	0.01	<10	<10	57	<10	65
ES21370		82	<20	<0.01	<10	<10	3	<10	3
ES21371		26	<20	<0.01	<10	<10	37	<10	43
ES21372		28	<20	<0.01	<10	<10	26	<10	74
ES21373		29	<20	<0.01	<10	<10	20	<10	31
ES21374		37	<20	<0.01	<10	<10	40	<10	59
ES21375		37	<20	<0.01	<10	<10	43	<10	48
ES21376		28	<20	<0.01	<10	<10	30	<10	37
ES21377		22	<20	<0.01	<10	<10	18	<10	24
ES21378		22	<20	<0.01	<10	<10	52	<10	59
ES21379		22	<20	<0.01	<10	<10	42	<10	51
ES21380		42	<20	0.12	<10	<10	58	10	56
ES21381		21	<20	<0.01	<10	<10	49	<10	69
ES21382		31	<20	<0.01	<10	<10	40	<10	65
ES21383		34	<20	<0.01	<10	<10	17	<10	22
ES21384		62	<20	<0.01	<10	<10	17	<10	21
ES21385		53	<20	<0.01	<10	<10	4	<10	18

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ES21386		6.69	0.006		<0.2	0.73	30	<10	80	1.0	3	3.05	<0.5	18	8	153
ES21387		7.21	0.005		<0.2	0.48	53	<10	80	0.5	2	1.19	<0.5	17	6	89
ES21388		5.46	<0.005		<0.2	0.60	12	<10	80	<0.5	2	1.76	<0.5	19	7	59
ES21389		6.43	<0.005		<0.2	1.18	9	<10	60	0.9	<2	2.80	<0.5	17	12	55
ES21390		0.40	<0.005		<0.2	0.06	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	<1
ES21391		8.73	<0.005		<0.2	1.69	15	<10	150	1.1	<2	4.50	<0.5	21	23	76
ES21392		6.83	<0.005		<0.2	1.38	14	<10	50	0.7	<2	3.04	<0.5	14	15	57
ES21393		6.61	<0.005		<0.2	1.01	15	<10	50	0.7	<2	3.25	<0.5	10	16	23
ES21394		6.82	0.011		<0.2	1.56	50	<10	70	0.6	<2	2.13	<0.5	18	33	62
ES21395		6.39	0.022		0.8	1.50	46	<10	20	1.1	<2	2.89	<0.5	14	19	525
ES21396		5.99	<0.005		<0.2	1.00	38	<10	20	1.3	<2	3.11	<0.5	22	15	89
ES21397		6.04	<0.005		<0.2	1.18	50	<10	10	1.4	2	1.74	<0.5	24	20	111
ES21398		6.23	<0.005		0.2	1.03	41	<10	20	1.1	<2	2.69	<0.5	22	9	75
ES21399		5.40	0.008		0.2	0.66	29	<10	50	<0.5	<2	1.03	<0.5	26	7	66
ES21400		0.06	0.298		0.9	1.44	6	10	120	<0.5	<2	0.87	0.5	11	27	3130
ES21401		6.65	0.010		0.2	0.72	57	<10	50	0.5	<2	1.00	<0.5	24	8	88
ES21402		6.49	0.007		0.2	0.78	58	<10	60	0.6	<2	1.77	<0.5	19	7	90
ES21403		6.52	0.035		<0.2	1.28	422	<10	60	1.1	3	1.59	<0.5	20	25	78
ES21404		6.30	0.010		<0.2	1.15	206	<10	60	1.0	3	1.40	<0.5	15	29	69
ES21405		6.49	0.028		<0.2	1.07	652	<10	90	1.2	9	1.17	<0.5	17	23	29
ES21406		5.38	<0.005		0.9	0.97	48	<10	110	1.1	<2	0.93	1.7	12	21	38
ES21407		2.55	<0.005		0.4	1.07	44	<10	130	1.1	<2	0.77	<0.5	12	26	29
ES21408		4.70	<0.005		0.7	1.62	48	<10	160	0.9	2	1.67	<0.5	9	21	41
ES21409		6.71	<0.005		<0.2	1.06	5	<10	170	0.5	<2	0.69	<0.5	4	5	27
ES21410		0.42	<0.005		<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	<1
ES21411		6.74	<0.005		<0.2	1.07	7	<10	220	<0.5	<2	0.72	<0.5	4	6	43
ES21412		6.64	<0.005		<0.2	1.28	7	<10	420	<0.5	<2	1.18	<0.5	4	5	23
ES21413		7.06	0.005		<0.2	0.98	16	<10	190	0.9	<2	1.43	<0.5	8	5	39
ES21414		6.76	0.006		<0.2	1.47	15	<10	240	0.9	2	1.01	<0.5	9	3	58
ES21415		6.51	0.012		<0.2	0.88	69	<10	40	0.8	<2	2.26	<0.5	5	7	66
ES21416		6.83	0.012		<0.2	0.73	46	<10	80	0.7	<2	1.24	<0.5	7	17	64
ES21417		6.92	<0.005		<0.2	1.48	10	<10	140	0.6	<2	1.17	<0.5	7	21	37
ES21418		6.77	0.007		<0.2	1.45	11	<10	130	1.0	<2	1.85	<0.5	6	24	27
ES21419		5.78	<0.005		<0.2	0.86	49	<10	190	0.8	<2	1.90	<0.5	5	9	46
ES21420		<0.02	0.268		0.9	1.47	6	<10	120	<0.5	<2	0.90	<0.5	10	27	3170
ES21421		6.66	<0.005		<0.2	0.64	9	<10	120	0.5	<2	1.28	<0.5	2	4	35
ES21422		6.10	0.046		<0.2	1.08	51	<10	30	1.0	5	1.85	<0.5	8	6	69
ES21423		6.52	0.020		<0.2	1.01	22	<10	30	1.1	<2	4.23	<0.5	13	21	72
ES21424		4.45	0.066		<0.2	0.59	125	<10	20	1.0	2	4.77	<0.5	18	70	109
ES21425		7.15	0.045		<0.2	0.56	104	<10	30	0.7	3	4.09	<0.5	10	39	73

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ES21386		4.54	<10	<1	0.25	<10	1.58	383	1	0.01	8	130	7	2.12	5	15
ES21387		3.71	<10	1	0.27	<10	0.63	320	3	0.01	9	170	3	2.86	8	5
ES21388		4.13	<10	<1	0.30	<10	1.07	432	8	0.02	8	200	4	2.53	2	5
ES21389		4.34	<10	<1	0.31	10	1.67	481	2	0.01	7	430	5	1.02	2	17
ES21390		0.11	<10	2	0.01	<10	1.13	105	<1	0.01	<1	70	<2	0.01	<2	<1
ES21391		5.05	10	<1	0.50	10	2.11	592	1	0.01	14	430	3	0.89	5	20
ES21392		2.65	<10	1	0.28	10	0.90	331	1	0.06	6	350	4	0.51	2	10
ES21393		1.79	<10	1	0.13	10	0.45	289	1	0.04	4	250	2	0.19	2	8
ES21394		3.57	10	<1	0.34	<10	0.90	340	1	0.12	12	420	2	0.63	3	14
ES21395		4.03	<10	<1	0.18	10	0.90	508	<1	0.02	10	440	2	0.58	5	18
ES21396		5.46	<10	1	0.15	10	1.43	642	1	0.01	13	410	6	1.01	14	21
ES21397		5.43	<10	1	0.08	10	0.88	590	<1	0.01	18	780	4	0.93	19	24
ES21398		5.19	<10	<1	0.10	10	1.23	802	1	0.01	10	420	6	1.16	13	21
ES21399		5.62	<10	<1	0.29	<10	0.37	244	3	0.02	14	430	4	4.95	7	4
ES21400		2.98	10	1	0.19	10	0.70	448	250	0.08	23	630	9	0.46	2	5
ES21401		5.51	<10	<1	0.31	10	0.38	127	10	0.01	12	600	3	4.46	12	5
ES21402		4.94	<10	1	0.33	10	0.70	186	6	0.01	13	540	3	3.78	9	5
ES21403		4.14	<10	1	0.35	20	0.82	184	2	0.01	24	600	5	1.94	3	9
ES21404		3.71	<10	1	0.27	20	0.76	222	1	0.01	23	670	7	1.25	2	10
ES21405		3.01	<10	<1	0.32	30	0.61	353	1	0.01	32	760	10	0.37	4	5
ES21406		3.36	<10	<1	0.29	20	0.55	426	2	0.01	26	680	116	0.73	7	5
ES21407		3.41	<10	<1	0.45	30	0.56	451	1	0.01	31	720	27	0.51	4	3
ES21408		2.98	10	<1	0.66	20	0.97	328	2	0.02	10	330	90	0.87	2	8
ES21409		2.62	10	<1	0.59	20	0.78	363	1	0.04	2	150	6	0.74	2	4
ES21410		0.09	<10	<1	0.01	<10	0.99	121	<1	0.01	<1	70	<2	0.02	<2	<1
ES21411		2.60	<10	<1	0.60	20	0.86	593	3	0.04	1	100	5	0.78	<2	3
ES21412		2.74	10	<1	0.78	20	1.13	592	3	0.04	1	140	4	0.41	<2	4
ES21413		3.79	<10	1	0.36	20	1.01	445	2	0.01	1	380	6	0.98	3	6
ES21414		4.29	10	<1	0.64	20	1.15	413	4	0.02	2	370	3	0.94	4	7
ES21415		3.06	<10	<1	0.14	20	1.12	254	1	0.01	4	280	6	0.94	6	6
ES21416		2.72	<10	1	0.19	30	0.60	254	1	0.02	12	320	6	1.17	3	6
ES21417		2.60	10	1	0.76	20	1.10	187	2	0.07	10	320	4	0.42	3	7
ES21418		2.37	<10	1	0.58	20	1.19	195	2	0.02	8	240	6	0.24	<2	7
ES21419		2.08	<10	1	0.25	20	0.84	179	1	0.01	6	260	5	0.43	<2	6
ES21420		3.03	<10	1	0.19	10	0.71	452	259	0.09	23	630	9	0.47	2	5
ES21421		1.13	<10	1	0.26	20	0.48	92	4	0.01	1	60	4	0.28	<2	2
ES21422		2.78	<10	1	0.16	30	0.70	261	5	0.01	4	360	7	0.89	<2	8
ES21423		3.67	<10	<1	0.14	20	1.41	523	<1	0.01	15	660	6	0.72	2	15
ES21424		3.61	<10	1	0.12	<10	1.19	559	<1	0.01	87	350	4	0.92	13	12
ES21425		3.50	<10	<1	0.13	10	0.84	361	1	0.01	42	260	5	2.07	15	9

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
ES21386		153	<20	<0.01	<10	<10	48	<10	29
ES21387		76	<20	<0.01	<10	<10	20	<10	20
ES21388		80	<20	<0.01	<10	<10	26	<10	34
ES21389		90	<20	0.01	<10	<10	81	<10	36
ES21390		84	<20	<0.01	<10	<10	1	<10	<2
ES21391		131	<20	0.03	<10	<10	113	<10	33
ES21392		61	<20	0.04	<10	<10	65	<10	24
ES21393		92	<20	0.03	<10	<10	44	<10	20
ES21394		55	<20	0.09	<10	<10	95	<10	35
ES21395		67	<20	0.03	<10	<10	100	<10	36
ES21396		89	<20	<0.01	<10	<10	91	<10	37
ES21397		49	<20	<0.01	<10	<10	122	<10	44
ES21398		67	<20	<0.01	<10	<10	95	<10	43
ES21399		32	<20	<0.01	<10	<10	24	<10	14
ES21400		43	<20	0.13	<10	<10	57	10	56
ES21401		35	<20	<0.01	<10	<10	25	<10	8
ES21402		45	<20	<0.01	<10	<10	28	<10	8
ES21403		41	<20	0.01	<10	<10	57	<10	13
ES21404		36	<20	0.01	<10	<10	61	<10	17
ES21405		29	<20	<0.01	<10	<10	40	<10	33
ES21406		25	<20	0.01	<10	<10	34	<10	283
ES21407		24	<20	0.02	<10	<10	34	<10	79
ES21408		45	<20	0.04	<10	<10	41	<10	71
ES21409		28	<20	0.04	<10	<10	17	<10	52
ES21410		75	<20	<0.01	<10	<10	<1	<10	4
ES21411		33	<20	0.03	<10	<10	9	<10	101
ES21412		40	<20	0.06	<10	<10	19	<10	66
ES21413		70	<20	0.01	<10	<10	18	<10	32
ES21414		46	<20	0.04	<10	<10	26	<10	26
ES21415		67	<20	<0.01	<10	<10	14	<10	24
ES21416		75	<20	<0.01	<10	<10	20	<10	25
ES21417		71	<20	0.07	<10	<10	33	<10	22
ES21418		126	<20	0.04	<10	<10	32	<10	24
ES21419		93	<20	<0.01	<10	<10	18	<10	16
ES21420		44	<20	0.13	<10	<10	58	10	57
ES21421		40	<20	<0.01	<10	<10	3	<10	5
ES21422		64	<20	<0.01	<10	<10	31	<10	19
ES21423		149	<20	<0.01	<10	<10	61	<10	36
ES21424		158	<20	<0.01	<10	10	46	<10	37
ES21425		104	<20	<0.01	<10	<10	31	<10	22

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ES21426		6.49	0.078		0.3	0.55	126	<10	20	0.6	7	2.24	<0.5	10	13	160
ES21427		6.84	0.046		<0.2	0.80	187	<10	30	1.2	3	4.52	<0.5	20	114	59
ES21428		5.75	0.063		<0.2	0.47	412	<10	10	0.7	2	3.67	<0.5	16	29	87
ES21429		7.18	0.438		0.2	0.32	555	<10	30	<0.5	7	3.55	<0.5	6	14	79
ES21430		0.38	<0.005		<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	4
ES21431		6.92	1.720		0.4	0.35	245	<10	20	0.6	82	1.48	<0.5	6	9	173
ES21432		5.52	0.023		<0.2	0.60	320	<10	290	1.0	13	2.35	<0.5	10	9	137
ES21433		6.34	0.070		0.2	0.49	116	<10	130	0.9	5	1.45	<0.5	12	9	214
ES21434		6.15	0.035		0.9	0.69	68	<10	90	1.0	6	2.05	<0.5	13	26	622
ES21435		6.27	0.036		0.2	0.73	35	<10	120	0.9	8	2.12	<0.5	13	19	165
ES21436		6.67	<0.005		<0.2	0.70	25	<10	230	0.8	<2	2.15	<0.5	9	13	80
ES21437		6.44	0.033		0.2	0.61	116	<10	200	0.7	5	1.58	<0.5	9	11	170
ES21438		4.65	0.085		1.6	0.68	38	<10	90	0.8	27	2.08	<0.5	9	15	916
ES21439		4.70	2.10		4.5	0.50	>10000	<10	70	0.5	342	1.39	<0.5	108	7	2480
ES21440		0.06	0.248		0.9	1.45	19	10	110	<0.5	<2	0.89	<0.5	10	27	3100
ES21441		3.64	0.231		0.2	0.74	793	<10	120	0.9	8	1.86	0.9	8	28	225
ES21442		6.80	0.094		0.8	0.60	305	<10	140	0.8	53	2.14	<0.5	11	14	474
ES21443		6.31	0.074		0.6	0.75	87	<10	90	0.8	48	2.21	<0.5	14	18	551
ES21444		5.95	0.465		0.5	0.77	382	<10	50	1.3	37	2.32	<0.5	16	21	843
ES21445		6.86	0.266		0.2	0.83	128	<10	40	1.4	7	1.50	<0.5	19	35	538
ES21446		6.88	0.020		<0.2	0.76	73	<10	160	0.9	<2	1.76	<0.5	10	17	91
ES21447		6.77	0.065		<0.2	0.84	56	<10	100	1.1	5	1.59	<0.5	11	22	151
ES21448		5.72	0.033		<0.2	0.72	22	<10	210	0.9	<2	2.10	<0.5	10	14	97
ES21449		5.45	0.793		0.3	0.77	53	<10	190	0.9	30	1.65	<0.5	12	13	195
ES21450		0.43	<0.005		<0.2	0.06	<2	<10	30	<0.5	<2	>25.0	<0.5	<1	1	4

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ES21426		4.09	<10	1	0.15	10	0.45	191	2	<0.01	37	170	8	3.93	36	5
ES21427		4.82	<10	1	0.17	<10	1.70	796	<1	0.01	138	310	2	1.21	17	21
ES21428		3.28	<10	1	0.16	<10	0.20	233	2	0.01	82	250	4	2.81	26	4
ES21429		2.11	<10	1	0.13	<10	0.20	110	3	<0.01	36	230	6	1.92	33	2
ES21430		0.09	<10	<1	<0.01	<10	0.69	122	<1	0.01	<1	80	<2	0.03	<2	<1
ES21431		1.90	<10	<1	0.13	<10	0.37	136	9	<0.01	19	100	8	1.36	30	2
ES21432		2.10	<10	1	0.24	20	0.53	174	1	0.01	18	250	8	0.81	5	3
ES21433		2.84	<10	1	0.21	20	0.47	169	1	0.01	17	350	7	1.39	6	3
ES21434		4.34	<10	<1	0.16	20	0.81	302	3	0.01	37	660	5	1.87	5	11
ES21435		3.95	<10	<1	0.20	30	0.96	315	1	0.01	26	460	6	1.12	<2	7
ES21436		2.84	<10	<1	0.19	30	0.90	228	1	0.01	20	410	7	0.67	<2	4
ES21437		2.80	<10	<1	0.16	20	0.71	184	<1	0.01	14	700	5	1.06	<2	6
ES21438		2.89	<10	1	0.17	20	0.85	155	1	0.01	23	450	5	1.08	3	5
ES21439		4.48	<10	<1	0.25	10	0.55	100	1	0.01	23	420	7	2.59	12	2
ES21440		2.98	10	<1	0.19	10	0.70	445	258	0.08	23	620	9	0.45	<2	5
ES21441		3.23	<10	1	0.18	30	0.70	473	11	<0.01	38	1490	11	1.35	6	5
ES21442		2.87	<10	<1	0.24	30	0.91	427	1	0.01	28	410	9	0.74	5	4
ES21443		4.88	<10	1	0.23	30	1.06	232	1	0.01	34	410	4	1.97	4	6
ES21444		9.06	<10	<1	0.17	20	1.12	311	6	0.01	33	530	6	3.87	20	7
ES21445		8.76	<10	1	0.14	30	0.73	421	8	0.01	33	590	5	4.60	15	6
ES21446		2.94	<10	<1	0.20	30	0.80	241	1	0.01	25	370	6	0.58	3	6
ES21447		3.30	<10	<1	0.17	40	0.79	209	1	0.01	26	430	5	1.06	2	7
ES21448		3.09	<10	<1	0.18	30	0.80	196	1	0.01	21	320	6	0.90	2	5
ES21449		3.02	<10	<1	0.27	30	0.72	170	1	0.01	25	330	4	0.93	5	4
ES21450		0.17	<10	<1	0.02	<10	2.04	168	<1	0.01	<1	70	2	0.02	<2	<1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
ES21426		57	<20	<0.01	<10	<10	14	<10	23
ES21427		143	<20	<0.01	<10	<10	67	<10	42
ES21428		79	<20	<0.01	10	<10	21	<10	22
ES21429		82	<20	<0.01	10	<10	12	<10	11
ES21430		91	<20	<0.01	<10	<10	<1	<10	2
ES21431		69	<20	<0.01	<10	<10	9	<10	15
ES21432		62	<20	<0.01	<10	<10	9	<10	10
ES21433		45	<20	<0.01	<10	<10	10	<10	13
ES21434		93	<20	<0.01	<10	<10	52	<10	40
ES21435		86	<20	<0.01	<10	<10	29	<10	20
ES21436		86	<20	<0.01	<10	<10	18	<10	14
ES21437		89	<20	<0.01	<10	<10	28	<10	19
ES21438		108	<20	<0.01	<10	<10	20	<10	23
ES21439		61	<20	<0.01	<10	<10	8	<10	33
ES21440		44	<20	0.13	<10	<10	58	10	96
ES21441		84	<20	<0.01	<10	10	32	<10	111
ES21442		103	<20	<0.01	<10	<10	18	<10	22
ES21443		91	<20	<0.01	<10	<10	27	<10	16
ES21444		112	<20	<0.01	<10	<10	40	<10	16
ES21445		61	<20	<0.01	<10	<10	61	<10	23
ES21446		91	20	<0.01	<10	<10	22	<10	39
ES21447		85	20	<0.01	<10	<10	29	<10	13
ES21448		113	<20	<0.01	<10	<10	20	<10	13
ES21449		68	<20	<0.01	<10	<10	15	<10	11
ES21450		81	<20	<0.01	<10	<10	<1	<10	<2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186566

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Au- GRA21	ME- ICP41

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SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17186569

Project: FREEGOLD MOUNTAIN

P.O. No.: 1005139- NOFREG- R1

This report is for 206 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ES21451		6.05	0.030	0.2	0.63	127	<10	90	0.7	4	1.64	<0.5	10	12	140	3.42
ES21452		6.00	0.021	0.3	0.45	104	<10	60	0.6	4	1.16	<0.5	8	7	190	2.39
ES21453		5.92	0.016	0.2	0.49	99	<10	60	0.7	3	1.21	<0.5	11	13	67	2.80
ES21454		4.15	0.006	0.2	0.47	50	<10	120	0.6	<2	1.67	<0.5	8	17	74	2.45
ES21455		3.17	0.085	0.3	0.50	204	<10	40	0.8	10	1.13	<0.5	7	24	207	3.01
ES21456		2.59	0.178	0.6	0.36	91	<10	40	0.6	16	3.81	<0.5	8	9	409	3.02
ES21457		3.53	0.103	3.4	0.36	584	<10	50	0.5	106	3.21	<0.5	25	16	1845	6.21
ES21458		4.42	0.162	1.7	0.36	92	<10	40	0.5	21	2.54	<0.5	16	26	1060	4.04
ES21459		5.24	0.310	1.4	0.47	51	<10	120	0.7	35	3.18	<0.5	11	26	784	2.79
ES21460		0.07	0.273	1.0	1.50	6	<10	120	<0.5	<2	0.90	<0.5	10	27	3080	2.99
ES21461		6.22	0.073	0.3	0.66	49	<10	40	1.3	9	3.62	<0.5	17	47	322	4.07
ES21462		6.17	0.040	0.3	0.69	43	<10	120	1.2	6	3.09	<0.5	14	54	324	4.10
ES21463		6.24	0.080	0.4	0.59	82	<10	130	1.1	5	2.59	<0.5	11	37	338	3.50
ES21464		6.47	0.105	0.3	0.45	121	<10	220	0.8	18	3.48	<0.5	10	19	212	2.90
ES21465		5.58	0.281	0.5	0.32	313	<10	150	0.8	11	3.02	<0.5	8	9	338	2.50
ES21466		4.37	0.066	0.3	0.45	106	<10	20	1.1	8	2.40	<0.5	16	24	279	5.30
ES21467		4.49	0.159	0.8	0.32	372	<10	10	0.6	11	1.04	<0.5	17	11	660	6.72
ES21468		4.86	0.071	0.7	0.33	153	<10	20	0.5	12	0.53	<0.5	10	8	467	3.48
ES21469		5.16	6.06	5.7	0.36	>10000	<10	10	0.5	47	0.33	24.4	20	10	1405	8.82
ES21470		0.36	0.014	<0.2	0.03	133	<10	40	<0.5	3	>25.0	<0.5	1	1	11	0.32
ES21471		5.22	0.136	1.3	0.37	466	<10	20	0.5	30	0.45	<0.5	10	6	1005	3.36
ES21472		4.17	0.105	1.0	0.45	201	<10	10	0.6	303	0.27	<0.5	14	7	484	4.18
ES21473		6.12	0.145	0.5	0.47	167	<10	30	0.7	8	0.20	<0.5	14	10	271	4.27
ES21474		5.08	0.177	0.7	0.39	887	<10	10	0.6	4	0.43	<0.5	12	10	229	4.37
ES21475		5.36	0.032	0.4	0.47	109	<10	30	0.6	19	0.23	<0.5	8	6	174	2.49
ES21476		5.11	0.106	0.7	0.49	137	<10	20	0.7	6	0.37	0.5	10	7	396	3.33
ES21477		5.00	0.049	0.6	0.49	146	<10	90	0.5	5	1.09	<0.5	7	8	295	2.30
ES21478		4.90	0.066	0.7	0.34	49	<10	20	0.5	4	0.48	<0.5	11	8	330	3.75
ES21479		5.26	0.098	0.9	0.35	98	<10	30	0.5	2	0.22	<0.5	18	10	608	5.13
ES21480		0.07	0.717	4.9	1.27	28	<10	50	<0.5	3	0.54	5.1	14	21	5180	5.92
ES21481		4.94	0.124	1.3	0.47	39	<10	20	0.8	3	0.28	<0.5	25	7	771	6.69
ES21482		4.53	0.080	0.8	0.47	37	<10	30	0.7	2	0.52	<0.5	24	8	456	6.31
ES21483		5.06	0.044	0.3	0.47	24	<10	20	0.7	2	0.58	<0.5	9	6	158	3.31
ES21484		4.80	0.030	0.3	0.55	12	<10	100	0.8	2	0.39	<0.5	8	3	156	2.15
ES21485		5.40	0.031	0.3	0.53	128	<10	100	1.0	3	0.72	<0.5	8	10	143	2.91
ES21486		5.14	0.012	0.3	0.64	26	<10	40	0.9	4	1.37	<0.5	9	18	252	3.06
ES21487		4.97	0.063	0.5	0.52	146	<10	50	0.8	3	0.66	<0.5	13	13	412	4.25
ES21488		4.23	0.078	0.6	0.58	30	<10	80	0.8	5	0.69	<0.5	14	12	484	4.07
ES21489		5.06	0.030	<0.2	0.32	68	<10	60	0.5	<2	0.48	<0.5	5	12	129	1.50
ES21490		0.45	<0.005	<0.2	0.05	2	<10	10	<0.5	2	>25.0	<0.5	<1	1	4	0.10

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES21451		<10	<1	0.26	20	0.67	231	1	<0.01	22	300	5	2.20	14	4	50
ES21452		<10	1	0.21	20	0.43	171	2	<0.01	18	200	4	2.11	21	2	60
ES21453		<10	<1	0.20	20	0.57	299	7	<0.01	20	220	5	1.13	11	3	38
ES21454		<10	<1	0.13	20	0.65	224	1	<0.01	17	290	4	0.54	8	4	38
ES21455		<10	<1	0.08	20	0.41	194	29	<0.01	33	590	3	1.16	2	5	38
ES21456		<10	<1	0.14	10	0.61	158	101	<0.01	14	190	4	1.31	25	2	109
ES21457		<10	1	0.13	10	0.72	210	6	<0.01	50	570	5	3.51	129	4	80
ES21458		<10	<1	0.17	10	0.45	125	5	<0.01	63	430	3	2.28	14	4	56
ES21459		<10	<1	0.16	10	0.58	121	2	<0.01	36	410	3	1.21	<2	4	64
ES21460		<10	<1	0.19	10	0.73	446	234	0.08	23	630	9	0.47	<2	5	45
ES21461		<10	<1	0.16	20	1.14	177	4	<0.01	71	810	2	1.40	<2	10	133
ES21462		<10	<1	0.13	20	1.43	183	13	<0.01	74	480	2	1.35	<2	11	195
ES21463		<10	1	0.15	20	1.11	153	23	<0.01	84	720	2	1.22	3	9	121
ES21464		<10	<1	0.16	10	1.24	200	2	<0.01	44	440	<2	1.21	9	5	137
ES21465		<10	1	0.13	10	1.12	143	2	<0.01	24	130	3	1.63	20	3	115
ES21466		<10	1	0.19	<10	0.90	305	1	<0.01	46	70	2	4.87	20	11	90
ES21467		<10	1	0.16	10	0.15	45	<1	<0.01	41	70	3	7.87	60	1	50
ES21468		<10	<1	0.17	20	0.09	35	1	<0.01	16	370	6	3.73	34	1	73
ES21469		<10	1	0.21	10	0.07	35	1	<0.01	40	710	1970	8.56	707	1	63
ES21470		<10	<1	0.01	<10	1.01	146	<1	<0.01	<1	80	5	0.17	<2	<1	82
ES21471		<10	1	0.23	20	0.13	21	1	<0.01	15	130	25	3.77	97	1	52
ES21472		<10	1	0.24	20	0.08	24	<1	<0.01	23	80	17	4.63	36	<1	49
ES21473		<10	1	0.23	10	0.08	15	<1	<0.01	29	130	5	4.80	40	1	49
ES21474		<10	1	0.20	10	0.14	22	1	<0.01	29	100	23	4.82	59	1	136
ES21475		<10	<1	0.20	20	0.09	15	1	<0.01	17	60	8	2.78	30	1	55
ES21476		<10	1	0.23	20	0.11	17	1	<0.01	23	190	10	3.75	28	1	45
ES21477		<10	1	0.27	20	0.19	70	1	<0.01	22	210	5	2.31	14	2	45
ES21478		<10	<1	0.17	10	0.16	39	1	<0.01	30	250	5	3.98	16	1	33
ES21479		<10	1	0.17	10	0.06	22	2	<0.01	38	410	3	6.00	21	1	115
ES21480		<10	<1	0.28	<10	0.39	718	106	0.03	16	500	110	4.25	<2	2	38
ES21481		<10	1	0.21	20	0.10	16	1	<0.01	28	260	5	8.01	24	1	53
ES21482		<10	1	0.22	20	0.10	31	1	<0.01	27	320	4	7.40	16	1	79
ES21483		<10	<1	0.23	10	0.24	24	1	<0.01	14	90	7	3.63	11	1	118
ES21484		<10	<1	0.28	10	0.15	21	1	<0.01	7	90	9	2.35	4	<1	36
ES21485		<10	<1	0.21	20	0.30	77	2	0.01	24	540	4	2.53	6	3	65
ES21486		<10	<1	0.18	20	0.47	129	2	0.01	34	470	6	1.47	3	5	68
ES21487		<10	<1	0.16	20	0.32	88	5	0.01	18	490	6	2.47	10	3	99
ES21488		<10	<1	0.20	20	0.31	90	9	0.01	18	490	3	2.34	8	4	43
ES21489		<10	<1	0.15	20	0.24	67	1	0.01	11	170	2	0.72	3	2	29
ES21490		<10	<1	0.01	<10	0.82	115	<1	0.01	<1	70	<2	0.02	<2	<1	78

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
ES21451		<20	<0.01	<10	<10	11	<10	16	
ES21452		<20	<0.01	<10	<10	6	<10	14	
ES21453		<20	<0.01	<10	<10	11	<10	14	
ES21454		<20	<0.01	<10	<10	17	<10	16	
ES21455		<20	<0.01	<10	<10	32	<10	26	
ES21456		<20	<0.01	<10	10	16	<10	13	
ES21457		<20	<0.01	<10	<10	28	<10	47	
ES21458		<20	<0.01	<10	<10	24	<10	20	
ES21459		<20	<0.01	<10	<10	26	<10	20	
ES21460		<20	0.14	<10	<10	60	10	57	
ES21461		<20	<0.01	<10	<10	57	<10	17	
ES21462		<20	<0.01	<10	<10	62	<10	15	
ES21463		<20	<0.01	<10	<10	47	<10	14	
ES21464		<20	<0.01	<10	<10	36	<10	8	
ES21465		<20	<0.01	<10	<10	11	<10	10	
ES21466		<20	<0.01	10	<10	23	<10	16	
ES21467		<20	<0.01	10	<10	8	<10	24	
ES21468		<20	<0.01	<10	<10	5	<10	14	
ES21469		<20	<0.01	<10	<10	8	<10	3270	
ES21470		<20	<0.01	<10	<10	<1	<10	7	
ES21471		<20	<0.01	<10	<10	3	<10	57	
ES21472		<20	<0.01	<10	<10	4	<10	19	
ES21473		<20	<0.01	<10	<10	6	<10	14	
ES21474		<20	<0.01	<10	<10	7	<10	33	
ES21475		<20	<0.01	<10	<10	4	<10	13	
ES21476		<20	<0.01	<10	<10	5	<10	55	
ES21477		<20	<0.01	<10	<10	5	<10	9	
ES21478		<20	<0.01	<10	<10	5	<10	12	
ES21479		<20	<0.01	<10	<10	6	<10	12	
ES21480		<20	0.02	<10	<10	24	<10	881	
ES21481		<20	<0.01	10	<10	4	<10	10	
ES21482		<20	<0.01	10	<10	4	<10	17	
ES21483		<20	<0.01	<10	<10	2	<10	12	
ES21484		<20	<0.01	<10	<10	1	<10	12	
ES21485		<20	<0.01	<10	<10	9	<10	9	
ES21486		<20	<0.01	<10	<10	18	<10	15	
ES21487		<20	<0.01	<10	<10	17	<10	11	
ES21488		<20	<0.01	<10	<10	19	<10	8	
ES21489		<20	<0.01	<10	<10	7	<10	5	
ES21490		<20	<0.01	<10	<10	<1	<10	2	

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CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E521491		5.34	0.012	0.2	0.27	11	<10	130	0.5	3	0.58	<0.5	5	12	138	1.72
E521492		4.45	0.013	0.3	0.49	14	<10	40	0.9	2	1.32	<0.5	7	14	219	2.30
E521493		3.81	0.106	2.6	0.41	94	<10	20	0.8	45	0.30	<0.5	11	10	1275	3.12
E521494		3.46	0.024	0.7	0.52	745	<10	30	0.8	5	0.73	<0.5	11	13	468	2.89
E521495		3.36	0.091	1.2	0.44	23	<10	20	0.7	19	0.68	<0.5	9	11	731	2.30
E521496		4.75	0.017	<0.2	0.58	11	<10	30	0.6	3	0.44	<0.5	2	4	105	0.94
E521497		5.53	0.121	0.6	0.40	146	<10	100	0.7	4	0.57	<0.5	4	4	301	2.07
E521498		5.06	0.045	0.5	0.46	31	<10	20	0.8	9	0.56	<0.5	5	5	429	2.87
E521499		4.74	0.055	0.2	0.49	44	<10	20	0.8	9	1.41	<0.5	11	14	431	4.35
E521500		0.07	0.287	0.9	1.48	7	<10	120	<0.5	2	0.88	<0.5	11	27	3100	2.98
I028005		5.56	0.032	0.8	0.40	185	<10	100	<0.5	<2	0.01	<0.5	1	5	44	0.81
I028006		5.22	<0.005	<0.2	0.34	12	<10	80	<0.5	<2	0.02	<0.5	2	4	16	0.94
I028007		5.87	<0.005	0.2	0.31	11	<10	60	<0.5	<2	0.03	0.6	4	6	18	0.69
I028008		3.98	0.012	0.3	0.29	287	<10	120	<0.5	<2	0.01	<0.5	1	4	27	1.15
I028009		4.93	<0.005	<0.2	0.29	28	<10	70	<0.5	<2	0.02	<0.5	1	5	7	0.79
W640450		0.44	<0.005	<0.2	0.03	4	<10	10	<0.5	<2	>25.0	<0.5	<1	1	2	0.07
I028011		3.54	0.148	0.8	0.28	3210	<10	120	<0.5	10	0.05	<0.5	5	6	79	1.51
I028012		4.15	<0.005	<0.2	0.30	50	<10	50	<0.5	<2	0.70	2.2	2	5	17	0.90
I028013		5.80	<0.005	<0.2	0.38	10	<10	60	<0.5	<2	0.05	3.8	3	7	6	1.04
I028014		5.53	0.013	0.2	0.34	7	<10	50	<0.5	<2	0.05	<0.5	1	7	8	0.51
I028015		3.55	0.005	<0.2	0.34	21	<10	70	<0.5	<2	0.01	<0.5	1	8	6	0.77
I028016		5.10	<0.005	<0.2	0.26	7	<10	70	<0.5	<2	0.02	<0.5	1	6	18	0.65
I028017		6.89	<0.005	<0.2	0.38	8	<10	60	<0.5	<2	0.01	<0.5	1	7	53	0.59
I028018		5.41	<0.005	0.4	0.44	18	<10	90	<0.5	4	0.01	<0.5	1	6	19	1.08
I028019		5.64	<0.005	0.3	0.55	110	<10	80	<0.5	4	0.02	<0.5	1	7	29	0.67
I028020		0.05	0.278	0.9	1.49	7	<10	120	<0.5	3	0.90	<0.5	11	28	3100	2.99
I028021		5.53	0.008	<0.2	0.48	58	<10	70	<0.5	2	0.01	<0.5	2	5	9	0.43
I028022		5.41	0.008	0.4	0.47	103	<10	90	<0.5	2	0.01	<0.5	1	7	9	0.64
I028023		5.59	0.008	<0.2	0.51	320	<10	90	<0.5	2	0.01	<0.5	1	5	38	0.73
I028024		5.71	0.005	0.2	0.45	40	<10	60	<0.5	<2	0.01	15.7	3	6	25	0.39
I028025		5.80	0.008	<0.2	0.42	38	<10	50	<0.5	<2	0.01	0.9	2	6	76	0.36
I028026		6.14	0.014	0.2	0.50	29	<10	60	<0.5	<2	0.01	<0.5	2	8	110	0.40
I028027		4.11	0.016	0.2	0.51	584	<10	110	<0.5	<2	<0.01	<0.5	2	7	71	1.06
I028028		4.09	0.107	0.2	0.74	4030	<10	180	<0.5	7	<0.01	<0.5	8	5	215	1.91
I028029		5.28	0.020	0.7	0.67	569	<10	90	<0.5	12	0.01	<0.5	3	5	35	0.75
I028030		0.56	<0.005	0.3	0.02	5	<10	10	<0.5	2	>25.0	<0.5	1	<1	3	0.07
I028031		4.62	0.011	0.6	0.55	124	<10	50	<0.5	4	0.03	<0.5	2	6	63	0.44
I028032		4.00	0.037	0.3	0.65	1395	<10	50	<0.5	2	0.02	<0.5	7	9	152	0.78
I028033		5.81	0.073	0.3	0.66	161	<10	70	<0.5	<2	0.01	0.8	2	7	105	0.41
I028034		5.75	0.035	0.3	0.61	462	<10	70	<0.5	<2	0.01	2.7	3	6	40	0.63

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
E521491		<10	<1	0.15	20	0.27	70	1	0.01	11	90	2	0.81	2	2	35
E521492		<10	<1	0.21	30	0.43	85	1	0.01	17	200	2	0.91	3	4	52
E521493		<10	<1	0.23	30	0.24	98	1	0.01	24	290	3	1.94	5	2	34
E521494		<10	<1	0.21	20	0.36	76	1	0.01	22	240	3	1.60	4	3	40
E521495		<10	<1	0.22	20	0.30	68	1	0.01	16	290	2	1.29	6	2	42
E521496		<10	<1	0.19	<10	0.19	66	1	0.01	1	30	5	0.46	<2	<1	28
E521497		<10	<1	0.18	10	0.21	29	<1	0.01	6	120	6	2.11	12	1	39
E521498		<10	<1	0.20	20	0.19	43	<1	0.01	8	240	5	3.01	5	2	39
E521499		<10	<1	0.14	20	0.55	164	1	0.01	22	370	4	2.81	6	4	64
E521500		<10	<1	0.19	10	0.73	444	233	0.09	23	640	9	0.45	<2	5	45
I028005		<10	<1	0.21	20	0.01	23	2	0.03	1	70	256	0.20	<2	<1	7
I028006		<10	<1	0.22	20	0.01	110	2	0.04	1	70	7	0.13	<2	<1	6
I028007		<10	<1	0.17	20	0.01	396	1	0.06	1	70	9	0.07	<2	<1	7
I028008		<10	<1	0.25	20	0.01	28	2	0.04	1	70	24	0.25	<2	<1	7
I028009		<10	1	0.20	20	0.01	36	2	0.06	2	60	5	0.10	<2	<1	7
W640450		<10	<1	<0.01	<10	0.57	86	<1	0.01	<1	60	3	<0.01	<2	<1	81
I028011		<10	1	0.25	20	0.01	45	2	0.06	1	70	16	0.30	<2	<1	6
I028012		<10	<1	0.17	20	0.02	86	2	0.05	2	70	6	0.13	<2	<1	6
I028013		<10	<1	0.19	20	0.02	186	3	0.05	3	80	6	0.07	<2	1	5
I028014		<10	<1	0.16	20	0.01	31	3	0.06	1	50	10	0.09	<2	<1	6
I028015		<10	<1	0.23	20	0.01	34	8	0.06	1	60	7	0.14	<2	<1	7
I028016		<10	<1	0.18	20	<0.01	18	2	0.06	1	50	5	0.13	<2	<1	7
I028017		<10	<1	0.21	20	0.01	23	1	0.06	1	50	6	0.17	<2	<1	7
I028018		<10	<1	0.30	20	0.01	17	1	0.06	1	60	9	0.44	<2	<1	7
I028019		<10	<1	0.27	20	0.01	16	2	0.01	1	40	15	0.27	<2	<1	6
I028020		10	<1	0.19	10	0.73	447	230	0.09	23	640	8	0.45	<2	5	45
I028021		<10	<1	0.22	20	0.01	14	2	0.02	1	50	9	0.16	<2	<1	6
I028022		<10	1	0.25	20	0.01	21	2	0.04	2	60	8	0.23	<2	1	6
I028023		<10	<1	0.24	20	0.01	12	2	0.03	1	70	9	0.33	<2	<1	6
I028024		<10	<1	0.16	20	0.01	25	3	0.05	2	50	7	0.25	<2	<1	6
I028025		<10	<1	0.18	20	0.01	15	2	0.03	1	40	9	0.29	<2	<1	6
I028026		<10	<1	0.21	20	0.01	25	4	0.04	1	40	6	0.21	<2	<1	6
I028027		<10	<1	0.29	10	0.01	15	3	0.02	1	40	10	0.48	<2	<1	6
I028028		<10	<1	0.42	20	0.01	21	3	0.06	2	90	10	0.80	<2	1	10
I028029		<10	<1	0.22	20	0.01	15	2	0.03	1	100	9	0.34	2	1	8
I028030		<10	<1	0.01	<10	0.79	115	<1	<0.01	<1	80	<2	0.01	<2	<1	83
I028031		<10	<1	0.23	20	0.01	24	3	0.03	1	80	6	0.23	2	1	8
I028032		<10	<1	0.28	20	0.01	37	2	0.04	2	90	9	0.50	<2	1	10
I028033		<10	<1	0.21	20	0.01	18	1	0.02	2	60	21	0.40	3	1	5
I028034		<10	<1	0.28	20	0.01	21	2	<0.01	2	60	27	0.59	2	<1	4

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
ES21491		<20	<0.01	<10	<10	6	<10	5	
ES21492		<20	<0.01	<10	<10	13	<10	8	
ES21493		<20	<0.01	<10	<10	9	<10	13	
ES21494		<20	<0.01	<10	<10	11	<10	11	
ES21495		<20	<0.01	<10	<10	7	<10	11	
ES21496		<20	<0.01	<10	<10	1	<10	4	
ES21497		<20	<0.01	<10	<10	2	<10	6	
ES21498		<20	<0.01	<10	<10	2	<10	11	
ES21499		<20	<0.01	<10	<10	14	<10	15	
ES21500		<20	0.13	<10	<10	59	10	57	
I028005		20	<0.01	<10	<10	1	<10	46	
I028006		20	<0.01	<10	<10	1	<10	74	
I028007		20	<0.01	<10	10	1	<10	131	
I028008		20	<0.01	<10	<10	1	<10	41	
I028009		20	<0.01	<10	<10	1	<10	18	
W640450		<20	<0.01	<10	<10	<1	<10	2	
I028011		20	<0.01	<10	10	1	<10	31	
I028012		20	<0.01	<10	10	1	<10	39	
I028013		20	<0.01	<10	20	1	<10	35	
I028014		20	<0.01	<10	<10	1	<10	16	
I028015		20	<0.01	<10	<10	1	<10	16	
I028016		<20	<0.01	<10	<10	1	<10	15	
I028017		<20	<0.01	<10	<10	1	<10	12	
I028018		20	<0.01	<10	<10	1	<10	7	
I028019		20	<0.01	<10	<10	1	<10	3	
I028020		<20	0.14	<10	<10	60	10	57	
I028021		30	<0.01	<10	<10	1	<10	4	
I028022		20	<0.01	<10	<10	1	<10	7	
I028023		20	<0.01	<10	20	1	<10	4	
I028024		20	<0.01	<10	30	1	<10	10	
I028025		20	<0.01	<10	10	1	<10	20	
I028026		20	<0.01	<10	<10	1	<10	4	
I028027		20	<0.01	<10	10	<1	<10	4	
I028028		40	<0.01	<10	<10	1	<10	6	
I028029		40	<0.01	<10	<10	1	<10	3	
I028030		<20	<0.01	<10	<10	<1	<10	2	
I028031		30	<0.01	<10	10	1	<10	5	
I028032		40	<0.01	<10	10	1	<10	7	
I028033		20	<0.01	<10	10	1	<10	77	
I028034		20	<0.01	<10	10	<1	<10	17	

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I028035		5.68	0.006	<0.2	0.33	28	<10	60	<0.5	<2	0.05	2.2	3	7	19	1.34
I028036		5.66	0.007	<0.2	0.49	11	<10	60	<0.5	<2	0.03	9.3	2	6	13	0.52
I028037		5.27	0.005	<0.2	0.67	19	<10	80	<0.5	<2	0.01	<0.5	2	5	24	0.47
I028038		6.43	0.030	0.4	0.59	565	<10	80	<0.5	<2	0.01	5.5	3	6	78	0.55
I028039		5.67	0.008	0.3	0.68	263	<10	60	<0.5	<2	0.01	<0.5	3	6	62	0.41
I028040		0.05	0.775	2.9	1.12	14	10	110	<0.5	3	0.74	<0.5	10	47	7710	2.50
I028041		5.81	<0.005	0.2	0.55	13	<10	50	<0.5	<2	0.01	<0.5	3	6	60	0.30
I028042		5.98	0.006	0.3	0.54	75	<10	80	<0.5	<2	<0.01	<0.5	2	6	132	0.72
I028043		5.20	<0.005	0.2	0.64	82	<10	150	<0.5	<2	0.01	<0.5	2	7	16	1.21
I028044		4.73	0.009	0.3	0.67	127	<10	200	<0.5	<2	0.01	<0.5	2	5	15	1.00
I028045		5.79	0.009	0.3	0.67	293	<10	110	<0.5	<2	<0.01	<0.5	2	5	13	0.66
I028046		5.52	0.005	0.4	0.58	52	<10	100	<0.5	2	<0.01	<0.5	2	7	16	0.57
I028047		6.09	0.006	0.6	0.51	85	<10	80	<0.5	4	<0.01	<0.5	2	6	62	0.44
I028048		5.65	<0.005	<0.2	0.48	60	<10	60	<0.5	<2	<0.01	<0.5	2	5	12	0.47
I028049		5.26	<0.005	0.2	0.58	18	<10	90	<0.5	<2	<0.01	<0.5	2	6	14	0.51
I028050		0.63	<0.005	0.3	0.03	<2	<10	10	<0.5	4	>25.0	<0.5	<1	<1	1	0.08
I028051		6.07	0.005	0.4	0.50	13	<10	90	<0.5	3	0.04	<0.5	2	6	49	0.64
I028052		4.62	<0.005	<0.2	0.35	18	<10	50	<0.5	<2	0.04	4.0	3	7	36	0.96
I028053		4.39	<0.005	0.2	0.48	21	<10	70	<0.5	<2	0.03	4.1	4	7	66	0.91
I028054		5.82	0.012	1.1	0.47	953	<10	70	<0.5	26	0.01	1.0	17	5	194	1.42
I028055		5.63	<0.005	0.4	0.62	73	<10	70	<0.5	6	0.02	0.5	7	5	99	0.68
I028056		5.18	<0.005	0.6	0.54	51	<10	60	<0.5	21	0.01	3.6	7	5	45	0.56
I028057		5.50	0.005	0.2	0.50	292	<10	50	<0.5	3	0.01	0.5	3	6	56	0.68
I028058		2.75	<0.005	0.3	0.53	12	<10	60	<0.5	<2	0.01	1.9	3	6	43	0.62
I028059		4.05	<0.005	0.3	0.53	12	<10	50	<0.5	5	0.01	0.7	4	7	48	0.63
I028060		0.06	0.263	1.0	1.44	5	<10	120	<0.5	2	0.85	0.6	12	27	3150	2.94
I028061		4.55	<0.005	0.2	0.46	21	<10	50	<0.5	<2	<0.01	<0.5	3	6	92	0.63
I028062		5.77	<0.005	0.3	0.40	91	<10	60	<0.5	<2	<0.01	<0.5	3	7	127	0.60
I028063		5.75	<0.005	0.4	0.38	197	<10	60	<0.5	4	<0.01	<0.5	2	7	85	0.88
I028064		5.90	0.028	1.3	0.38	4650	<10	50	<0.5	48	<0.01	<0.5	9	8	188	0.97
I028065		5.68	0.007	0.6	0.46	87	<10	50	<0.5	4	<0.01	1.5	4	7	131	1.06
I028066		6.55	<0.005	0.6	0.40	450	<10	50	<0.5	2	<0.01	<0.5	4	7	87	0.81
I028067		4.96	<0.005	0.7	0.40	163	<10	60	<0.5	4	<0.01	<0.5	4	6	73	1.02
I028068		6.60	0.005	0.7	0.39	197	<10	50	<0.5	8	<0.01	<0.5	2	6	56	0.87
I028069		5.56	0.012	0.4	0.41	1145	<10	50	<0.5	3	0.01	<0.5	12	5	121	0.89
I028070		0.40	<0.005	0.3	0.02	8	<10	10	<0.5	3	>25.0	<0.5	1	1	3	0.09
I028071		6.77	0.007	0.3	0.36	238	<10	60	<0.5	<2	0.02	0.9	5	3	80	0.69
I028072		5.40	<0.005	0.3	0.39	40	<10	80	<0.5	<2	0.01	4.6	8	3	66	0.57
I028073		6.06	0.020	0.8	0.42	100	<10	120	<0.5	10	0.02	0.8	9	4	151	1.76
I028074		6.14	0.122	1.4	0.47	57	<10	60	0.6	6	0.03	1.4	6	4	795	1.90

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To: TRIUMPH GOLD CORP.
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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	
I028035		<10	<1	0.19	20	0.04	281	2	0.04	2	70	7	0.20	<2	1	5	
I028036		<10	<1	0.17	20	0.02	68	2	0.03	2	90	8	0.23	<2	1	8	
I028037		<10	<1	0.20	20	0.01	16	2	0.01	2	60	7	0.18	3	<1	4	
I028038		<10	1	0.21	20	0.01	19	2	<0.01	2	60	35	0.49	5	<1	6	
I028039		<10	<1	0.21	20	<0.01	14	3	0.01	2	60	22	0.43	3	<1	4	
I028040		<10	<1	0.09	<10	0.52	386	343	0.07	33	500	5	0.60	<2	4	36	
I028041		<10	<1	0.20	20	<0.01	13	2	<0.01	2	50	11	0.21	<2	<1	4	
I028042		<10	<1	0.23	10	0.01	14	2	0.01	1	30	21	0.40	2	<1	3	
I028043		<10	<1	0.32	20	0.01	12	3	0.02	1	50	43	0.41	<2	<1	6	
I028044		<10	<1	0.37	20	0.01	12	2	0.01	<1	80	59	0.39	<2	1	8	
I028045		<10	<1	0.30	20	0.01	13	2	0.02	1	50	36	0.22	<2	1	6	
I028046		<10	<1	0.29	20	0.01	13	3	<0.01	1	50	62	0.19	2	<1	5	
I028047		<10	<1	0.28	20	0.01	12	2	<0.01	1	30	26	0.22	3	<1	4	
I028048		<10	<1	0.23	20	0.01	16	1	0.01	2	40	6	0.13	<2	<1	3	
I028049		<10	<1	0.24	20	0.01	11	2	<0.01	1	40	12	0.15	<2	<1	3	
I028050		<10	1	0.01	<10	1.06	119	<1	<0.01	<1	70	<2	0.01	<2	<1	86	
I028051		<10	<1	0.31	20	0.01	15	2	0.02	1	90	8	0.37	2	<1	8	
I028052		<10	<1	0.19	20	0.03	255	1	0.04	2	80	5	0.22	<2	<1	5	
I028053		<10	<1	0.24	20	0.02	147	2	0.02	2	100	5	0.51	4	<1	5	
I028054		<10	<1	0.26	10	0.01	16	4	<0.01	4	80	32	1.49	10	1	3	
I028055		<10	<1	0.23	20	0.01	17	8	<0.01	2	100	7	0.64	8	1	5	
I028056		<10	<1	0.20	20	0.01	17	2	<0.01	2	80	23	0.50	5	<1	3	
I028057		<10	1	0.23	10	0.01	17	3	<0.01	1	60	5	0.63	7	<1	4	
I028058		<10	<1	0.24	10	0.01	16	2	<0.01	1	60	6	0.58	6	<1	4	
I028059		<10	<1	0.21	10	0.01	19	3	<0.01	2	60	7	0.57	8	<1	5	
I028060		10	<1	0.18	<10	0.70	444	233	0.08	26	650	11	0.44	<2	5	43	
I028061		<10	<1	0.22	10	0.01	16	1	<0.01	2	40	3	0.60	8	<1	5	
I028062		<10	<1	0.28	10	0.01	18	2	<0.01	1	40	5	0.47	7	<1	7	
I028063		<10	<1	0.33	10	0.01	18	2	<0.01	1	40	10	0.50	10	<1	4	
I028064		<10	<1	0.31	10	0.01	19	4	<0.01	1	50	47	0.53	8	<1	3	
I028065		<10	<1	0.31	10	0.01	17	2	<0.01	2	50	23	1.12	11	<1	6	
I028066		<10	<1	0.28	10	0.01	18	2	<0.01	2	30	13	0.64	8	<1	5	
I028067		<10	<1	0.35	10	0.01	16	2	<0.01	2	50	20	0.69	5	<1	5	
I028068		<10	<1	0.30	10	0.01	16	1	<0.01	1	50	30	0.44	6	<1	5	
I028069		<10	<1	0.31	10	0.01	15	1	<0.01	2	30	15	0.73	6	<1	5	
I028070		<10	<1	0.01	<10	0.64	100	<1	0.01	<1	80	<2	0.02	<2	<1	82	
I028071		<10	<1	0.29	10	0.01	16	<1	<0.01	2	20	20	0.65	3	<1	3	
I028072		<10	<1	0.29	10	0.01	18	2	<0.01	4	20	26	0.53	3	<1	2	
I028073		<10	<1	0.28	10	0.02	107	2	<0.01	2	70	15	1.52	16	<1	4	
I028074		<10	<1	0.34	10	0.02	165	8	<0.01	2	70	9	1.14	12	<1	14	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I028035		20	<0.01	<10	10	1	<10	50	
I028036		20	<0.01	<10	20	1	<10	25	
I028037		20	<0.01	<10	<10	1	<10	8	
I028038		20	<0.01	<10	10	1	<10	120	
I028039		20	<0.01	<10	10	1	<10	23	
I028040		<20	0.10	<10	<10	48	30	56	
I028041		20	<0.01	<10	<10	1	<10	10	
I028042		<20	<0.01	<10	<10	1	<10	43	
I028043		20	<0.01	<10	<10	2	<10	5	
I028044		20	<0.01	<10	<10	4	<10	5	
I028045		20	<0.01	<10	<10	2	<10	5	
I028046		20	<0.01	<10	<10	1	<10	3	
I028047		20	<0.01	<10	10	1	<10	5	
I028048		20	<0.01	<10	<10	1	<10	6	
I028049		20	<0.01	<10	<10	1	<10	2	
I028050		<20	<0.01	<10	<10	<1	<10	<2	
I028051		20	<0.01	<10	<10	1	<10	8	
I028052		20	<0.01	<10	10	1	<10	30	
I028053		20	<0.01	<10	10	1	<10	22	
I028054		30	<0.01	<10	10	2	<10	33	
I028055		30	<0.01	<10	10	2	<10	9	
I028056		30	<0.01	<10	20	1	<10	40	
I028057		20	<0.01	<10	10	1	<10	25	
I028058		20	<0.01	<10	10	1	<10	23	
I028059		20	<0.01	<10	10	1	<10	20	
I028060		<20	0.12	<10	<10	58	10	58	
I028061		20	<0.01	<10	<10	1	<10	10	
I028062		20	<0.01	<10	10	1	<10	9	
I028063		20	<0.01	<10	<10	1	<10	8	
I028064		<20	<0.01	<10	10	1	<10	12	
I028065		20	<0.01	<10	10	1	<10	44	
I028066		20	<0.01	<10	<10	1	<10	8	
I028067		20	<0.01	<10	<10	1	<10	9	
I028068		20	<0.01	<10	<10	2	<10	8	
I028069		20	<0.01	<10	<10	1	<10	7	
I028070		<20	<0.01	<10	<10	<1	<10	3	
I028071		20	<0.01	<10	<10	1	<10	12	
I028072		20	<0.01	<10	<10	1	<10	91	
I028073		20	<0.01	<10	10	<1	<10	70	
I028074		20	<0.01	<10	10	1	<10	80	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I028075		6.37	0.017	2.7	0.45	66	<10	70	0.5	73	0.02	0.9	5	6	81	1.23
I028076		5.18	0.008	1.0	0.44	87	<10	40	<0.5	20	0.03	0.6	6	6	85	1.29
I028077		5.63	<0.005	0.4	0.37	17	<10	70	<0.5	3	0.03	0.5	4	5	58	1.46
I028078		5.67	<0.005	0.7	0.31	21	<10	60	<0.5	6	0.05	<0.5	3	5	59	1.68
I028079		5.75	<0.005	0.4	0.27	9	<10	60	<0.5	<2	0.06	0.6	2	6	47	1.70
I028080		0.06	0.269	1.1	1.51	5	<10	120	<0.5	<2	0.89	0.6	13	29	3290	3.06
I028081		5.89	0.017	1.4	0.28	52	<10	40	<0.5	24	0.04	0.7	3	6	218	1.59
I028082		5.93	<0.005	0.2	0.27	18	<10	50	<0.5	<2	0.04	<0.5	2	6	55	1.45
I028083		5.94	<0.005	0.2	0.23	11	<10	70	<0.5	<2	0.06	<0.5	1	5	17	1.38
I028084		5.66	0.018	0.5	0.29	872	<10	50	<0.5	3	0.06	<0.5	2	5	54	2.02
I028085		5.28	0.005	<0.2	0.26	16	<10	60	<0.5	<2	0.05	1.2	1	5	21	1.31
I028086		5.94	<0.005	0.3	0.23	19	<10	50	<0.5	<2	0.05	<0.5	2	6	30	1.29
I028087		6.45	<0.005	0.2	0.22	78	<10	60	<0.5	<2	0.06	<0.5	4	6	44	1.46
I028088		3.98	<0.005	0.2	0.24	7	<10	60	<0.5	<2	0.28	<0.5	1	8	23	1.01
I028089		5.16	<0.005	4.2	0.26	92	<10	60	<0.5	56	0.06	0.8	1	8	65	1.46
I028090		0.51	<0.005	0.3	0.01	<2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	1	0.06
I028091		4.29	<0.005	0.3	0.25	274	<10	50	<0.5	<2	0.09	<0.5	2	7	31	1.35
I028092		4.03	<0.005	0.2	0.30	34	<10	50	<0.5	<2	0.09	<0.5	1	7	27	1.45
I028093		4.50	<0.005	0.2	0.29	18	<10	50	<0.5	<2	0.06	<0.5	2	7	23	1.25
I028094		4.36	0.009	0.4	0.34	868	<10	100	<0.5	2	0.06	<0.5	2	7	92	1.59
I028095		4.64	0.045	0.8	0.36	2290	<10	50	<0.5	6	0.04	0.9	2	6	47	1.45
I028096		4.55	0.062	2.5	0.36	4060	<10	50	<0.5	23	0.05	<0.5	2	6	74	1.73
I028097		4.08	0.006	0.7	0.31	72	<10	70	<0.5	5	0.06	<0.5	2	6	77	1.94
I028098		4.15	0.005	0.5	0.30	21	<10	60	<0.5	<2	0.05	<0.5	1	6	77	1.45
I028099		4.52	0.021	0.4	0.41	57	<10	40	<0.5	3	0.02	<0.5	3	5	66	1.28
I028100		0.07	1.420	4.7	1.36	19	10	140	<0.5	3	0.80	0.6	13	40	>10000	3.33
I028101		4.88	0.124	1.3	0.36	6820	<10	190	<0.5	7	0.02	1.8	3	5	214	1.86
I028102		3.61	0.012	0.2	0.36	978	<10	50	<0.5	<2	0.06	<0.5	2	6	48	1.52
I028103		4.52	0.007	0.2	0.25	319	<10	50	<0.5	5	0.08	<0.5	2	7	36	1.48
I028104		4.66	0.008	0.3	0.30	557	<10	90	<0.5	3	0.25	<0.5	1	8	84	1.61
I028105		4.46	0.031	0.2	0.27	2110	<10	120	<0.5	4	0.12	<0.5	1	7	51	1.32
I028106		4.53	0.006	0.2	0.31	58	<10	70	<0.5	3	0.33	<0.5	1	8	67	1.36
I028107		3.04	0.012	0.3	0.24	755	<10	70	<0.5	10	0.18	<0.5	1	6	51	1.30
I028108		4.11	0.005	<0.2	0.24	72	<10	70	<0.5	2	0.29	<0.5	1	8	41	1.22
I028109		5.77	0.005	<0.2	0.22	10	<10	60	<0.5	<2	0.26	<0.5	1	8	22	1.06
I028110		0.43	<0.005	<0.2	0.01	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
I028111		6.10	<0.005	0.2	0.23	22	<10	50	<0.5	<2	0.67	1.0	1	9	24	0.83
I028112		5.14	0.059	0.4	0.33	31	<10	40	<0.5	7	0.24	1.3	9	6	27	1.52
I028113		5.15	0.013	0.3	0.36	455	<10	60	<0.5	2	0.08	<0.5	1	6	46	1.69
I028114		5.40	0.083	0.3	0.37	985	<10	50	0.5	2	0.07	0.5	2	6	61	1.61

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I028075		<10	<1	0.28	10	0.01	76	9	<0.01	3	70	71	0.94	11	<1	4
I028076		<10	<1	0.21	10	0.02	213	1	<0.01	1	60	28	0.73	5	<1	4
I028077		<10	<1	0.19	10	0.02	202	2	0.01	2	60	11	0.80	<2	<1	4
I028078		<10	<1	0.19	10	0.03	226	3	0.02	1	60	17	0.75	<2	<1	4
I028079		<10	<1	0.18	10	0.02	287	6	0.03	<1	70	14	0.61	<2	<1	5
I028080		10	<1	0.20	10	0.73	465	237	0.08	23	690	10	0.46	<2	5	45
I028081		<10	<1	0.19	10	0.02	157	5	0.02	1	60	28	0.94	<2	<1	5
I028082		<10	<1	0.20	10	0.02	215	8	0.03	1	70	8	0.60	<2	<1	5
I028083		<10	<1	0.17	20	0.03	313	5	0.04	1	80	7	0.54	<2	<1	6
I028084		<10	<1	0.19	10	0.03	321	11	0.03	1	60	11	0.77	<2	<1	5
I028085		<10	<1	0.17	20	0.02	266	42	0.04	<1	70	7	0.42	<2	<1	5
I028086		<10	<1	0.17	10	0.02	236	11	0.04	1	70	8	0.43	<2	<1	5
I028087		<10	<1	0.17	10	0.02	271	16	0.04	1	60	5	0.55	<2	<1	6
I028088		<10	<1	0.18	20	0.04	208	14	0.05	<1	60	5	0.36	<2	<1	12
I028089		<10	<1	0.19	20	0.02	243	23	0.05	1	60	68	0.58	3	<1	5
I028090		<10	<1	<0.01	<10	0.46	117	<1	<0.01	<1	90	<2	<0.01	<2	<1	85
I028091		<10	<1	0.18	20	0.02	249	9	0.05	1	70	9	0.48	<2	<1	6
I028092		<10	<1	0.19	20	0.02	266	13	0.04	1	70	7	0.46	<2	<1	5
I028093		<10	<1	0.17	20	0.02	243	58	0.04	1	80	8	0.35	<2	<1	6
I028094		<10	<1	0.19	10	0.03	301	36	0.03	1	70	11	0.61	<2	<1	5
I028095		<10	<1	0.22	10	0.03	164	19	0.01	<1	60	29	0.81	<2	<1	4
I028096		<10	<1	0.22	10	0.02	159	7	0.01	<1	60	36	0.86	4	<1	3
I028097		<10	<1	0.21	10	0.02	270	7	0.02	1	60	8	0.93	<2	<1	3
I028098		<10	<1	0.18	10	0.02	289	6	0.03	1	60	6	0.50	<2	<1	4
I028099		<10	<1	0.21	10	0.02	112	6	<0.01	2	60	14	0.93	5	<1	3
I028100		<10	1	0.13	<10	0.62	496	436	0.10	32	530	8	0.90	<2	5	44
I028101		<10	<1	0.24	10	0.02	119	11	<0.01	<1	60	34	1.19	14	<1	5
I028102		<10	<1	0.18	20	0.03	294	28	0.02	1	60	7	0.48	3	<1	4
I028103		<10	<1	0.17	20	0.03	306	14	0.04	<1	60	10	0.54	<2	<1	5
I028104		<10	<1	0.20	10	0.05	191	12	0.03	<1	60	8	0.80	<2	<1	11
I028105		<10	<1	0.18	10	0.04	156	10	0.05	2	60	9	0.67	<2	<1	8
I028106		<10	<1	0.21	10	0.04	108	7	0.03	1	50	5	0.72	<2	<1	11
I028107		<10	<1	0.18	10	0.04	118	8	0.05	1	50	12	0.75	<2	<1	8
I028108		<10	<1	0.18	20	0.05	187	13	0.06	2	60	6	0.55	<2	<1	12
I028109		<10	<1	0.17	20	0.04	215	11	0.06	1	60	6	0.41	<2	1	9
I028110		<10	1	<0.01	<10	0.52	110	<1	0.01	<1	60	<2	<0.01	<2	<1	84
I028111		<10	<1	0.17	10	0.04	197	12	0.04	1	60	6	0.40	<2	<1	17
I028112		<10	<1	0.16	10	0.04	708	12	0.02	<1	60	15	0.56	2	1	7
I028113		<10	<1	0.18	10	0.02	167	13	0.02	<1	60	11	0.49	2	<1	5
I028114		<10	<1	0.18	10	0.03	276	2	0.03	1	60	8	0.62	3	1	5

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001
I028075		20	<0.01	<10	10	<1	<10	54	
I028076		20	<0.01	<10	10	<1	<10	39	
I028077		20	<0.01	<10	10	<1	<10	60	
I028078		20	<0.01	<10	10	<1	<10	33	
I028079		20	<0.01	<10	10	<1	<10	70	
I028080		<20	0.13	<10	<10	61	10	58	
I028081		20	<0.01	<10	10	<1	<10	61	
I028082		20	<0.01	<10	10	<1	<10	32	
I028083		20	<0.01	<10	10	1	<10	19	
I028084		20	<0.01	<10	10	<1	<10	44	
I028085		20	<0.01	<10	10	1	<10	105	
I028086		20	<0.01	<10	10	<1	<10	32	
I028087		20	<0.01	<10	10	<1	<10	54	
I028088		20	<0.01	<10	10	1	<10	35	
I028089		20	<0.01	<10	10	<1	<10	86	
I028090		<20	<0.01	<10	<10	<1	<10	2	
I028091		20	<0.01	<10	10	1	<10	21	
I028092		20	<0.01	<10	<10	1	<10	16	
I028093		20	<0.01	<10	10	1	<10	19	
I028094		20	<0.01	<10	10	<1	<10	25	
I028095		20	<0.01	<10	10	<1	<10	83	
I028096		20	<0.01	<10	10	<1	<10	46	
I028097		20	<0.01	<10	10	<1	<10	30	
I028098		20	<0.01	<10	10	<1	<10	29	
I028099		20	<0.01	<10	<10	<1	<10	32	
I028100		<20	0.11	<10	<10	54	30	75	1.375
I028101		20	<0.01	<10	10	<1	<10	56	
I028102		20	<0.01	<10	10	<1	<10	21	
I028103		20	<0.01	<10	<10	1	<10	44	
I028104		20	<0.01	<10	10	<1	<10	27	
I028105		20	<0.01	<10	<10	1	<10	28	
I028106		20	<0.01	<10	10	<1	<10	8	
I028107		20	<0.01	<10	10	<1	<10	8	
I028108		20	<0.01	<10	10	1	<10	16	
I028109		20	<0.01	<10	<10	1	<10	11	
I028110		<20	<0.01	<10	<10	<1	<10	<2	
I028111		20	<0.01	<10	10	1	<10	95	
I028112		20	<0.01	<10	10	1	<10	233	
I028113		20	<0.01	<10	<10	<1	<10	42	
I028114		20	<0.01	<10	10	1	<10	35	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I028115		5.45	0.017	0.6	0.49	124	<10	50	0.5	5	0.03	6.2	4	7	66	1.41
I028116		5.43	0.014	0.2	0.34	495	<10	60	<0.5	<2	0.03	<0.5	2	5	43	1.30
I028117		4.69	0.005	0.2	0.44	202	<10	100	<0.5	2	0.01	<0.5	<1	5	29	1.02
I028118		4.91	0.010	0.2	0.44	132	<10	80	<0.5	2	0.01	<0.5	1	6	13	1.14
I028119		5.42	0.005	0.2	0.39	19	<10	50	<0.5	<2	0.03	<0.5	1	5	62	0.53
I028120		0.06	0.257	1.1	1.48	6	<10	120	<0.5	3	0.89	0.5	11	27	3190	3.02
I028121		4.97	<0.005	0.2	0.44	70	<10	90	<0.5	2	0.02	<0.5	1	4	12	1.03
I028122		5.36	<0.005	<0.2	0.26	7	<10	50	<0.5	<2	0.05	<0.5	1	6	17	0.88
I028123		5.77	0.007	0.3	0.24	560	<10	60	<0.5	32	0.15	<0.5	2	7	40	1.33
I028124		5.90	0.058	0.2	0.24	45	<10	50	<0.5	<2	0.33	<0.5	1	8	47	1.08
I028125		5.98	0.168	0.4	0.26	640	<10	70	<0.5	3	0.19	<0.5	1	6	113	1.66
I028126		5.73	<0.005	0.2	0.28	62	<10	80	<0.5	3	0.19	<0.5	3	6	73	1.59
I028127		5.51	0.007	0.5	0.27	436	<10	70	<0.5	4	0.12	<0.5	3	7	87	1.39
I028128		5.63	0.009	<0.2	0.28	77	<10	70	<0.5	<2	0.07	<0.5	2	7	19	1.17
I028129		5.14	0.012	0.3	0.36	544	<10	110	<0.5	2	0.03	<0.5	1	5	48	1.55
I028130		0.50	<0.005	0.2	0.02	2	<10	20	<0.5	3	>25.0	<0.5	<1	1	1	0.10
I028131		5.79	0.006	0.2	0.39	213	<10	90	<0.5	<2	0.05	<0.5	1	5	48	1.18
I028132		5.48	0.007	<0.2	0.47	331	<10	160	<0.5	<2	0.12	<0.5	1	4	23	2.29
I028133		5.59	<0.005	0.2	0.40	15	<10	80	<0.5	<2	0.04	<0.5	1	6	27	1.17
I028134		6.07	<0.005	0.2	0.31	117	<10	50	<0.5	<2	0.06	0.8	1	6	21	0.84
I028135		5.46	<0.005	<0.2	0.46	126	<10	100	<0.5	<2	0.02	<0.5	1	5	13	1.32
I028136		4.89	0.394	1.5	0.43	7170	<10	90	<0.5	18	0.01	<0.5	2	5	179	1.63
I028137		4.34	<0.005	<0.2	0.40	47	<10	70	<0.5	<2	0.03	<0.5	1	6	16	1.06
I028138		3.28	0.013	<0.2	0.29	31	<10	40	<0.5	<2	0.04	<0.5	2	6	6	0.83
I028139		5.52	<0.005	<0.2	0.25	46	<10	60	<0.5	<2	0.04	<0.5	2	7	8	1.00
I028140		0.06	0.781	3.0	1.12	15	10	110	<0.5	3	0.75	<0.5	11	47	7770	2.49
I028141		5.42	0.033	<0.2	0.24	42	<10	60	<0.5	<2	0.04	<0.5	3	7	24	1.14
I028142		5.14	0.081	0.7	0.22	4390	<10	60	<0.5	7	0.19	<0.5	4	7	102	1.41
I028143		3.74	<0.005	0.3	0.24	491	<10	60	<0.5	2	0.32	<0.5	2	9	24	1.09
I028144		5.72	0.009	0.2	0.19	292	<10	120	<0.5	<2	0.35	<0.5	2	7	18	0.89
I028145		5.57	<0.005	0.2	0.22	28	<10	60	<0.5	<2	0.22	<0.5	2	7	17	1.02
I028146		4.42	<0.005	<0.2	0.21	8	<10	50	<0.5	<2	0.37	<0.5	2	8	14	0.86
I028147		4.35	0.580	3.2	0.27	3480	<10	50	<0.5	9	0.34	0.8	2	6	433	2.24
I028148		5.79	0.008	0.4	0.22	87	<10	50	<0.5	2	0.41	<0.5	2	6	40	1.04
I028149		6.26	0.008	0.2	0.24	16	<10	40	<0.5	<2	0.36	<0.5	2	6	35	1.15
I028150		0.40	<0.005	0.3	0.02	4	<10	10	<0.5	2	>25.0	<0.5	<1	1	1	0.08
I028151		5.72	<0.005	0.2	0.27	8	<10	40	<0.5	<2	0.13	<0.5	2	7	24	1.04
I028152		5.72	0.006	<0.2	0.21	6	<10	40	<0.5	<2	0.31	<0.5	2	8	12	0.79
I028153		5.76	0.006	0.2	0.28	41	<10	50	<0.5	<2	0.14	<0.5	2	8	27	1.00
I028154		5.50	0.007	0.2	0.20	41	<10	50	<0.5	<2	0.32	<0.5	1	9	18	0.89

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I028115		<10	<1	0.21	10	0.02	153	3	<0.01	3	60	14	0.91	7	<1	3
I028116		<10	<1	0.20	20	0.01	115	3	0.03	1	70	6	0.43	<2	<1	5
I028117		<10	<1	0.28	20	0.01	21	4	<0.01	1	70	10	0.27	5	<1	8
I028118		<10	<1	0.24	20	0.01	27	6	0.01	<1	80	8	0.20	2	<1	6
I028119		<10	<1	0.19	20	0.01	22	11	0.02	1	50	7	0.31	2	<1	4
I028120		10	<1	0.19	10	0.71	456	225	0.08	23	630	9	0.44	3	5	43
I028121		<10	<1	0.25	20	0.01	28	5	0.03	<1	70	4	0.22	<2	<1	7
I028122		<10	<1	0.17	20	0.02	198	3	0.04	1	60	4	0.30	<2	<1	5
I028123		<10	<1	0.17	10	0.03	324	2	0.04	<1	60	13	0.57	<2	1	7
I028124		<10	<1	0.17	10	0.05	225	8	0.04	1	70	7	0.49	<2	<1	13
I028125		<10	<1	0.19	10	0.04	238	5	0.03	1	70	8	0.95	<2	<1	9
I028126		<10	<1	0.20	10	0.03	340	1	0.01	<1	60	7	0.90	<2	<1	7
I028127		<10	<1	0.19	10	0.03	283	2	0.03	<1	60	11	0.67	<2	<1	5
I028128		<10	<1	0.20	20	0.02	177	1	0.04	<1	60	9	0.34	<2	<1	6
I028129		<10	<1	0.26	20	0.02	44	1	0.02	<1	70	15	0.32	2	<1	7
I028130		<10	<1	0.01	<10	1.73	139	<1	<0.01	<1	80	<2	<0.01	<2	<1	80
I028131		<10	<1	0.25	20	0.01	27	1	0.01	2	60	9	0.38	<2	<1	6
I028132		<10	<1	0.35	20	0.01	33	1	0.02	1	80	8	0.61	<2	1	9
I028133		<10	<1	0.22	20	0.01	37	1	0.03	1	70	7	0.34	2	<1	6
I028134		<10	<1	0.15	20	0.01	30	1	0.04	1	70	7	0.29	<2	<1	5
I028135		<10	<1	0.24	20	0.01	27	1	0.02	1	70	8	0.25	<2	<1	7
I028136		<10	<1	0.24	10	0.01	21	2	0.02	1	70	32	0.72	9	<1	6
I028137		<10	<1	0.19	20	0.01	37	4	0.04	1	70	8	0.21	2	<1	5
I028138		<10	<1	0.13	20	0.01	86	4	0.04	2	70	7	0.15	<2	1	4
I028139		<10	<1	0.16	20	0.02	364	3	0.05	2	70	7	0.10	<2	1	5
I028140		<10	1	0.09	<10	0.52	389	353	0.07	32	500	7	0.60	<2	4	36
I028141		<10	<1	0.15	20	0.01	175	3	0.05	3	70	9	0.23	<2	1	5
I028142		<10	<1	0.16	20	0.04	373	6	0.04	1	60	14	0.63	3	1	8
I028143		<10	<1	0.16	20	0.04	351	5	0.05	1	70	10	0.31	<2	1	11
I028144		<10	<1	0.13	20	0.04	303	5	0.04	1	70	9	0.27	<2	1	13
I028145		<10	<1	0.15	20	0.04	282	4	0.05	1	70	13	0.31	<2	1	9
I028146		<10	<1	0.15	20	0.03	226	7	0.05	1	60	10	0.28	<2	1	11
I028147		<10	<1	0.19	10	0.04	180	6	0.04	1	60	31	1.35	2	<1	10
I028148		<10	<1	0.16	10	0.03	191	10	0.02	1	60	13	0.53	<2	<1	9
I028149		<10	<1	0.16	10	0.04	206	7	0.03	1	60	8	0.54	<2	<1	9
I028150		<10	<1	0.01	<10	1.15	105	<1	<0.01	<1	70	2	0.02	<2	<1	81
I028151		<10	<1	0.15	10	0.03	219	6	0.03	2	60	8	0.38	<2	1	4
I028152		<10	<1	0.14	20	0.04	222	7	0.04	<1	70	6	0.21	<2	1	7
I028153		<10	<1	0.17	20	0.03	219	10	0.03	1	60	8	0.40	<2	<1	5
I028154		<10	<1	0.14	20	0.04	216	6	0.04	1	70	8	0.33	<2	1	10

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I028115		20	<0.01	<10	10	<1	<10	435	
I028116		20	<0.01	<10	10	1	<10	36	
I028117		20	<0.01	<10	<10	1	<10	19	
I028118		20	<0.01	<10	<10	<1	<10	16	
I028119		20	<0.01	<10	<10	<1	<10	8	
I028120		<20	0.13	<10	<10	58	10	56	
I028121		20	<0.01	<10	<10	1	<10	10	
I028122		20	<0.01	<10	10	1	<10	11	
I028123		20	<0.01	<10	<10	1	<10	24	
I028124		20	<0.01	<10	<10	1	<10	9	
I028125		20	<0.01	<10	10	<1	<10	28	
I028126		20	<0.01	<10	10	<1	<10	35	
I028127		20	<0.01	<10	10	<1	<10	34	
I028128		20	<0.01	<10	10	1	<10	28	
I028129		20	<0.01	<10	<10	1	<10	22	
I028130		<20	<0.01	<10	<10	<1	<10	2	
I028131		20	<0.01	<10	<10	1	<10	20	
I028132		30	<0.01	<10	<10	1	<10	13	
I028133		20	<0.01	<10	<10	1	<10	11	
I028134		20	<0.01	<10	10	1	<10	17	
I028135		20	<0.01	<10	<10	1	<10	13	
I028136		20	<0.01	<10	10	<1	<10	31	
I028137		20	<0.01	<10	<10	1	<10	13	
I028138		20	<0.01	<10	10	1	<10	27	
I028139		20	<0.01	<10	<10	1	<10	44	
I028140		<20	0.11	<10	<10	48	30	56	
I028141		20	<0.01	<10	10	1	<10	53	
I028142		20	<0.01	<10	<10	1	<10	29	
I028143		20	<0.01	<10	<10	1	<10	24	
I028144		20	<0.01	<10	<10	1	<10	19	
I028145		20	<0.01	<10	<10	1	<10	35	
I028146		20	<0.01	<10	<10	1	<10	23	
I028147		20	<0.01	<10	<10	1	<10	75	
I028148		20	<0.01	<10	<10	<1	<10	25	
I028149		20	<0.01	<10	<10	<1	<10	14	
I028150		<20	<0.01	<10	<10	<1	<10	<2	
I028151		20	<0.01	<10	<10	1	<10	38	
I028152		20	<0.01	<10	10	1	<10	15	
I028153		20	<0.01	<10	<10	1	<10	33	
I028154		20	<0.01	<10	<10	1	<10	28	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I028155		5.82	0.005	0.2	0.22	5	<10	60	<0.5	<2	0.40	<0.5	1	10	14	0.91
I028156		6.09	<0.005	0.2	0.23	19	<10	60	<0.5	<2	0.40	<0.5	1	10	18	0.92
I028157		6.16	0.006	0.2	0.22	90	<10	80	<0.5	<2	0.49	<0.5	2	10	16	0.94
I028158		5.69	0.009	<0.2	0.25	26	<10	60	<0.5	<2	0.50	<0.5	1	9	12	0.89
I028159		5.89	0.008	<0.2	0.24	8	<10	60	<0.5	<2	0.41	<0.5	1	9	23	0.97
I028160		0.05	0.247	0.9	1.42	7	<10	110	<0.5	<2	0.87	<0.5	11	27	3090	2.97

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I028155		<10	<1	0.15	20	0.04	235	10	0.05	1	70	8	0.30	<2	1	10
I028156		<10	<1	0.16	20	0.04	260	6	0.05	1	70	8	0.28	<2	1	11
I028157		<10	<1	0.16	20	0.04	253	8	0.04	1	70	12	0.30	<2	1	11
I028158		<10	<1	0.18	20	0.04	274	8	0.06	1	70	9	0.27	<2	1	12
I028159		<10	<1	0.18	20	0.04	219	11	0.05	1	70	8	0.37	<2	1	11
I028160		10	<1	0.18	<10	0.68	438	217	0.08	23	620	9	0.45	<2	5	42

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I028155		20	<0.01	<10	<10	1	<10	18	
I028156		20	<0.01	<10	10	1	<10	15	
I028157		20	<0.01	<10	<10	1	<10	22	
I028158		20	<0.01	<10	<10	1	<10	14	
I028159		20	<0.01	<10	<10	1	<10	24	
I028160		<20	0.13	<10	<10	57	10	55	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186569

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:			
CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au- AA23	Cu- OG46	ME-ICP41	ME- OG46

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17186574

Project: FREEGOLD MOUNTAIN

P.O. No.: 1005139- NOFREG- R1

This report is for 202 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I028161		5.70	<0.005	<0.2	0.24	4	<10	40	<0.5	<2	0.35	<0.5	2	6	8	0.82
I028162		4.96	<0.005	<0.2	0.39	16	<10	30	<0.5	<2	0.06	0.7	3	3	19	0.98
I028163		5.83	<0.005	<0.2	0.41	109	<10	30	<0.5	<2	0.07	<0.5	3	3	26	1.04
I028164		5.17	<0.005	<0.2	0.26	23	<10	40	<0.5	2	0.12	<0.5	2	4	26	1.02
I028165		5.74	<0.005	0.2	0.25	188	<10	70	<0.5	3	0.23	<0.5	2	4	18	1.09
I028166		5.56	<0.005	<0.2	0.24	171	<10	50	<0.5	<2	0.21	<0.5	2	5	8	0.93
I028167		5.75	<0.005	0.2	0.24	221	<10	70	<0.5	2	0.36	<0.5	1	4	70	1.28
I028168		5.76	0.008	0.3	0.24	460	<10	70	<0.5	5	0.30	<0.5	1	5	46	1.23
I028169		6.05	<0.005	<0.2	0.24	24	<10	50	<0.5	<2	0.44	<0.5	1	5	13	0.86
I028170		0.47	<0.005	<0.2	0.01	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.09
I028171		5.74	0.009	<0.2	0.24	449	<10	50	<0.5	2	0.40	<0.5	1	6	22	0.90
I028172		5.68	<0.005	<0.2	0.25	14	<10	60	<0.5	<2	0.30	<0.5	1	6	36	1.05
I028173		5.81	<0.005	<0.2	0.25	7	<10	50	<0.5	<2	0.36	<0.5	1	5	26	0.90
I028174		6.71	<0.005	<0.2	0.28	64	<10	50	<0.5	2	0.43	<0.5	1	7	8	0.78
I028175		5.28	<0.005	<0.2	0.30	50	<10	40	<0.5	<2	0.50	<0.5	1	5	3	0.77
I028176		5.50	<0.005	<0.2	0.29	19	<10	50	<0.5	<2	0.38	<0.5	1	5	20	0.91
I028177		5.99	<0.005	<0.2	0.27	8	<10	50	<0.5	<2	0.48	<0.5	1	4	11	0.77
I028178		5.64	<0.005	<0.2	0.30	25	<10	50	<0.5	<2	0.44	<0.5	1	6	8	0.78
I028179		5.58	<0.005	<0.2	0.26	34	<10	50	<0.5	<2	0.47	<0.5	1	5	16	0.77
I028180		0.05	0.283	0.8	1.50	6	<10	120	<0.5	<2	0.92	0.5	11	28	3240	2.99
I028181		6.09	0.005	<0.2	0.28	3	<10	50	<0.5	<2	0.46	<0.5	1	7	15	0.77
I028182		5.52	0.006	0.4	0.26	226	<10	60	<0.5	5	0.37	<0.5	1	6	37	1.09
I028183		5.71	<0.005	<0.2	0.28	19	<10	50	<0.5	<2	0.39	<0.5	1	5	36	0.88
I028184		5.74	<0.005	<0.2	0.30	18	<10	60	<0.5	<2	0.42	<0.5	1	4	33	0.93
I028185		5.62	0.012	<0.2	0.27	13	<10	60	<0.5	2	0.24	<0.5	1	5	43	0.84
I028186		5.58	0.080	0.2	0.31	595	<10	70	<0.5	4	0.28	<0.5	2	5	54	1.10
I028187		5.62	<0.005	<0.2	0.25	8	<10	70	<0.5	3	0.56	<0.5	1	4	28	0.80
I028188		5.83	0.008	0.2	0.29	9	<10	110	<0.5	4	0.23	<0.5	1	4	61	1.15
I028189		5.49	<0.005	<0.2	0.28	57	<10	60	<0.5	4	0.34	<0.5	1	7	35	0.84
I028190		0.42	<0.005	<0.2	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.06
I028191		5.80	0.012	0.3	0.22	864	<10	60	<0.5	6	0.37	<0.5	1	6	67	0.99
I028192		5.55	0.023	0.4	0.24	474	<10	60	<0.5	6	0.30	<0.5	1	5	100	1.02
I028193		5.59	<0.005	<0.2	0.27	78	<10	50	<0.5	2	0.44	<0.5	1	5	27	0.93
I028194		5.62	<0.005	<0.2	0.26	54	<10	50	<0.5	2	0.49	<0.5	1	4	19	0.78
I028195		4.88	<0.005	<0.2	0.28	16	<10	60	<0.5	2	0.32	<0.5	1	4	32	0.99
I028196		5.69	<0.005	<0.2	0.24	15	<10	50	<0.5	2	0.45	<0.5	1	4	28	0.94
I028197		5.52	0.084	0.4	0.43	123	<10	50	<0.5	7	0.73	<0.5	1	3	84	1.43
I028198		5.97	<0.005	<0.2	0.27	529	<10	40	<0.5	3	0.46	<0.5	2	3	56	1.15
I028199		5.40	<0.005	0.2	0.31	35	<10	50	<0.5	7	0.34	<0.5	1	4	53	1.02
I028200		0.06	0.728	2.8	1.13	13	10	110	<0.5	3	0.75	<0.5	10	45	7580	2.35

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I028161		<10	<1	0.13	20	0.06	285	3	0.03	1	90	9	0.17	2	1	10
I028162		<10	<1	0.13	20	0.04	269	7	0.01	2	70	8	0.30	2	1	3
I028163		<10	<1	0.13	20	0.04	268	4	0.01	2	90	7	0.44	3	1	4
I028164		<10	<1	0.13	20	0.07	187	2	0.04	2	100	7	0.35	2	1	6
I028165		<10	<1	0.13	20	0.07	254	4	0.04	1	100	10	0.30	2	1	10
I028166		<10	<1	0.15	20	0.05	267	4	0.05	1	90	8	0.18	<2	1	8
I028167		<10	<1	0.18	10	0.04	190	3	0.04	1	90	8	0.61	<2	<1	9
I028168		<10	<1	0.17	10	0.04	183	4	0.04	1	90	15	0.57	<2	1	10
I028169		<10	<1	0.14	20	0.05	261	4	0.04	1	80	9	0.21	<2	1	14
I028170		<10	1	<0.01	<10	1.73	126	<1	<0.01	<1	80	<2	<0.01	3	<1	86
I028171		<10	<1	0.14	20	0.05	173	10	0.04	1	80	10	0.33	<2	1	11
I028172		<10	<1	0.16	20	0.05	152	5	0.05	1	80	9	0.47	<2	1	9
I028173		<10	<1	0.14	20	0.05	181	7	0.04	1	80	9	0.34	<2	1	11
I028174		<10	<1	0.15	20	0.05	276	5	0.05	1	80	8	0.13	2	1	14
I028175		<10	<1	0.14	20	0.06	277	5	0.04	1	80	10	0.11	2	1	15
I028176		<10	<1	0.16	20	0.06	207	5	0.05	1	70	8	0.30	<2	1	11
I028177		<10	<1	0.14	20	0.05	230	4	0.04	<1	80	7	0.22	<2	1	14
I028178		<10	<1	0.15	20	0.05	227	4	0.05	1	70	9	0.16	<2	1	14
I028179		<10	<1	0.14	20	0.05	193	3	0.04	1	70	7	0.23	<2	1	13
I028180		<10	<1	0.19	10	0.70	455	234	0.08	23	640	8	0.45	2	5	45
I028181		<10	<1	0.15	20	0.05	209	6	0.04	1	60	7	0.20	<2	1	13
I028182		<10	<1	0.16	10	0.04	189	6	0.04	1	60	11	0.51	<2	1	12
I028183		<10	<1	0.16	20	0.05	121	3	0.05	<1	70	6	0.34	<2	1	12
I028184		<10	<1	0.18	20	0.05	123	5	0.05	1	80	4	0.34	<2	<1	11
I028185		<10	<1	0.16	20	0.04	116	5	0.05	1	70	3	0.38	<2	<1	9
I028186		<10	1	0.19	10	0.04	111	7	0.04	1	60	5	0.58	<2	<1	10
I028187		<10	1	0.16	10	0.04	143	5	0.05	1	60	4	0.38	<2	<1	16
I028188		<10	1	0.18	10	0.03	102	6	0.05	<1	60	5	0.66	<2	<1	9
I028189		<10	1	0.19	20	0.03	109	9	0.04	1	70	4	0.44	<2	<1	10
I028190		<10	1	0.01	<10	0.48	106	<1	0.01	<1	70	<2	0.02	<2	<1	83
I028191		<10	1	0.18	10	0.04	123	8	0.05	<1	60	6	0.47	<2	<1	10
I028192		<10	1	0.16	10	0.05	133	13	0.05	<1	60	8	0.47	<2	<1	11
I028193		<10	1	0.16	10	0.06	128	4	0.05	1	60	4	0.40	<2	<1	14
I028194		<10	<1	0.15	10	0.09	120	5	0.04	1	60	5	0.35	<2	<1	17
I028195		<10	1	0.18	10	0.06	123	4	0.06	1	60	4	0.45	<2	<1	11
I028196		<10	1	0.15	10	0.06	142	5	0.05	<1	70	5	0.47	<2	<1	14
I028197		<10	<1	0.16	10	0.21	142	4	0.02	1	60	7	0.88	<2	<1	27
I028198		<10	1	0.14	10	0.12	98	4	0.03	1	60	3	0.70	2	<1	18
I028199		<10	1	0.19	10	0.04	90	4	0.04	1	70	7	0.58	<2	<1	11
I028200		<10	<1	0.09	<10	0.52	377	336	0.08	31	490	5	0.59	2	4	36

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I028161		20	<0.01	<10	<10	1	<10	25
I028162		20	<0.01	<10	10	1	<10	55
I028163		20	<0.01	<10	10	1	<10	64
I028164		20	<0.01	<10	10	2	<10	17
I028165		20	<0.01	<10	10	2	<10	34
I028166		20	<0.01	<10	<10	2	<10	24
I028167		20	<0.01	<10	10	1	<10	18
I028168		20	<0.01	<10	10	1	<10	24
I028169		20	<0.01	<10	<10	2	<10	13
I028170		<20	<0.01	<10	<10	<1	<10	3
I028171		20	<0.01	<10	10	1	<10	11
I028172		20	<0.01	<10	<10	1	<10	10
I028173		20	<0.01	<10	<10	1	<10	10
I028174		20	<0.01	<10	10	2	<10	12
I028175		20	<0.01	<10	10	2	<10	15
I028176		20	<0.01	<10	10	2	<10	11
I028177		20	<0.01	<10	10	1	<10	10
I028178		20	<0.01	<10	10	2	<10	9
I028179		20	<0.01	<10	10	1	<10	8
I028180		<20	0.14	<10	<10	60	10	56
I028181		20	<0.01	<10	10	1	<10	11
I028182		20	<0.01	<10	<10	1	<10	8
I028183		20	<0.01	<10	10	1	<10	5
I028184		20	<0.01	<10	10	1	<10	6
I028185		20	<0.01	<10	10	1	<10	11
I028186		20	<0.01	<10	10	<1	<10	10
I028187		20	<0.01	<10	10	1	<10	7
I028188		20	<0.01	<10	10	1	<10	9
I028189		20	<0.01	<10	20	1	<10	6
I028190		<20	<0.01	<10	<10	<1	<10	2
I028191		20	<0.01	<10	<10	1	<10	8
I028192		20	<0.01	<10	<10	1	<10	12
I028193		20	<0.01	<10	10	1	<10	6
I028194		20	<0.01	<10	<10	1	<10	7
I028195		20	<0.01	<10	<10	1	<10	7
I028196		20	<0.01	<10	10	1	<10	8
I028197		20	<0.01	<10	10	1	<10	9
I028198		20	<0.01	<10	<10	1	<10	8
I028199		20	<0.01	<10	10	1	<10	9
I028200		<20	0.10	<10	<10	47	30	55

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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I028201		5.75	0.005	<0.2	0.23	36	<10	50	<0.5	2	0.07	<0.5	<1	4	27	0.81
I028202		5.53	<0.005	0.2	0.30	21	<10	60	<0.5	3	0.16	<0.5	1	6	63	1.25
I028203		5.76	0.012	0.2	0.37	113	<10	50	<0.5	4	0.15	<0.5	3	2	94	1.31
I028204		5.09	<0.005	0.3	0.41	63	<10	50	<0.5	2	0.25	<0.5	2	3	92	1.33
I028205		6.12	0.023	0.3	0.28	155	<10	50	<0.5	4	0.55	<0.5	1	3	65	1.25
I028206		5.50	<0.005	0.2	0.33	12	<10	80	<0.5	2	0.32	<0.5	1	4	81	1.26
I028207		4.94	0.027	0.6	0.34	1815	<10	70	<0.5	11	0.27	<0.5	4	3	143	1.94
I028208		5.79	0.013	0.4	0.42	56	<10	60	<0.5	7	0.20	<0.5	2	3	135	1.96
I028209		5.71	<0.005	0.3	0.35	61	<10	40	<0.5	4	0.21	<0.5	2	3	108	1.65
I028210		0.37	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.08
I028211		5.69	<0.005	<0.2	0.27	13	<10	50	<0.5	3	0.32	<0.5	1	4	41	0.94
I028212		5.75	<0.005	0.2	0.30	28	<10	50	<0.5	4	0.23	<0.5	1	4	63	1.15
I028213		5.94	<0.005	0.4	0.31	33	<10	70	<0.5	4	0.36	<0.5	1	2	135	1.36
I028214		5.96	0.007	0.7	0.41	75	<10	100	<0.5	6	0.13	<0.5	2	2	209	2.38
I028215		5.61	0.005	0.3	0.32	41	<10	50	<0.5	4	0.21	<0.5	1	4	87	1.20
I028216		5.93	0.008	<0.2	0.34	981	<10	60	<0.5	2	0.15	<0.5	6	4	46	1.15
I028217		5.65	<0.005	<0.2	0.25	115	<10	50	<0.5	<2	0.16	<0.5	2	4	30	0.81
I028218		5.79	<0.005	<0.2	0.27	242	<10	60	<0.5	2	0.24	<0.5	2	5	32	0.89
I028219		5.66	<0.005	<0.2	0.23	61	<10	50	<0.5	2	0.27	<0.5	2	5	16	0.81
I028220		0.06	0.308	1.0	1.50	6	10	120	<0.5	2	0.92	<0.5	11	27	3150	3.03
I028221		5.81	<0.005	<0.2	0.26	12	<10	80	<0.5	<2	0.53	<0.5	1	8	13	0.89
I028222		5.93	<0.005	0.2	0.27	11	<10	80	<0.5	<2	0.30	<0.5	1	5	48	1.06
I028223		5.83	0.007	<0.2	0.26	86	<10	80	<0.5	<2	0.35	<0.5	1	5	32	0.96
I028224		6.04	<0.005	<0.2	0.22	8	<10	50	<0.5	<2	0.39	<0.5	1	5	29	0.84
I028225		5.83	0.006	0.2	0.24	391	<10	60	<0.5	4	0.54	<0.5	1	6	6	0.84
I028226		5.22	<0.005	<0.2	0.30	387	<10	60	<0.5	3	0.29	<0.5	1	4	13	0.93
I028227		5.71	<0.005	0.3	0.24	8	<10	100	<0.5	5	0.31	<0.5	1	5	34	0.92
I028228		5.67	<0.005	0.2	0.25	9	<10	70	<0.5	<2	0.35	<0.5	2	5	59	1.23
I028229		5.31	<0.005	0.2	0.21	205	<10	60	<0.5	6	0.35	<0.5	2	5	55	0.96
I028230		0.30	<0.005	<0.2	0.01	<2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	1	0.07
I028231		5.62	0.006	0.2	0.26	1110	<10	50	<0.5	2	0.29	<0.5	2	5	63	0.98
I028232		6.73	0.013	0.3	0.27	1120	<10	50	<0.5	14	1.43	<0.5	5	4	117	1.29
I028233		5.61	0.006	0.2	0.33	862	<10	50	<0.5	2	0.84	<0.5	2	5	62	1.15
I028234		5.70	<0.005	0.3	0.25	17	<10	150	<0.5	6	0.37	<0.5	3	7	57	1.10
I028235		5.85	0.011	0.3	0.35	932	<10	70	<0.5	3	0.42	<0.5	3	5	61	1.17
I028236		5.57	<0.005	0.2	0.33	27	<10	50	<0.5	2	0.51	<0.5	1	4	59	1.05
I028237		5.55	0.025	0.3	0.35	352	<10	50	<0.5	3	0.34	<0.5	3	5	70	1.10
I028238		5.40	0.006	0.3	0.45	36	<10	50	<0.5	<2	0.54	<0.5	5	5	90	1.14
I028239		5.43	<0.005	0.3	0.41	395	<10	50	<0.5	4	0.22	<0.5	3	3	86	1.35
I028240		0.06	0.254	1.0	1.54	7	<10	120	<0.5	2	0.91	0.5	12	29	3170	3.07

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I028201		<10	1	0.16	10	0.03	59	7	0.04	1	60	4	0.52	<2	<1	6
I028202		<10	1	0.19	10	0.04	74	6	0.04	1	60	5	0.75	<2	<1	8
I028203		<10	1	0.20	10	0.07	94	9	0.01	1	80	3	0.78	<2	<1	8
I028204		<10	1	0.19	10	0.10	84	12	0.01	1	70	4	0.82	<2	<1	10
I028205		<10	<1	0.16	10	0.06	82	9	0.02	1	70	4	0.87	<2	<1	16
I028206		<10	1	0.18	10	0.05	76	14	0.04	1	80	3	0.72	<2	<1	11
I028207		<10	1	0.19	10	0.10	54	5	0.01	1	80	10	1.37	<2	<1	11
I028208		<10	1	0.25	10	0.09	59	2	0.01	1	90	8	1.35	<2	<1	9
I028209		<10	<1	0.19	10	0.08	61	<1	0.01	1	80	4	1.15	<2	<1	9
I028210		<10	<1	<0.01	<10	1.60	125	<1	0.01	<1	70	<2	0.02	<2	<1	81
I028211		<10	1	0.15	10	0.09	104	<1	0.04	1	80	2	0.52	<2	<1	11
I028212		<10	1	0.17	10	0.06	68	<1	0.04	1	70	4	0.63	<2	<1	10
I028213		<10	1	0.22	10	0.06	55	1	0.02	<1	80	6	0.88	<2	<1	16
I028214		<10	<1	0.33	10	0.08	70	1	0.01	1	90	9	1.69	<2	<1	8
I028215		<10	<1	0.19	10	0.06	68	2	0.02	1	80	4	0.73	<2	<1	9
I028216		<10	1	0.18	10	0.07	133	3	0.05	1	110	5	0.60	<2	<1	8
I028217		<10	1	0.15	10	0.04	91	10	0.05	1	80	4	0.38	<2	<1	8
I028218		<10	1	0.17	20	0.05	116	7	0.06	1	80	5	0.35	<2	<1	11
I028219		<10	<1	0.15	10	0.05	211	5	0.06	1	70	7	0.26	<2	1	11
I028220		<10	1	0.19	<10	0.71	442	225	0.09	23	630	8	0.46	2	5	44
I028221		<10	<1	0.17	20	0.05	222	1	0.06	2	80	6	0.24	<2	1	17
I028222		<10	<1	0.17	10	0.07	115	1	0.05	1	80	5	0.47	<2	<1	13
I028223		<10	<1	0.17	20	0.05	140	1	0.05	1	80	5	0.44	<2	<1	13
I028224		<10	<1	0.15	20	0.05	162	1	0.05	1	70	5	0.34	<2	<1	14
I028225		<10	<1	0.17	20	0.05	239	1	0.06	1	70	10	0.24	3	1	18
I028226		<10	<1	0.19	20	0.04	133	1	0.06	1	80	7	0.43	2	<1	12
I028227		<10	<1	0.17	20	0.05	97	2	0.05	1	70	7	0.46	<2	<1	13
I028228		<10	<1	0.17	20	0.06	93	1	0.06	1	60	3	0.70	2	<1	18
I028229		<10	<1	0.14	20	0.04	77	1	0.05	<1	60	4	0.54	2	<1	16
I028230		<10	<1	0.01	<10	0.80	119	<1	0.01	<1	70	<2	0.01	3	<1	81
I028231		<10	<1	0.15	20	0.05	94	1	0.05	1	70	5	0.48	2	<1	14
I028232		<10	<1	0.13	10	0.09	156	2	0.03	<1	70	5	0.91	2	<1	33
I028233		<10	<1	0.17	10	0.11	196	2	0.05	1	60	4	0.72	<2	1	26
I028234		<10	<1	0.16	20	0.07	99	2	0.06	1	70	6	0.61	<2	<1	22
I028235		<10	<1	0.20	20	0.06	100	4	0.05	1	70	6	0.59	2	<1	17
I028236		<10	<1	0.17	20	0.08	87	4	0.03	1	70	6	0.66	2	<1	20
I028237		<10	<1	0.15	20	0.12	91	4	0.03	1	70	5	0.61	3	<1	22
I028238		<10	1	0.15	20	0.18	247	9	0.02	<1	70	5	0.46	4	<1	18
I028239		<10	<1	0.15	10	0.08	136	20	0.01	1	80	7	0.75	5	<1	10
I028240		<10	<1	0.20	10	0.73	463	234	0.09	23	680	6	0.47	4	5	45

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I028201		20	<0.01	<10	10	1	<10	7
I028202		20	<0.01	<10	10	1	<10	9
I028203		20	<0.01	<10	10	<1	<10	18
I028204		20	<0.01	<10	<10	<1	<10	12
I028205		20	<0.01	<10	10	1	<10	10
I028206		20	<0.01	<10	10	1	<10	9
I028207		20	<0.01	<10	10	<1	<10	11
I028208		20	<0.01	<10	10	1	<10	11
I028209		20	<0.01	<10	10	1	<10	8
I028210		<20	<0.01	<10	<10	<1	<10	2
I028211		20	<0.01	<10	<10	1	<10	3
I028212		20	<0.01	<10	10	1	<10	8
I028213		20	<0.01	<10	10	<1	<10	12
I028214		20	<0.01	<10	10	1	<10	24
I028215		20	<0.01	<10	10	<1	<10	7
I028216		20	<0.01	<10	<10	1	<10	9
I028217		20	<0.01	<10	10	1	<10	7
I028218		20	<0.01	<10	10	1	<10	6
I028219		20	<0.01	<10	10	1	<10	14
I028220		<20	0.13	<10	<10	59	10	57
I028221		20	<0.01	<10	<10	2	<10	11
I028222		20	<0.01	<10	10	1	<10	8
I028223		20	<0.01	<10	10	1	<10	6
I028224		20	<0.01	<10	10	1	<10	11
I028225		20	<0.01	<10	<10	1	<10	11
I028226		20	<0.01	<10	10	1	<10	5
I028227		20	<0.01	<10	10	1	<10	5
I028228		20	<0.01	<10	10	1	<10	6
I028229		20	<0.01	<10	10	<1	<10	5
I028230		<20	<0.01	<10	<10	<1	<10	2
I028231		20	<0.01	<10	10	1	<10	6
I028232		20	<0.01	<10	10	<1	<10	9
I028233		20	<0.01	<10	10	1	<10	8
I028234		20	<0.01	<10	10	1	<10	8
I028235		20	<0.01	<10	10	1	<10	6
I028236		20	<0.01	<10	10	1	<10	8
I028237		20	<0.01	<10	10	1	<10	10
I028238		20	<0.01	<10	10	1	<10	5
I028239		20	<0.01	<10	10	1	<10	5
I028240		<20	0.14	<10	<10	61	10	59

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I028241		5.20	0.006	0.2	0.38	165	<10	40	<0.5	2	0.14	<0.5	3	3	60	1.30
I028242		5.14	0.006	0.2	0.43	235	<10	60	<0.5	6	0.06	<0.5	3	4	75	1.29
I028243		5.61	0.015	0.6	0.38	660	<10	50	<0.5	16	0.24	<0.5	3	3	144	2.07
I028244		2.42	0.012	0.3	0.60	664	<10	100	<0.5	3	0.09	<0.5	3	2	140	1.99
I028245		4.31	0.007	0.2	0.42	69	<10	70	<0.5	2	0.19	<0.5	3	2	109	1.96
I028246		4.22	0.014	<0.2	0.49	1040	<10	200	0.5	<2	0.56	<0.5	4	4	59	1.80
I028247		6.00	0.012	0.2	0.36	965	<10	90	<0.5	4	0.72	<0.5	4	5	92	1.77
I028248		6.22	0.290	0.5	0.40	580	<10	80	<0.5	6	0.83	<0.5	5	4	221	2.09
I028249		6.10	0.011	0.2	0.48	252	<10	80	<0.5	3	0.69	<0.5	4	4	85	1.69
I028250		0.46	0.006	<0.2	0.02	2	<10	10	<0.5	3	>25.0	<0.5	<1	1	2	0.31
I028251		5.96	0.415	<0.2	0.46	6	<10	80	<0.5	2	0.63	<0.5	3	4	76	1.47
I028252		5.60	0.026	0.7	0.49	271	<10	110	0.5	3	1.10	<0.5	5	7	319	1.87
I028253		6.06	0.063	0.6	0.52	84	<10	100	0.5	3	0.99	<0.5	4	5	253	1.74
I028254		6.99	0.384	1.3	0.55	20	<10	80	<0.5	16	1.04	<0.5	4	5	564	1.60
I028255		5.58	0.024	0.6	0.53	5	<10	70	<0.5	2	1.01	<0.5	5	5	265	1.61
I028256		6.27	0.008	0.2	0.70	235	<10	110	0.6	2	0.83	<0.5	4	6	78	1.91
I028257		6.25	1.305	0.6	0.58	46	<10	90	<0.5	14	0.72	<0.5	3	6	265	1.45
I028258		5.85	0.696	0.4	0.70	27	<10	70	<0.5	10	0.93	<0.5	4	8	221	1.68
I028259		6.14	0.523	0.2	0.58	33	<10	70	<0.5	10	0.62	<0.5	4	6	123	1.52
I028260		0.06	0.767	3.0	1.23	14	<10	120	<0.5	2	0.79	<0.5	11	48	8120	2.58
I028261		6.13	1.065	0.3	0.58	138	<10	90	<0.5	14	0.76	<0.5	4	7	114	1.51
I028262		4.43	2.09	0.3	0.55	22	<10	110	<0.5	14	0.82	<0.5	4	7	121	1.56
I028263		7.31	0.020	<0.2	0.42	36	<10	100	<0.5	<2	0.03	<0.5	1	3	21	0.74
I028264		8.42	0.016	<0.2	0.33	43	<10	110	<0.5	<2	0.02	<0.5	<1	5	17	0.81
I028265		8.77	0.022	<0.2	0.41	164	<10	130	<0.5	2	0.02	<0.5	1	4	22	0.74
I028266		8.77	0.015	0.2	0.41	598	<10	90	<0.5	2	0.01	<0.5	1	2	17	0.61
I028267		7.51	0.029	<0.2	0.43	1045	<10	100	<0.5	3	0.01	<0.5	1	3	22	0.82
I028268		3.32	0.015	0.2	0.36	165	<10	110	<0.5	<2	0.02	<0.5	1	4	14	0.79
I028269		5.75	0.019	<0.2	0.32	58	<10	110	<0.5	<2	0.01	<0.5	1	5	13	0.80
I028270		0.66	<0.005	<0.2	0.02	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1	2	0.12
I028271		5.09	0.018	0.6	0.26	30	<10	100	<0.5	5	0.03	<0.5	1	5	18	0.79
I028272		2.77	0.011	<0.2	0.26	13	<10	100	<0.5	<2	0.06	<0.5	1	4	12	0.90
I028273		2.45	0.008	0.2	0.36	62	<10	230	0.6	2	0.02	<0.5	1	4	50	1.86
I028274		3.70	0.021	0.2	0.34	22	<10	210	0.5	2	0.07	<0.5	2	4	68	2.34
I028275		5.01	0.037	<0.2	0.26	8	<10	110	<0.5	<2	0.02	<0.5	1	6	28	1.24
I028276		4.08	0.007	<0.2	0.30	217	<10	110	<0.5	3	0.01	<0.5	1	5	15	0.96
I028277		5.26	0.005	<0.2	0.31	29	<10	120	<0.5	2	0.01	<0.5	1	6	18	0.88
I028278		5.13	0.067	<0.2	0.40	416	<10	120	<0.5	5	0.01	<0.5	1	4	17	1.01
I028279		5.45	0.015	<0.2	0.39	89	<10	100	<0.5	3	0.01	<0.5	<1	5	15	0.75
I028280		0.06	0.299	0.9	1.58	7	<10	130	<0.5	<2	0.94	0.6	11	29	3090	3.10

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I028241		<10	<1	0.12	10	0.06	165	20	0.01	1	70	4	0.68	3	<1	7
I028242		<10	<1	0.19	20	0.04	147	18	0.01	1	60	4	0.64	2	<1	6
I028243		<10	<1	0.19	10	0.09	187	8	0.01	<1	60	9	1.66	9	<1	8
I028244		<10	<1	0.23	20	0.06	127	18	0.01	1	100	6	1.24	4	<1	9
I028245		<10	<1	0.18	20	0.09	153	4	0.02	1	140	5	1.24	3	<1	16
I028246		<10	<1	0.16	30	0.23	190	<1	0.03	2	420	3	0.64	6	1	48
I028247		<10	<1	0.17	30	0.22	165	<1	0.05	3	380	5	0.62	5	1	40
I028248		<10	1	0.21	20	0.25	156	<1	0.04	2	400	4	0.98	4	1	51
I028249		<10	<1	0.18	30	0.24	139	<1	0.05	2	420	5	0.58	3	1	36
I028250		<10	<1	0.01	<10	0.75	99	<1	0.02	<1	90	<2	0.24	<2	<1	85
I028251		<10	<1	0.16	30	0.23	119	<1	0.04	3	370	4	0.46	<2	1	30
I028252		<10	<1	0.20	30	0.22	161	<1	0.06	2	380	4	0.70	2	1	50
I028253		<10	<1	0.17	30	0.31	145	<1	0.05	2	370	6	0.58	2	1	65
I028254		<10	<1	0.18	30	0.25	139	<1	0.04	2	380	8	0.64	3	1	39
I028255		<10	<1	0.19	30	0.25	148	<1	0.05	2	330	4	0.62	2	1	34
I028256		<10	<1	0.22	40	0.31	165	<1	0.06	2	420	4	0.59	2	2	54
I028257		<10	<1	0.17	40	0.28	125	<1	0.05	2	370	7	0.40	<2	1	33
I028258		<10	<1	0.18	30	0.38	150	<1	0.06	3	450	6	0.47	<2	2	44
I028259		<10	<1	0.14	30	0.31	120	<1	0.05	3	370	4	0.49	3	1	32
I028260		<10	<1	0.10	<10	0.56	410	364	0.09	34	540	7	0.63	3	4	40
I028261		<10	1	0.16	40	0.29	140	1	0.06	2	350	6	0.43	<2	1	39
I028262		<10	<1	0.15	40	0.27	137	<1	0.05	2	340	4	0.50	<2	1	44
I028263		<10	<1	0.23	20	0.01	25	<1	0.04	1	40	5	0.22	<2	<1	7
I028264		<10	<1	0.22	20	0.01	24	1	0.06	1	60	10	0.25	2	<1	7
I028265		<10	<1	0.25	20	0.01	24	1	0.02	<1	40	12	0.24	2	<1	7
I028266		<10	<1	0.25	20	0.01	17	1	0.02	1	30	7	0.19	3	<1	7
I028267		<10	1	0.30	20	0.01	26	1	0.02	<1	30	8	0.25	2	1	7
I028268		<10	<1	0.26	20	0.01	23	1	0.05	1	40	10	0.29	2	<1	8
I028269		<10	<1	0.24	20	0.01	34	1	0.06	1	40	7	0.23	<2	<1	8
I028270		<10	1	0.01	<10	1.16	139	<1	0.02	<1	80	<2	0.01	<2	<1	87
I028271		<10	<1	0.24	20	0.01	24	1	0.06	<1	60	34	0.26	<2	<1	6
I028272		<10	<1	0.23	20	0.01	29	1	0.07	<1	60	4	0.24	<2	<1	8
I028273		<10	<1	0.28	20	0.01	27	1	0.07	1	330	4	0.38	<2	1	17
I028274		<10	<1	0.32	20	0.01	95	<1	0.08	1	310	5	0.47	<2	1	20
I028275		<10	<1	0.24	20	0.01	43	1	0.07	1	90	4	0.26	<2	<1	8
I028276		<10	<1	0.25	20	0.01	29	1	0.06	<1	60	6	0.26	<2	<1	9
I028277		<10	<1	0.26	20	0.01	25	1	0.07	<1	70	5	0.27	<2	<1	8
I028278		<10	<1	0.29	20	0.01	24	1	0.06	1	80	3	0.35	<2	<1	7
I028279		<10	<1	0.26	20	0.01	29	2	0.07	1	60	4	0.28	<2	<1	7
I028280		10	<1	0.20	10	0.75	463	242	0.10	25	690	10	0.46	3	5	48

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I028241		20	<0.01	<10	<10	1	<10	6
I028242		20	<0.01	<10	<10	1	<10	14
I028243		20	<0.01	<10	10	2	<10	20
I028244		20	<0.01	<10	<10	2	<10	8
I028245		20	<0.01	<10	<10	2	<10	13
I028246		20	<0.01	<10	<10	7	<10	7
I028247		20	<0.01	<10	<10	8	<10	14
I028248		20	<0.01	<10	<10	6	<10	15
I028249		20	<0.01	<10	<10	9	<10	6
I028250		<20	<0.01	<10	<10	<1	<10	18
I028251		20	<0.01	<10	<10	8	<10	6
I028252		20	<0.01	<10	10	7	<10	16
I028253		20	<0.01	<10	<10	11	<10	15
I028254		20	<0.01	<10	<10	9	<10	26
I028255		20	<0.01	<10	<10	7	<10	15
I028256		20	<0.01	<10	<10	12	<10	8
I028257		20	<0.01	<10	<10	11	<10	16
I028258		20	<0.01	<10	<10	15	<10	14
I028259		20	<0.01	<10	<10	13	<10	9
I028260		<20	0.11	<10	<10	51	30	57
I028261		20	<0.01	<10	10	12	<10	10
I028262		20	<0.01	<10	<10	11	<10	10
I028263		<20	<0.01	<10	<10	<1	<10	<2
I028264		30	<0.01	<10	<10	1	<10	4
I028265		20	<0.01	<10	<10	<1	<10	<2
I028266		<20	<0.01	<10	<10	<1	<10	2
I028267		<20	<0.01	<10	<10	<1	<10	3
I028268		20	<0.01	<10	<10	<1	<10	2
I028269		20	<0.01	<10	<10	<1	<10	2
I028270		<20	<0.01	<10	<10	<1	<10	2
I028271		20	<0.01	<10	<10	<1	<10	2
I028272		20	<0.01	<10	<10	<1	<10	3
I028273		20	<0.01	<10	10	4	<10	11
I028274		20	<0.01	<10	<10	3	<10	31
I028275		20	<0.01	<10	<10	1	<10	9
I028276		20	<0.01	<10	<10	1	<10	3
I028277		20	<0.01	<10	<10	<1	<10	<2
I028278		30	<0.01	<10	10	<1	<10	2
I028279		20	<0.01	<10	<10	<1	<10	<2
I028280		<20	0.14	<10	<10	63	10	57

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I028281		5.14	0.014	<0.2	0.38	107	<10	90	<0.5	2	0.01	<0.5	<1	4	13	0.56
I028282		5.33	0.011	<0.2	0.52	25	<10	100	<0.5	<2	0.01	<0.5	<1	4	13	0.72
W639601		5.22	0.025	<0.2	0.51	21	<10	180	0.8	<2	1.19	<0.5	7	17	135	2.65
W639602		5.73	0.018	<0.2	0.85	14	<10	30	1.0	<2	1.24	<0.5	7	88	120	2.22
W639603		6.51	0.044	<0.2	0.49	1375	<10	90	0.8	6	0.67	<0.5	10	8	95	2.36
W639604		7.47	0.045	0.3	0.65	68	<10	190	1.4	6	0.53	<0.5	17	27	210	3.76
W639605		6.93	0.052	0.3	0.56	3120	<10	100	0.8	7	0.67	<0.5	32	9	240	2.28
W639606		7.20	0.029	0.2	0.60	19	<10	60	0.8	3	0.87	<0.5	6	15	143	1.88
W639607		7.02	0.048	0.3	0.47	59	<10	120	0.7	2	1.10	<0.5	6	7	236	1.96
W639608		6.67	0.008	<0.2	0.74	26	<10	40	1.0	<2	0.77	<0.5	11	14	33	2.41
W639609		6.12	0.070	<0.2	0.57	791	<10	70	0.8	<2	1.85	<0.5	6	8	107	1.88
W639610		0.47	<0.005	<0.2	0.03	<2	<10	20	<0.5	5	>25.0	<0.5	<1	1	1	0.12
W639611		6.94	0.138	<0.2	0.50	333	<10	60	0.7	2	1.60	<0.5	5	5	61	1.54
W639612		7.04	0.017	<0.2	0.45	15	<10	710	0.6	<2	1.51	<0.5	3	4	51	1.25
W639613		6.96	0.027	0.2	0.71	20	<10	50	1.0	<2	1.35	<0.5	11	18	243	3.19
W639614		5.90	0.034	0.3	0.57	33	<10	140	0.8	2	1.20	<0.5	12	18	338	2.90
W639615		5.54	0.113	<0.2	0.43	38	<10	400	0.7	<2	1.35	<0.5	6	8	85	1.62
W639616		4.33	0.116	0.5	0.36	246	<10	10	0.7	8	2.08	<0.5	6	5	387	2.30
W639617		4.07	0.083	<0.2	0.32	57	<10	410	0.5	2	4.75	<0.5	2	6	85	1.13
W639618		3.04	0.059	0.7	0.58	101	<10	100	<0.5	2	0.09	<0.5	1	5	121	1.77
W639619		7.10	0.021	0.6	0.60	123	<10	80	<0.5	2	0.09	<0.5	1	4	146	1.75
W639620		0.06	0.281	1.0	1.49	6	<10	120	<0.5	<2	0.92	0.6	11	28	3130	2.99
W639621		7.54	0.030	0.4	0.52	99	<10	80	<0.5	<2	0.07	<0.5	1	3	124	1.74
W639622		6.69	0.009	0.3	0.41	101	<10	100	0.5	<2	0.07	<0.5	1	3	140	1.96
W639623		7.01	0.034	<0.2	0.39	79	<10	90	<0.5	<2	0.06	<0.5	1	2	105	1.49
W639624		7.28	0.011	0.2	0.61	91	<10	90	<0.5	<2	0.07	<0.5	1	7	244	2.40
W639625		7.45	0.039	0.4	1.49	105	<10	80	0.8	2	0.12	<0.5	2	43	430	4.28
W639626		8.16	0.019	0.4	0.69	91	<10	90	0.6	<2	0.05	<0.5	3	12	363	2.29
W639627		8.21	0.060	0.7	0.78	106	<10	120	0.7	3	0.13	<0.5	1	6	387	2.45
W639628		6.32	0.032	0.8	0.60	77	<10	70	0.6	2	0.15	<0.5	1	4	344	2.36
W639629		7.17	0.065	0.9	0.51	83	<10	100	1.0	2	0.08	<0.5	1	6	483	5.15
W639630		0.47	0.006	<0.2	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	6	0.11
W639631		7.61	0.099	0.2	0.59	82	<10	50	0.5	3	0.06	<0.5	1	24	332	2.53
W639632		6.42	0.191	0.2	0.77	118	<10	50	0.5	3	0.06	<0.5	1	24	321	1.97
W639633		9.55	0.159	0.2	0.72	64	<10	80	0.6	2	0.07	<0.5	2	18	327	2.43
W639634		9.52	0.117	0.2	0.43	32	<10	100	<0.5	2	0.03	<0.5	1	12	126	2.02
W639635		6.73	0.064	0.4	0.39	52	<10	160	<0.5	<2	0.03	<0.5	1	7	111	1.91
W639636		7.83	0.052	<0.2	0.75	89	<10	170	<0.5	<2	0.03	<0.5	1	15	220	2.04
W639637		6.73	0.031	<0.2	0.70	32	<10	160	<0.5	2	0.04	<0.5	1	15	224	1.76
W639638		8.40	0.032	<0.2	0.83	21	<10	50	<0.5	<2	0.03	<0.5	2	16	279	1.07

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I028281		<10	<1	0.21	20	0.01	23	2	0.04	1	40	7	0.21	2	<1	6
I028282		<10	<1	0.27	20	0.01	25	1	0.04	1	50	5	0.27	<2	<1	5
W639601		<10	<1	0.12	30	0.52	158	1	0.01	19	350	4	1.03	3	4	80
W639602		<10	<1	0.22	20	0.75	136	2	0.02	35	350	2	0.53	3	5	94
W639603		<10	<1	0.26	20	0.40	117	<1	0.02	24	230	2	1.11	3	2	46
W639604		<10	<1	0.35	30	0.67	214	1	0.01	52	380	3	0.99	3	7	62
W639605		<10	<1	0.27	20	0.42	98	1	0.01	20	300	3	0.69	3	2	53
W639606		<10	<1	0.29	20	0.49	96	1	0.02	18	300	2	0.48	3	3	72
W639607		<10	<1	0.21	10	0.49	103	1	0.01	13	150	5	0.90	3	2	66
W639608		<10	1	0.32	30	0.53	169	<1	0.01	23	290	2	0.24	3	4	48
W639609		<10	<1	0.22	20	0.63	117	1	0.02	13	210	4	0.32	2	2	91
W639610		<10	1	0.01	<10	1.12	109	<1	0.01	<1	70	<2	<0.01	<2	<1	88
W639611		<10	1	0.17	10	0.52	87	<1	<0.01	8	130	5	0.36	4	1	90
W639612		<10	<1	0.14	10	0.56	82	1	<0.01	6	160	5	0.32	4	1	128
W639613		<10	<1	0.27	20	0.69	102	<1	<0.01	24	710	4	1.27	6	7	80
W639614		<10	<1	0.17	10	0.56	97	1	<0.01	22	980	5	1.30	5	8	66
W639615		<10	1	0.17	10	0.36	127	<1	<0.01	17	130	4	0.51	11	3	50
W639616		<10	1	0.21	20	0.42	98	1	<0.01	17	220	10	1.78	43	2	64
W639617		<10	1	0.18	10	0.33	103	2	<0.01	9	160	3	0.53	15	2	307
W639618		<10	1	0.24	40	0.07	55	2	<0.01	3	650	44	0.09	3	2	24
W639619		<10	1	0.28	40	0.08	48	2	<0.01	2	660	60	0.08	5	2	28
W639620		10	<1	0.19	10	0.72	456	235	0.08	23	650	10	0.46	4	5	45
W639621		<10	<1	0.24	40	0.06	35	3	<0.01	2	660	26	0.08	4	2	22
W639622		<10	<1	0.24	40	0.04	37	2	<0.01	3	660	36	0.12	8	1	23
W639623		<10	1	0.24	40	0.03	26	2	<0.01	2	520	31	0.13	8	2	27
W639624		<10	<1	0.25	40	0.09	35	3	<0.01	3	690	41	0.10	4	2	32
W639625		10	<1	0.16	30	0.15	42	4	<0.01	6	800	78	0.07	13	5	40
W639626		<10	<1	0.22	50	0.13	60	3	<0.01	7	630	135	0.07	6	2	30
W639627		<10	<1	0.28	40	0.15	39	3	<0.01	4	850	103	0.19	7	2	64
W639628		<10	1	0.28	40	0.07	30	3	<0.01	4	690	97	0.28	17	2	96
W639629		<10	<1	0.28	30	0.04	38	4	<0.01	5	1150	330	0.24	7	2	38
W639630		<10	3	0.01	<10	0.76	125	<1	<0.01	<1	80	<2	0.01	3	<1	85
W639631		<10	<1	0.17	20	0.08	41	2	<0.01	3	350	29	0.11	<2	2	19
W639632		<10	1	0.18	20	0.13	38	2	<0.01	3	330	10	0.08	<2	2	9
W639633		<10	1	0.28	30	0.09	42	2	<0.01	3	410	15	0.36	3	2	25
W639634		<10	1	0.38	20	0.04	40	1	<0.01	3	180	19	0.45	2	1	18
W639635		<10	<1	0.41	30	0.03	32	1	0.01	3	210	25	0.57	<2	1	19
W639636		<10	1	0.48	40	0.09	30	1	0.01	4	260	18	0.67	<2	2	24
W639637		<10	<1	0.43	30	0.10	36	4	<0.01	4	230	14	0.57	2	2	21
W639638		<10	<1	0.29	20	0.16	46	1	<0.01	5	160	22	0.17	<2	2	10

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I028281		20	<0.01	<10	<10	1	<10	<2
I028282		20	<0.01	<10	<10	1	<10	<2
W639601		<20	<0.01	<10	<10	16	<10	17
W639602		<20	0.01	<10	<10	20	<10	18
W639603		<20	<0.01	<10	<10	8	<10	10
W639604		<20	<0.01	<10	<10	18	<10	13
W639605		<20	<0.01	<10	<10	9	<10	11
W639606		<20	0.01	<10	<10	12	<10	9
W639607		<20	<0.01	<10	<10	5	<10	9
W639608		<20	0.01	<10	<10	16	<10	9
W639609		<20	<0.01	<10	<10	8	<10	9
W639610		<20	<0.01	<10	<10	<1	<10	2
W639611		<20	<0.01	<10	<10	4	<10	8
W639612		<20	<0.01	<10	<10	4	<10	5
W639613		<20	0.01	<10	<10	30	<10	12
W639614		<20	<0.01	<10	<10	30	<10	14
W639615		<20	<0.01	<10	<10	8	<10	8
W639616		<20	<0.01	<10	<10	5	<10	21
W639617		<20	<0.01	<10	<10	4	<10	8
W639618		<20	<0.01	<10	<10	17	<10	12
W639619		<20	<0.01	<10	<10	18	<10	14
W639620		<20	0.14	<10	<10	61	10	55
W639621		<20	<0.01	<10	<10	14	<10	12
W639622		<20	<0.01	<10	<10	9	<10	16
W639623		<20	<0.01	<10	<10	7	<10	16
W639624		<20	<0.01	<10	<10	17	<10	18
W639625		<20	0.01	<10	10	55	10	45
W639626		<20	<0.01	<10	<10	19	<10	35
W639627		<20	<0.01	<10	10	21	<10	30
W639628		<20	<0.01	<10	<10	15	<10	31
W639629		<20	<0.01	<10	10	20	<10	84
W639630		<20	<0.01	<10	<10	<1	<10	<2
W639631		<20	<0.01	<10	<10	22	<10	25
W639632		<20	<0.01	<10	<10	19	<10	17
W639633		<20	<0.01	<10	10	19	<10	19
W639634		<20	<0.01	<10	<10	8	<10	15
W639635		<20	<0.01	<10	<10	6	<10	8
W639636		<20	<0.01	<10	<10	13	<10	11
W639637		<20	<0.01	<10	<10	12	<10	8
W639638		<20	<0.01	<10	<10	12	<10	12

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639639		8.94	0.058	<0.2	0.85	31	<10	40	<0.5	<2	0.05	<0.5	2	15	320	0.99
W639640		0.08	0.263	1.0	1.49	7	<10	120	<0.5	<2	0.89	0.5	11	28	3100	2.99
W639641		8.53	0.020	0.2	0.94	31	<10	40	<0.5	<2	0.03	<0.5	2	11	313	0.83
W639642		8.99	0.060	0.2	1.00	35	<10	190	<0.5	<2	0.03	<0.5	2	17	313	1.16
W639643		6.74	0.058	<0.2	1.18	94	<10	70	<0.5	<2	0.04	<0.5	2	17	287	1.20
W639644		7.10	0.013	<0.2	0.97	66	<10	70	<0.5	<2	0.04	<0.5	1	14	218	0.78
W639645		9.35	0.012	<0.2	0.75	50	<10	50	<0.5	<2	0.01	<0.5	1	2	185	0.43
W639646		8.78	0.015	0.2	0.71	82	<10	70	<0.5	<2	0.02	<0.5	<1	2	139	0.68
W639647		9.60	0.007	0.4	0.45	21	<10	90	<0.5	3	0.01	<0.5	<1	2	55	0.57
W639648		9.39	0.027	0.3	0.46	30	<10	90	<0.5	2	0.01	<0.5	<1	3	48	0.69
W639649		9.80	0.033	0.7	0.46	25	<10	110	<0.5	2	0.01	<0.5	<1	2	42	0.81
W639650		0.55	0.006	<0.2	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.09
W639651		9.36	0.020	0.3	0.49	111	<10	100	<0.5	2	0.03	<0.5	<1	2	35	0.63
W639652		9.37	0.017	0.2	0.56	53	<10	70	<0.5	<2	0.02	<0.5	<1	1	33	0.58
W639653		7.92	0.012	<0.2	0.61	45	<10	70	<0.5	<2	0.01	<0.5	<1	1	26	0.44
W639654		5.04	0.031	0.2	0.68	76	<10	80	<0.5	<2	0.04	<0.5	<1	2	45	0.64
W639655		5.51	0.014	0.2	0.49	62	<10	80	<0.5	<2	0.02	<0.5	<1	1	33	0.63
W639656		5.96	0.009	<0.2	0.58	14	<10	60	<0.5	<2	0.02	<0.5	<1	1	134	0.98
W639657		6.32	0.021	<0.2	0.59	90	<10	50	<0.5	<2	0.01	<0.5	<1	1	88	0.45
W639658		6.54	0.006	<0.2	0.54	40	<10	70	<0.5	<2	0.02	<0.5	<1	1	52	0.55
W639659		3.69	0.025	0.2	0.59	106	<10	120	<0.5	<2	0.03	<0.5	<1	2	118	1.29
W639660		0.06	0.321	1.0	1.48	6	<10	120	<0.5	<2	0.90	0.5	12	28	3140	2.99
W639661		2.88	0.038	<0.2	0.67	27	<10	90	<0.5	<2	0.03	<0.5	<1	1	97	0.70
W639662		4.18	0.028	<0.2	1.08	21	<10	500	0.5	<2	0.09	<0.5	2	3	548	1.56
W639663		5.22	0.016	0.2	1.15	23	<10	260	0.6	2	0.13	<0.5	5	4	1405	1.98
W639664		4.94	0.005	<0.2	1.67	13	<10	80	0.6	<2	0.18	<0.5	4	6	998	1.89
W639665		5.62	0.043	<0.2	1.61	28	<10	100	0.7	<2	0.20	<0.5	5	5	2160	1.74
W639666		5.17	0.029	<0.2	1.41	144	<10	50	0.7	<2	0.15	<0.5	6	5	1990	1.64
W639667		5.02	0.479	<0.2	1.54	27	<10	110	0.6	<2	0.19	0.5	6	6	587	2.04
W639668		5.66	0.023	<0.2	1.32	48	<10	50	0.6	2	0.20	<0.5	7	6	273	2.28
W639669		5.33	0.042	0.3	1.38	254	<10	100	0.6	<2	0.28	0.7	9	8	55	2.73
W639670		0.44	0.005	<0.2	0.04	3	<10	10	<0.5	2	>25.0	<0.5	<1	<1	6	0.15
W639671		7.20	0.007	<0.2	1.09	18	<10	120	0.6	2	0.54	<0.5	6	7	17	2.17
W639672		3.47	0.011	<0.2	0.97	11	<10	90	<0.5	<2	1.18	<0.5	6	7	24	2.14
W639673		3.91	0.008	<0.2	1.29	19	<10	120	0.8	<2	0.34	<0.5	11	6	14	2.22
W639674		4.36	0.010	<0.2	1.10	14	<10	60	0.8	<2	0.53	<0.5	9	5	18	2.20
W639675		5.21	0.175	<0.2	1.24	19	<10	60	1.2	<2	0.49	<0.5	9	4	33	2.10
W639676		5.75	0.017	<0.2	1.17	30	<10	50	0.8	<2	2.67	<0.5	6	4	28	1.90
W639677		5.13	0.005	<0.2	1.36	11	<10	230	0.5	<2	2.52	<0.5	5	4	28	1.79
W639678		3.02	0.005	0.2	1.15	26	<10	150	0.5	<2	1.78	<0.5	4	4	26	1.78

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
W639639		<10	<1	0.30	30	0.14	45	1	<0.01	4	150	14	0.20	<2	2	12
W639640		10	<1	0.19	10	0.71	453	236	0.08	23	650	9	0.45	2	5	45
W639641		<10	<1	0.31	20	0.14	60	1	<0.01	5	110	14	0.28	<2	1	8
W639642		<10	<1	0.36	20	0.17	70	1	<0.01	6	160	20	0.31	2	2	11
W639643		<10	1	0.37	20	0.23	105	6	<0.01	6	150	14	0.29	<2	2	7
W639644		<10	1	0.36	30	0.11	59	1	<0.01	4	120	21	0.23	<2	2	9
W639645		<10	1	0.19	20	0.02	40	2	<0.01	2	70	12	0.24	<2	1	6
W639646		<10	<1	0.24	20	0.01	27	2	<0.01	2	70	15	0.24	<2	1	6
W639647		<10	<1	0.29	20	0.01	15	13	0.01	<1	40	11	0.22	<2	<1	5
W639648		<10	<1	0.37	20	0.01	19	3	0.02	<1	40	12	0.24	<2	<1	5
W639649		<10	<1	0.40	20	0.01	16	2	0.02	<1	40	12	0.29	<2	<1	5
W639650		<10	1	0.01	<10	2.32	136	<1	0.01	<1	70	<2	<0.01	2	<1	75
W639651		<10	<1	0.31	20	0.01	14	1	0.02	<1	50	10	0.21	2	<1	6
W639652		<10	<1	0.24	20	0.04	14	1	0.01	<1	60	20	0.20	2	<1	9
W639653		<10	<1	0.21	20	0.01	12	<1	0.01	<1	50	27	0.15	<2	<1	6
W639654		<10	<1	0.30	20	0.01	22	1	0.01	<1	50	20	0.21	2	1	12
W639655		<10	<1	0.28	20	0.01	17	1	0.01	<1	50	11	0.20	<2	<1	8
W639656		<10	<1	0.16	20	0.01	15	4	0.01	<1	60	11	0.08	<2	1	4
W639657		<10	<1	0.16	20	0.01	21	8	0.01	<1	50	12	0.07	<2	1	4
W639658		<10	<1	0.18	20	0.01	39	8	0.01	<1	50	11	0.11	<2	<1	6
W639659		<10	<1	0.29	20	0.01	24	3	0.01	1	80	19	0.25	4	<1	8
W639660		<10	<1	0.19	10	0.71	459	238	0.10	22	640	7	0.45	3	5	45
W639661		<10	<1	0.20	30	0.01	19	32	0.01	<1	90	14	0.11	3	<1	8
W639662		<10	<1	0.18	30	0.09	58	3	0.01	2	430	14	0.18	5	1	13
W639663		<10	<1	0.24	20	0.16	59	<1	0.01	4	530	12	0.64	8	1	10
W639664		10	<1	0.17	40	0.45	172	<1	0.01	5	590	10	0.23	4	2	9
W639665		10	<1	0.16	40	0.44	143	<1	0.01	6	590	12	0.37	4	2	10
W639666		<10	<1	0.16	30	0.36	120	<1	0.01	6	560	18	0.46	4	2	8
W639667		<10	<1	0.16	40	0.47	251	<1	0.01	5	600	10	0.38	6	2	10
W639668		10	<1	0.16	40	0.49	264	3	0.01	5	560	10	0.60	7	2	11
W639669		<10	<1	0.21	20	0.51	328	16	0.02	4	520	34	0.97	4	2	15
W639670		<10	3	0.01	<10	1.33	148	<1	0.01	<1	80	<2	0.03	3	<1	88
W639671		<10	<1	0.18	20	0.52	294	2	0.06	4	500	6	0.39	4	2	24
W639672		<10	<1	0.16	20	0.53	285	<1	0.06	3	500	4	0.43	3	2	20
W639673		<10	<1	0.17	30	0.45	648	<1	0.03	4	520	7	0.23	2	3	17
W639674		<10	<1	0.18	30	0.48	468	<1	0.03	4	490	5	0.52	<2	2	21
W639675		<10	<1	0.17	30	0.44	483	<1	0.02	4	540	6	0.42	2	2	24
W639676		<10	<1	0.14	30	0.40	339	<1	0.01	3	490	6	0.50	3	2	58
W639677		<10	<1	0.17	30	0.44	255	<1	0.02	2	460	7	0.40	2	2	60
W639678		<10	<1	0.18	30	0.41	207	<1	0.03	2	430	6	0.45	2	2	49

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
W639639		<20	<0.01	<10	<10	10	<10	12
W639640		<20	0.14	<10	<10	61	10	55
W639641		<20	<0.01	<10	<10	8	<10	11
W639642		<20	<0.01	<10	<10	12	<10	11
W639643		<20	<0.01	<10	<10	12	<10	12
W639644		<20	<0.01	<10	10	10	<10	8
W639645		20	<0.01	<10	60	1	<10	5
W639646		30	<0.01	<10	<10	2	<10	3
W639647		<20	<0.01	<10	<10	<1	<10	2
W639648		<20	<0.01	<10	<10	1	<10	2
W639649		<20	<0.01	<10	<10	<1	<10	2
W639650		<20	<0.01	<10	<10	<1	<10	2
W639651		<20	<0.01	<10	<10	1	<10	<2
W639652		20	<0.01	<10	<10	1	<10	2
W639653		20	<0.01	<10	10	<1	<10	<2
W639654		20	<0.01	<10	20	1	<10	2
W639655		20	<0.01	<10	<10	1	<10	2
W639656		20	<0.01	<10	<10	1	<10	<2
W639657		20	<0.01	<10	<10	1	<10	<2
W639658		20	<0.01	<10	<10	1	<10	2
W639659		20	<0.01	<10	<10	1	<10	3
W639660		<20	0.13	<10	<10	60	10	56
W639661		20	<0.01	<10	<10	1	<10	3
W639662		20	<0.01	<10	10	9	<10	12
W639663		20	<0.01	<10	10	12	<10	15
W639664		20	<0.01	<10	10	20	<10	25
W639665		20	<0.01	<10	10	21	<10	27
W639666		20	<0.01	<10	10	21	<10	31
W639667		20	<0.01	<10	10	24	<10	25
W639668		20	<0.01	<10	10	23	<10	28
W639669		20	<0.01	<10	10	18	<10	73
W639670		<20	<0.01	<10	<10	<1	<10	<2
W639671		20	0.01	<10	10	22	<10	23
W639672		20	0.01	<10	<10	23	<10	32
W639673		20	0.01	<10	<10	21	<10	60
W639674		20	<0.01	<10	<10	16	<10	50
W639675		20	<0.01	<10	<10	18	<10	40
W639676		20	<0.01	<10	<10	17	<10	19
W639677		20	<0.01	<10	<10	18	<10	12
W639678		20	<0.01	<10	<10	16	<10	12

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
W639679		5.18	0.010	0.2	1.02	26	<10	190	0.5	<2	1.49	<0.5	5	5	66	2.62
W639680		0.06	0.304	0.9	1.47	4	<10	120	<0.5	<2	0.92	0.5	11	28	3180	2.97

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
W639679		<10	<1	0.23	20	0.39	197	<1	0.03	2	470	27	1.20	3	1	43
W639680		10	<1	0.19	10	0.71	465	236	0.09	22	640	9	0.45	3	5	44

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Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639679		<20	<0.01	<10	<10	14	<10	35
W639680		<20	0.14	<10	<10	60	10	55

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: FREEGOLD MOUNTAIN

CERTIFICATE OF ANALYSIS WH17186574

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	ME- ICP41

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 16- OCT- 2017
This copy reported on
1- DEC- 2017
Account: NOFREG

CERTIFICATE WH17191958

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- R1

This report is for 226 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- SEP- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 16- OCT- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
W639681		5.47	0.007	<0.2	0.95	14	<10	300	<0.5	<2	1.90	<0.5	4	6	41	2.16
W639682		6.04	0.007	<0.2	0.85	11	<10	130	<0.5	<2	2.39	<0.5	3	5	34	1.78
W639683		6.40	0.007	<0.2	0.94	78	<10	70	<0.5	<2	1.45	<0.5	3	6	24	1.78
W639684		9.98	0.006	<0.2	0.93	6	<10	110	<0.5	<2	0.87	<0.5	3	9	19	1.82
W639685		6.40	0.007	<0.2	0.79	7	<10	110	<0.5	<2	0.97	<0.5	3	6	44	1.97
W639686		6.70	0.006	<0.2	0.89	10	<10	80	<0.5	<2	1.00	<0.5	4	8	26	1.86
W639687		6.38	0.006	<0.2	0.87	7	<10	100	<0.5	<2	0.86	<0.5	4	12	12	1.71
W639688		6.66	0.006	<0.2	0.81	26	<10	100	<0.5	<2	1.01	<0.5	4	7	27	1.77
W639689		6.48	0.006	<0.2	0.90	46	<10	110	<0.5	<2	0.82	<0.5	4	7	18	1.85
W639690		0.44	0.006	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	8	0.10
W639691		6.60	0.018	<0.2	0.84	79	<10	80	<0.5	<2	0.92	<0.5	4	6	27	1.85
W639692		6.16	0.005	<0.2	0.82	177	<10	100	0.5	2	0.96	<0.5	5	6	59	2.51
W639693		6.78	0.005	<0.2	0.82	208	<10	90	<0.5	<2	1.75	<0.5	3	7	23	1.63
W639694		6.65	0.007	<0.2	0.52	103	<10	70	0.5	<2	1.21	<0.5	5	3	82	1.96
W639695		6.90	<0.005	<0.2	0.89	37	<10	100	<0.5	<2	1.12	<0.5	3	8	17	1.79
W639696		6.86	0.005	<0.2	0.86	209	<10	100	<0.5	<2	0.94	<0.5	5	7	55	1.96
W639697		6.06	0.006	<0.2	0.86	34	<10	100	<0.5	<2	0.91	<0.5	5	7	84	1.69
W639698		7.05	0.008	<0.2	0.93	127	<10	90	<0.5	<2	1.01	<0.5	5	8	48	2.00
W639699		6.55	<0.005	<0.2	0.97	14	<10	70	<0.5	<2	0.98	<0.5	5	13	20	1.95
W639700		0.06	0.289	0.8	1.53	6	10	120	<0.5	<2	0.93	<0.5	11	29	3190	3.04
W639701		6.83	<0.005	<0.2	0.92	5	<10	90	<0.5	<2	0.68	<0.5	5	8	14	1.82
W639702		5.79	<0.005	<0.2	1.01	9	<10	70	<0.5	<2	0.63	<0.5	4	7	18	1.76
W639703		6.63	<0.005	<0.2	1.12	7	<10	100	<0.5	<2	0.73	<0.5	5	7	19	1.91
W639704		7.35	0.010	<0.2	1.03	6	<10	80	<0.5	<2	0.90	<0.5	5	6	31	2.22
W639705		7.67	0.011	<0.2	0.86	59	<10	70	<0.5	<2	1.02	<0.5	4	7	34	2.10
W639706		6.13	0.010	<0.2	0.97	6	<10	110	<0.5	<2	0.84	<0.5	4	8	13	1.93
W639707		5.80	0.017	<0.2	0.87	468	<10	80	<0.5	<2	0.71	<0.5	5	6	63	2.49
W639708		6.17	<0.005	<0.2	0.95	15	<10	110	<0.5	2	0.61	<0.5	4	7	22	1.92
W639709		6.80	0.009	<0.2	0.80	169	<10	210	0.7	3	1.00	<0.5	7	4	76	2.60
W639710		0.14	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	4	0.14
W639711		6.24	0.016	<0.2	0.65	297	<10	120	0.6	3	1.28	<0.5	5	4	53	2.22
W639712		5.10	0.009	<0.2	0.80	22	<10	70	0.5	<2	0.85	<0.5	4	6	29	1.95
W639713		6.11	0.011	<0.2	0.94	10	<10	80	<0.5	<2	0.90	<0.5	4	7	17	1.89
W639714		6.46	0.008	<0.2	0.97	7	<10	70	<0.5	<2	0.87	<0.5	4	8	30	2.12
W639715		6.87	0.013	<0.2	0.87	10	<10	110	<0.5	12	0.85	<0.5	4	7	27	2.02
W639716		6.00	<0.005	<0.2	1.06	15	<10	120	0.6	<2	1.06	<0.5	5	7	24	2.04
W639717		5.02	0.012	<0.2	0.81	197	<10	50	0.7	<2	0.91	<0.5	5	4	40	2.06
W639718		2.88	0.007	<0.2	0.43	117	<10	40	0.6	4	1.52	<0.5	3	5	37	2.09
W639719		3.59	0.008	<0.2	0.83	30	<10	50	0.6	<2	0.53	<0.5	4	3	33	1.97
W639720		0.06	0.337	0.8	1.55	5	<10	120	<0.5	<2	0.93	<0.5	11	29	3180	3.06

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639681		<10	<1	0.17	30	0.45	201	<1	0.02	2	490	7	0.76	<2	1	57
W639682		<10	<1	0.19	20	0.36	194	<1	0.03	2	460	7	0.55	<2	1	59
W639683		<10	<1	0.15	30	0.45	214	<1	0.03	2	460	6	0.37	<2	2	41
W639684		<10	<1	0.16	20	0.48	303	<1	0.06	3	490	5	0.21	<2	2	37
W639685		<10	<1	0.20	20	0.36	162	<1	0.04	3	490	4	0.65	<2	1	34
W639686		<10	<1	0.17	30	0.44	209	<1	0.05	3	480	4	0.37	<2	2	34
W639687		<10	<1	0.14	30	0.44	241	<1	0.06	3	470	3	0.23	<2	2	31
W639688		<10	1	0.18	30	0.36	190	<1	0.05	2	470	5	0.47	<2	2	34
W639689		<10	<1	0.16	30	0.48	297	<1	0.05	3	500	5	0.28	<2	2	33
W639690		<10	<1	0.01	<10	1.90	132	<1	0.01	<1	90	2	0.02	<2	<1	74
W639691		<10	<1	0.16	30	0.42	216	<1	0.03	3	450	5	0.48	3	1	31
W639692		<10	<1	0.20	30	0.39	251	<1	0.04	3	460	9	0.93	4	2	40
W639693		<10	1	0.16	30	0.36	216	<1	0.03	2	430	6	0.34	5	2	59
W639694		<10	<1	0.24	20	0.14	175	<1	0.03	2	470	10	1.14	<2	1	48
W639695		<10	<1	0.16	30	0.43	230	<1	0.06	2	460	6	0.29	3	2	50
W639696		<10	<1	0.22	30	0.40	228	<1	0.04	3	490	5	0.52	3	2	38
W639697		<10	<1	0.24	30	0.36	221	<1	0.04	4	480	3	0.42	3	2	32
W639698		<10	<1	0.18	30	0.45	229	<1	0.06	3	480	5	0.43	<2	2	34
W639699		<10	<1	0.14	30	0.51	269	<1	0.06	3	560	4	0.27	<2	2	34
W639700		<10	1	0.20	10	0.75	454	269	0.09	23	650	9	0.46	5	5	46
W639701		<10	<1	0.13	30	0.49	285	1	0.07	2	490	5	0.18	<2	2	36
W639702		<10	<1	0.13	30	0.51	252	<1	0.04	4	500	7	0.28	<2	1	45
W639703		<10	<1	0.14	40	0.58	196	1	0.05	2	600	6	0.30	<2	2	46
W639704		10	1	0.16	30	0.57	163	6	0.06	1	700	4	0.57	4	3	37
W639705		<10	<1	0.17	30	0.42	282	<1	0.05	3	490	7	0.54	<2	2	45
W639706		<10	1	0.16	30	0.50	279	<1	0.08	2	500	6	0.22	2	3	43
W639707		<10	<1	0.20	30	0.42	207	<1	0.04	2	480	7	0.93	3	2	35
W639708		<10	<1	0.19	30	0.49	330	<1	0.04	3	500	6	0.29	2	2	39
W639709		<10	1	0.18	30	0.45	579	<1	0.01	3	520	12	0.85	3	2	49
W639710		<10	<1	0.01	<10	0.80	112	<1	0.01	<1	100	<2	<0.01	<2	<1	87
W639711		<10	1	0.20	30	0.39	676	<1	0.03	3	520	11	0.64	2	2	66
W639712		<10	<1	0.16	30	0.42	263	<1	0.04	2	530	8	0.39	4	2	55
W639713		<10	<1	0.17	30	0.49	223	<1	0.05	3	520	8	0.24	<2	2	48
W639714		<10	1	0.18	30	0.51	208	<1	0.05	2	530	6	0.46	4	2	52
W639715		<10	1	0.18	30	0.47	230	<1	0.05	3	510	4	0.41	4	2	46
W639716		<10	<1	0.20	30	0.53	261	<1	0.04	3	530	7	0.35	<2	2	60
W639717		<10	<1	0.17	30	0.41	288	<1	0.01	2	540	10	0.63	2	2	41
W639718		<10	<1	0.15	20	0.49	371	<1	0.01	2	320	8	0.63	5	1	28
W639719		<10	1	0.15	30	0.36	182	<1	0.01	3	520	9	0.52	2	2	31
W639720		<10	<1	0.20	10	0.75	456	269	0.10	24	640	9	0.46	5	5	47

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639681		<20	<0.01	<10	<10	17	<10	13
W639682		20	<0.01	<10	10	15	<10	14
W639683		20	0.01	<10	<10	19	<10	19
W639684		20	0.05	<10	<10	24	<10	23
W639685		20	0.01	<10	<10	17	<10	12
W639686		20	0.01	<10	10	20	<10	13
W639687		<20	0.03	<10	<10	24	<10	17
W639688		20	0.01	<10	10	20	<10	13
W639689		20	0.01	<10	<10	23	<10	21
W639690		<20	<0.01	<10	<10	<1	<10	3
W639691		<20	<0.01	<10	10	16	<10	13
W639692		20	<0.01	<10	<10	17	<10	18
W639693		20	<0.01	<10	<10	17	<10	15
W639694		20	<0.01	<10	<10	6	<10	13
W639695		20	0.01	<10	<10	22	<10	15
W639696		20	0.02	<10	<10	19	<10	16
W639697		20	0.01	<10	<10	17	<10	17
W639698		20	0.01	<10	<10	22	<10	15
W639699		20	0.01	<10	<10	24	<10	21
W639700		<20	0.14	<10	<10	63	10	55
W639701		20	0.06	<10	<10	25	<10	21
W639702		20	0.01	<10	<10	20	<10	19
W639703		20	0.07	<10	<10	27	<10	14
W639704		20	0.05	<10	<10	29	<10	11
W639705		20	0.01	<10	<10	18	<10	13
W639706		20	0.04	<10	<10	26	<10	19
W639707		20	0.01	<10	<10	19	<10	12
W639708		20	0.02	<10	<10	22	<10	24
W639709		20	<0.01	<10	<10	14	<10	39
W639710		<20	<0.01	<10	<10	1	<10	4
W639711		20	<0.01	<10	<10	15	<10	22
W639712		20	<0.01	<10	<10	19	<10	20
W639713		20	<0.01	<10	10	22	<10	21
W639714		20	0.01	<10	<10	26	<10	17
W639715		20	0.01	<10	<10	23	<10	20
W639716		20	0.02	<10	<10	25	<10	25
W639717		20	<0.01	<10	<10	14	<10	17
W639718		<20	<0.01	<10	<10	8	<10	19
W639719		20	<0.01	<10	<10	16	<10	16
W639720		<20	0.14	<10	<10	63	10	57

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639721		4.65	0.017	<0.2	0.98	188	<10	330	0.6	10	1.18	<0.5	5	5	31	2.21
W639722		4.95	<0.005	<0.2	0.89	22	<10	150	<0.5	<2	1.09	<0.5	4	7	21	1.89
W639723		4.84	<0.005	<0.2	0.97	13	<10	170	<0.5	<2	0.86	<0.5	3	7	27	2.05
W639724		5.46	0.006	<0.2	0.93	19	<10	150	<0.5	<2	1.06	<0.5	4	7	22	2.07
W639725		4.15	<0.005	<0.2	0.81	11	<10	130	0.7	<2	1.38	<0.5	4	4	31	1.90
W639726		4.92	0.010	<0.2	0.61	34	<10	160	0.6	<2	1.25	<0.5	5	3	36	2.08
W639727		4.58	0.005	<0.2	0.73	17	<10	140	0.6	<2	1.20	<0.5	4	4	17	1.99
W639728		4.74	0.028	0.2	0.56	19	<10	40	0.6	<2	1.61	<0.5	4	3	22	2.24
W639729		4.77	0.016	0.3	0.88	31	<10	60	0.6	<2	0.80	<0.5	4	5	29	2.05
W639730		0.44	0.047	7.2	0.04	<2	<10	20	<0.5	4	>25.0	<0.5	<1	1	3	0.10
W639731		4.09	0.040	0.2	1.05	16	<10	170	0.7	<2	2.39	<0.5	5	4	59	2.24
W639732		4.83	<0.005	<0.2	1.04	6	<10	250	<0.5	<2	0.98	<0.5	5	6	13	2.15
W639733		5.19	0.005	<0.2	1.07	33	<10	140	<0.5	<2	1.29	<0.5	5	7	16	2.04
W639734		4.68	<0.005	<0.2	1.12	13	<10	150	0.5	2	1.69	<0.5	5	7	8	1.91
W639735		4.62	<0.005	0.3	1.01	24	<10	140	<0.5	<2	1.85	<0.5	4	7	20	1.97
W639736		5.74	0.013	0.3	0.99	134	<10	190	0.7	<2	1.92	<0.5	5	5	28	2.05
W639737		4.25	<0.005	2.8	1.16	31	<10	230	0.8	<2	1.78	<0.5	5	19	51	2.06
W639738		4.56	0.018	0.2	1.09	39	<10	250	0.8	<2	3.23	<0.5	4	5	24	1.89
W639739		4.37	0.005	<0.2	0.78	448	<10	230	0.7	4	5.65	<0.5	5	3	60	2.52
W639740		0.06	0.665	5.2	1.25	30	10	50	<0.5	2	0.53	5.0	14	20	5320	5.89
W639741		4.48	<0.005	0.2	0.77	41	<10	120	0.6	<2	1.14	<0.5	4	3	33	2.06
W639742		4.87	0.006	<0.2	0.75	37	<10	170	0.7	<2	1.27	<0.5	4	3	26	1.92
W639743		4.39	0.016	<0.2	0.87	104	<10	110	0.5	<2	1.14	<0.5	4	5	21	2.03
W639744		6.56	<0.005	<0.2	0.79	17	<10	100	<0.5	<2	1.19	<0.5	4	5	22	1.96
W639745		6.50	<0.005	<0.2	0.80	24	<10	180	<0.5	<2	0.66	<0.5	3	7	16	1.99
W639746		6.62	<0.005	<0.2	0.82	32	<10	200	<0.5	<2	0.64	<0.5	3	7	11	1.89
W639747		6.29	<0.005	0.2	0.52	867	<10	140	0.5	5	1.03	<0.5	5	5	178	2.46
W639748		7.34	<0.005	<0.2	0.77	73	<10	190	<0.5	<2	1.00	<0.5	4	6	27	2.13
W639749		3.45	<0.005	<0.2	0.80	7	<10	240	<0.5	<2	0.65	<0.5	3	9	4	1.79
W639750		0.49	<0.005	<0.2	0.02	<2	<10	10	<0.5	3	>25.0	<0.5	<1	<1	2	0.11
W639751		3.46	<0.005	<0.2	0.76	4	<10	220	<0.5	<2	0.71	<0.5	3	7	8	1.83
W639752		7.09	<0.005	<0.2	0.77	16	<10	210	<0.5	<2	0.89	<0.5	4	7	11	1.90
W639753		6.48	<0.005	<0.2	0.76	20	<10	150	0.5	<2	1.56	<0.5	3	6	10	1.72
W639754		5.58	<0.005	<0.2	0.96	37	<10	80	0.5	<2	0.86	<0.5	4	5	24	1.93
W639755		6.15	<0.005	<0.2	0.74	46	<10	90	0.5	4	1.14	<0.5	3	3	30	1.98
W639756		6.74	<0.005	<0.2	0.85	15	<10	140	<0.5	<2	0.65	<0.5	3	6	8	1.71
W639757		6.64	<0.005	<0.2	0.90	3	<10	220	<0.5	2	0.66	<0.5	3	7	12	1.86
W639758		6.70	<0.005	<0.2	0.87	6	<10	180	<0.5	2	0.73	<0.5	4	9	17	1.86
W639759		7.18	<0.005	<0.2	0.84	4	<10	220	<0.5	<2	0.63	<0.5	3	7	14	1.84
W639760		0.06	0.304	0.9	1.47	7	<10	120	<0.5	2	0.86	<0.5	11	26	3140	2.99

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639721		<10	1	0.18	30	0.55	238	1	0.02	3	530	7	0.54	2	2	62
W639722		<10	<1	0.20	30	0.48	258	5	0.05	2	500	5	0.33	2	2	67
W639723		<10	<1	0.25	30	0.52	262	1	0.07	3	550	6	0.42	3	3	51
W639724		<10	1	0.19	30	0.51	263	<1	0.07	3	540	5	0.39	2	3	59
W639725		<10	<1	0.17	30	0.43	167	<1	0.02	3	500	7	0.53	6	2	80
W639726		<10	<1	0.14	30	0.44	251	<1	0.01	3	600	8	0.62	5	2	29
W639727		<10	<1	0.11	40	0.41	312	<1	0.01	5	680	10	0.30	2	3	25
W639728		<10	<1	0.13	30	0.55	434	<1	<0.01	3	490	9	0.29	<2	3	33
W639729		<10	<1	0.16	30	0.41	163	<1	0.02	3	540	7	0.51	5	2	56
W639730		<10	<1	0.01	<10	0.75	118	<1	<0.01	<1	70	2	0.01	<2	<1	89
W639731		<10	<1	0.19	40	0.49	311	2	0.01	3	580	9	0.47	3	2	118
W639732		10	<1	0.38	30	0.54	474	<1	0.07	3	600	6	0.21	<2	3	65
W639733		<10	<1	0.25	30	0.55	328	<1	0.05	4	570	7	0.27	<2	3	67
W639734		<10	<1	0.25	30	0.56	350	<1	0.04	3	550	6	0.11	<2	3	93
W639735		<10	<1	0.24	30	0.52	278	<1	0.04	3	540	6	0.29	<2	2	74
W639736		<10	<1	0.16	30	0.50	296	<1	0.01	3	570	7	0.41	<2	3	97
W639737		<10	<1	0.20	40	0.55	339	3	0.01	6	550	11	0.22	<2	2	107
W639738		<10	<1	0.21	40	0.48	305	<1	0.01	3	550	8	0.35	<2	3	134
W639739		<10	<1	0.14	30	0.32	353	<1	<0.01	3	480	11	0.89	6	2	128
W639740		<10	<1	0.28	<10	0.37	698	106	0.03	17	500	111	4.13	<2	2	38
W639741		<10	<1	0.12	40	0.47	274	1	<0.01	3	560	12	0.42	2	2	49
W639742		<10	<1	0.13	30	0.46	248	1	<0.01	3	560	10	0.42	<2	2	54
W639743		<10	<1	0.17	30	0.46	276	1	0.04	3	530	5	0.31	<2	3	61
W639744		<10	<1	0.16	30	0.43	228	1	0.04	3	500	6	0.32	<2	2	57
W639745		<10	<1	0.26	50	0.39	226	2	0.07	3	460	5	0.23	<2	2	45
W639746		<10	<1	0.31	40	0.41	315	1	0.07	3	460	4	0.19	<2	3	44
W639747		<10	<1	0.18	30	0.32	300	<1	0.04	3	510	6	0.75	7	2	66
W639748		<10	<1	0.26	30	0.42	296	1	0.06	3	510	5	0.37	<2	3	57
W639749		<10	<1	0.31	40	0.41	411	<1	0.08	3	430	6	0.06	<2	3	50
W639750		<10	<1	0.01	<10	0.96	136	<1	<0.01	<1	70	<2	0.03	<2	<1	85
W639751		<10	<1	0.32	30	0.40	447	<1	0.08	3	450	6	0.11	<2	3	52
W639752		<10	<1	0.30	30	0.44	379	<1	0.07	3	490	7	0.14	<2	3	58
W639753		<10	<1	0.19	30	0.48	278	<1	0.03	3	480	6	0.12	3	3	83
W639754		<10	<1	0.16	30	0.43	293	1	0.02	5	510	9	0.34	3	2	85
W639755		<10	<1	0.16	40	0.41	365	<1	0.01	3	470	6	0.45	3	2	111
W639756		<10	<1	0.23	30	0.40	297	1	0.05	3	440	7	0.18	<2	2	52
W639757		<10	<1	0.31	40	0.43	284	<1	0.08	3	460	3	0.17	<2	3	44
W639758		<10	<1	0.29	20	0.40	253	<1	0.08	3	430	6	0.27	<2	3	45
W639759		<10	<1	0.30	40	0.38	326	1	0.09	3	420	5	0.17	<2	3	43
W639760		10	<1	0.19	10	0.69	434	227	0.09	23	610	10	0.45	4	5	44

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639721		20	0.01	<10	<10	20	<10	16
W639722		20	0.02	<10	<10	24	<10	22
W639723		20	0.04	<10	<10	28	<10	25
W639724		20	0.02	<10	<10	25	<10	19
W639725		<20	<0.01	<10	<10	15	<10	10
W639726		<20	<0.01	<10	<10	14	<10	9
W639727		20	<0.01	<10	<10	17	<10	23
W639728		20	<0.01	<10	<10	14	<10	16
W639729		20	<0.01	<10	<10	18	<10	17
W639730		<20	<0.01	<10	<10	<1	<10	2
W639731		20	0.01	<10	<10	21	<10	22
W639732		20	0.07	<10	<10	29	<10	37
W639733		20	0.03	<10	<10	28	<10	32
W639734		20	0.04	<10	<10	26	<10	28
W639735		20	0.03	<10	<10	26	<10	32
W639736		20	0.01	<10	<10	21	<10	20
W639737		20	0.02	<10	<10	22	40	23
W639738		20	0.02	<10	<10	20	<10	16
W639739		20	<0.01	<10	<10	14	<10	18
W639740		<20	0.02	<10	<10	23	<10	878
W639741		20	<0.01	<10	<10	15	<10	17
W639742		20	<0.01	<10	<10	13	<10	12
W639743		20	0.02	<10	<10	22	<10	20
W639744		20	0.01	<10	<10	20	<10	19
W639745		20	0.03	<10	<10	22	<10	18
W639746		20	0.05	<10	<10	23	<10	26
W639747		20	0.01	<10	<10	16	<10	27
W639748		20	0.03	<10	<10	23	<10	22
W639749		20	0.06	<10	<10	23	<10	32
W639750		<20	<0.01	<10	<10	<1	<10	<2
W639751		20	0.06	<10	<10	23	<10	35
W639752		20	0.05	<10	<10	24	<10	32
W639753		20	0.02	<10	<10	18	<10	21
W639754		20	0.01	<10	<10	19	<10	23
W639755		20	<0.01	<10	<10	11	<10	9
W639756		20	0.04	<10	<10	21	<10	23
W639757		20	0.09	<10	<10	26	<10	24
W639758		20	0.08	<10	<10	25	<10	25
W639759		20	0.08	<10	<10	25	<10	29
W639760		<20	0.13	<10	<10	58	10	56

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639761		7.12	0.009	<0.2	0.80	125	<10	190	<0.5	3	0.69	<0.5	3	6	25	1.97
W639762		6.44	<0.005	<0.2	0.88	71	<10	240	<0.5	<2	0.67	<0.5	3	6	13	1.98
W639763		6.86	0.010	<0.2	0.75	23	<10	250	<0.5	2	0.70	<0.5	3	7	18	1.91
W639764		6.68	<0.005	<0.2	0.79	7	<10	230	<0.5	<2	0.72	<0.5	3	5	14	1.96
W639765		6.53	0.005	<0.2	0.98	100	<10	200	<0.5	<2	1.62	<0.5	5	4	53	2.32
W639766		7.16	0.011	<0.2	1.06	3	<10	350	<0.5	<2	0.67	<0.5	4	5	13	2.42
W639767		6.90	0.007	<0.2	1.04	6	<10	300	<0.5	<2	0.67	<0.5	4	5	18	2.38
W639768		7.46	0.016	<0.2	1.02	7	<10	220	<0.5	<2	0.77	<0.5	4	6	34	2.41
W639769		4.97	0.023	<0.2	1.01	9	<10	230	<0.5	<2	0.80	<0.5	4	4	47	2.39
W639770		0.52	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
W639771		3.63	0.089	<0.2	0.98	5	<10	190	<0.5	<2	0.83	<0.5	5	4	82	2.57
W639772		6.09	0.039	0.8	0.35	61	<10	310	<0.5	2	0.07	<0.5	2	2	98	1.26
W639773		7.70	0.087	0.6	0.32	127	<10	170	<0.5	2	0.04	<0.5	2	2	33	2.01
W639774		7.67	0.036	0.3	0.47	70	<10	160	<0.5	<2	0.04	<0.5	2	2	67	1.42
W639775		7.31	0.069	0.6	0.45	112	<10	190	<0.5	<2	0.04	<0.5	2	2	57	1.56
W639776		8.59	0.895	0.9	0.37	124	<10	170	<0.5	<2	0.03	<0.5	<1	2	30	1.49
W639777		7.00	0.068	0.4	0.47	106	<10	180	<0.5	<2	0.04	<0.5	1	2	30	1.07
W639778		6.96	0.031	0.4	0.50	116	<10	330	<0.5	<2	0.05	<0.5	12	2	69	2.23
W639779		7.96	0.055	0.4	0.46	186	<10	360	<0.5	<2	0.04	<0.5	5	1	47	2.00
W639780		0.06	0.321	0.9	1.49	6	<10	120	<0.5	<2	0.88	<0.5	12	28	3110	3.01
W639781		8.64	0.044	0.4	0.41	206	<10	270	<0.5	<2	0.04	<0.5	3	2	44	2.43
W639782		8.85	0.117	0.3	0.56	297	<10	350	0.5	<2	0.06	0.5	6	2	114	1.99
W639783		7.82	0.138	0.2	0.61	477	<10	470	0.5	<2	0.07	<0.5	8	3	102	2.45
W639784		9.92	0.058	0.4	0.66	274	<10	530	0.6	<2	0.07	<0.5	10	2	129	2.33
W639785		9.14	0.366	1.7	0.69	676	<10	250	0.5	12	0.08	0.5	19	2	221	3.51
W639786		9.87	0.089	0.5	0.62	554	<10	190	<0.5	<2	0.11	0.8	12	2	279	2.29
W639787		9.76	0.047	0.3	0.59	199	<10	320	<0.5	<2	0.33	1.2	16	2	286	2.04
W639788		10.33	0.105	0.4	0.63	226	<10	300	0.5	<2	0.37	1.3	15	2	145	2.20
W639789		8.53	0.065	0.2	0.55	360	<10	210	<0.5	<2	0.55	1.7	15	2	68	2.11
W639790		0.25	<0.005	<0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	2	0.08
W639791		7.94	0.053	<0.2	0.55	329	<10	400	<0.5	<2	0.70	1.7	14	2	47	1.75
W639792		9.46	0.065	0.5	0.51	220	<10	250	<0.5	<2	0.67	1.4	19	2	191	2.16
W639793		9.35	0.129	0.4	0.53	263	<10	210	<0.5	<2	1.14	0.6	22	2	116	2.43
W639794		10.71	0.330	0.5	0.58	3160	<10	160	<0.5	<2	0.68	0.7	7	2	212	2.78
W639795		8.98	0.204	0.4	0.55	2240	<10	220	<0.5	<2	0.32	1.8	10	2	161	2.74
W639796		9.97	0.217	0.4	0.55	2800	<10	350	<0.5	<2	1.17	3.1	5	2	145	2.78
W639797		10.58	0.130	0.4	0.48	1945	<10	400	<0.5	<2	1.22	1.9	4	2	114	2.66
W639798		10.56	0.081	0.3	0.56	842	<10	440	<0.5	<2	0.78	1.0	6	2	98	2.63
W639799		8.94	0.048	0.3	0.51	711	<10	230	<0.5	<2	1.09	2.0	5	2	90	2.50
W639800		0.06	0.294	0.9	1.49	5	<10	120	<0.5	<2	0.88	<0.5	11	28	3180	2.96

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639761		<10	<1	0.20	60	0.36	203	2	0.07	2	420	4	0.34	<2	2	41
W639762		<10	<1	0.29	50	0.40	211	<1	0.08	3	450	4	0.17	2	2	47
W639763		<10	<1	0.20	80	0.31	156	1	0.08	3	420	4	0.27	10	2	43
W639764		<10	<1	0.20	80	0.35	134	2	0.08	4	450	5	0.27	3	2	42
W639765		10	<1	0.23	70	0.46	478	1	0.07	3	600	11	0.59	15	2	69
W639766		<10	<1	0.32	50	0.55	236	<1	0.10	3	690	4	0.25	<2	3	43
W639767		10	<1	0.27	50	0.52	172	1	0.10	2	670	5	0.31	<2	3	41
W639768		10	<1	0.18	60	0.52	132	1	0.08	3	670	4	0.57	2	3	44
W639769		10	<1	0.20	50	0.53	156	2	0.08	2	670	4	0.54	<2	3	43
W639770		<10	<1	<0.01	<10	0.57	110	1	0.01	<1	80	2	0.01	<2	<1	83
W639771		10	<1	0.15	50	0.53	113	1	0.07	1	680	5	0.92	<2	3	40
W639772		<10	<1	0.33	<10	0.02	18	15	0.01	2	320	70	0.30	5	1	68
W639773		<10	<1	0.53	<10	0.02	18	29	0.02	2	340	54	0.74	<2	1	88
W639774		<10	<1	0.27	10	0.02	20	14	0.01	2	350	25	0.28	3	1	76
W639775		<10	<1	0.35	20	0.02	40	14	0.01	2	380	46	0.34	5	2	90
W639776		<10	<1	0.45	<10	0.02	40	27	0.02	2	350	95	0.53	7	1	85
W639777		<10	<1	0.39	10	0.03	67	20	0.01	1	340	64	0.34	6	1	77
W639778		<10	<1	0.40	20	0.03	255	17	0.01	5	530	46	0.50	2	2	80
W639779		<10	<1	0.45	10	0.03	110	11	0.02	3	450	45	0.52	2	2	105
W639780		10	<1	0.19	10	0.73	443	257	0.09	23	640	10	0.47	3	5	46
W639781		<10	1	0.55	10	0.02	84	12	0.02	2	610	49	0.74	<2	1	125
W639782		<10	<1	0.36	20	0.03	152	10	0.01	3	520	31	0.41	2	2	135
W639783		<10	<1	0.35	10	0.03	45	13	0.01	2	580	26	0.39	<2	2	117
W639784		<10	<1	0.29	10	0.03	80	10	0.01	2	660	40	0.32	4	2	76
W639785		<10	<1	0.34	10	0.03	195	8	0.02	4	710	85	0.40	12	3	83
W639786		<10	<1	0.22	20	0.02	120	6	0.01	4	690	42	0.19	4	2	40
W639787		<10	1	0.20	20	0.13	303	6	0.01	5	670	28	0.46	2	2	34
W639788		<10	1	0.21	20	0.16	347	5	0.01	5	670	39	0.50	<2	2	39
W639789		<10	<1	0.18	20	0.32	504	5	0.01	5	660	24	0.52	5	2	39
W639790		<10	<1	<0.01	<10	0.63	119	<1	0.01	<1	70	<2	0.01	<2	<1	83
W639791		<10	<1	0.18	20	0.32	383	5	0.01	4	660	11	0.42	<2	2	32
W639792		<10	<1	0.17	20	0.32	404	3	0.01	5	670	37	0.66	7	2	34
W639793		<10	<1	0.16	20	0.46	641	2	0.01	4	620	29	0.82	4	2	53
W639794		<10	<1	0.19	10	0.37	577	2	0.01	4	640	51	0.89	22	2	28
W639795		<10	<1	0.20	20	0.14	273	3	0.01	3	650	51	0.82	19	2	36
W639796		<10	<1	0.17	20	0.61	604	2	0.01	3	640	74	0.72	27	2	36
W639797		<10	<1	0.17	30	0.63	618	1	0.01	3	560	71	0.64	24	2	38
W639798		<10	<1	0.19	30	0.47	553	2	0.01	5	620	47	0.56	17	2	34
W639799		<10	<1	0.17	30	0.59	541	1	0.01	4	620	71	0.40	17	2	47
W639800		<10	1	0.19	10	0.72	433	252	0.09	23	640	8	0.47	<2	5	44

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639761		20	0.05	<10	<10	21	<10	16
W639762		20	0.08	<10	<10	20	<10	18
W639763		20	0.04	<10	<10	16	<10	12
W639764		20	0.04	<10	<10	18	<10	11
W639765		20	0.03	<10	<10	21	<10	16
W639766		20	0.16	<10	<10	31	<10	19
W639767		20	0.13	<10	<10	28	<10	13
W639768		20	0.05	<10	<10	26	<10	10
W639769		20	0.03	<10	<10	26	<10	10
W639770		<20	<0.01	<10	<10	<1	<10	<2
W639771		20	0.05	<10	<10	26	<10	9
W639772		<20	<0.01	<10	<10	5	<10	19
W639773		<20	<0.01	<10	<10	4	<10	7
W639774		<20	<0.01	<10	<10	6	<10	25
W639775		<20	<0.01	<10	<10	6	<10	28
W639776		<20	<0.01	<10	<10	4	<10	8
W639777		<20	<0.01	<10	<10	4	<10	8
W639778		<20	<0.01	<10	<10	8	<10	131
W639779		<20	<0.01	<10	<10	5	<10	68
W639780		<20	0.13	<10	<10	60	10	56
W639781		<20	<0.01	<10	<10	6	<10	65
W639782		<20	<0.01	<10	<10	9	<10	67
W639783		<20	<0.01	<10	<10	7	<10	93
W639784		<20	<0.01	<10	10	7	<10	81
W639785		<20	<0.01	<10	10	11	<10	70
W639786		<20	<0.01	<10	<10	10	<10	75
W639787		<20	<0.01	<10	<10	10	<10	78
W639788		<20	<0.01	<10	<10	10	<10	83
W639789		<20	<0.01	<10	<10	9	<10	94
W639790		<20	<0.01	<10	<10	<1	<10	<2
W639791		<20	<0.01	<10	<10	8	<10	51
W639792		<20	<0.01	<10	<10	9	<10	63
W639793		<20	<0.01	<10	<10	9	<10	93
W639794		<20	<0.01	<10	<10	9	<10	62
W639795		<20	<0.01	<10	<10	8	<10	122
W639796		<20	<0.01	<10	<10	9	<10	157
W639797		<20	<0.01	<10	<10	10	<10	136
W639798		<20	<0.01	<10	<10	11	<10	92
W639799		<20	<0.01	<10	<10	10	<10	160
W639800		<20	0.13	<10	<10	60	10	56

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639801		11.06	0.081	0.5	0.58	530	<10	280	<0.5	2	0.91	1.9	6	2	135	3.08
W639802		8.85	0.063	0.3	0.60	676	<10	320	0.5	<2	0.33	0.8	10	2	105	2.76
W639803		9.69	0.094	0.4	0.62	548	<10	130	<0.5	<2	0.08	<0.5	12	2	113	3.32
W639804		9.52	0.069	0.6	0.57	800	<10	420	<0.5	<2	0.15	2.2	11	2	102	3.55
W639805		9.88	0.038	0.5	0.59	362	<10	120	<0.5	2	0.67	1.4	10	2	44	2.24
W639806		10.27	0.009	0.4	0.55	40	<10	240	<0.5	<2	0.62	2.1	10	3	62	2.11
W639807		10.07	0.008	0.2	0.53	14	<10	110	<0.5	<2	0.62	0.9	9	2	18	2.00
W639808		8.84	0.006	0.3	0.56	15	<10	100	<0.5	<2	0.52	0.9	10	2	15	1.70
W639809		4.21	0.009	0.3	0.58	9	<10	160	<0.5	<2	0.46	<0.5	10	3	12	1.80
W639810		0.35	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.06
W639811		5.84	0.010	<0.2	0.62	8	<10	200	<0.5	<2	0.58	<0.5	10	2	3	1.81
W639812		5.70	0.013	<0.2	0.58	21	<10	230	<0.5	<2	0.89	<0.5	22	2	2	2.53
W639813		7.39	0.006	<0.2	0.67	14	<10	110	<0.5	<2	0.70	<0.5	28	2	15	2.71
W639814		4.60	0.020	0.3	0.55	23	<10	150	0.5	<2	0.93	<0.5	20	2	74	2.68
W639815		3.46	0.012	0.7	0.56	20	10	210	0.5	2	1.16	<0.5	16	2	349	2.59
W639816		4.61	0.037	1.5	0.54	34	<10	220	0.5	<2	1.03	0.6	9	2	1020	2.02
W639817		5.80	0.018	0.9	0.54	37	<10	340	0.5	<2	1.05	0.9	6	2	271	2.04
W639818		6.04	0.021	0.6	0.55	62	<10	220	<0.5	<2	1.20	0.8	7	2	268	2.19
W639819		6.25	0.024	0.3	0.50	40	<10	170	<0.5	<2	1.00	0.6	16	2	93	2.03
W639820		0.06	0.388	1.0	1.50	5	<10	120	<0.5	<2	0.89	0.6	11	28	3170	2.96
W639821		6.07	0.024	0.2	0.51	79	<10	80	<0.5	3	0.93	<0.5	47	2	20	3.32
W639822		3.99	0.025	0.2	0.53	46	<10	80	<0.5	2	1.00	<0.5	24	2	102	2.46
W639823		3.50	0.045	0.2	0.53	58	<10	70	<0.5	3	1.25	<0.5	24	2	30	2.50
W639824		4.74	0.061	0.4	0.53	947	<10	120	<0.5	2	0.92	1.3	16	2	124	2.43
W639825		5.84	0.065	0.8	0.55	1450	<10	120	<0.5	2	0.91	0.5	11	2	245	2.82
W639826		6.11	0.043	0.6	0.54	345	<10	90	0.5	2	1.03	0.5	7	2	193	2.54
W639827		6.36	0.018	0.3	0.55	31	<10	370	0.6	2	1.80	<0.5	5	2	110	2.41
W639828		5.62	0.031	1.0	0.50	109	<10	100	0.5	5	1.22	0.9	7	2	268	3.29
W639829		6.24	0.034	0.3	0.56	114	<10	240	0.6	3	1.09	0.5	6	2	104	1.98
W639830		0.35	0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.09
W639831		6.52	0.009	0.2	0.53	15	<10	140	0.6	2	1.34	0.5	2	2	67	1.68
W639832		6.07	0.024	0.7	0.55	114	<10	110	0.5	2	1.01	0.7	5	2	222	2.88
W639833		6.39	0.012	0.3	0.58	62	<10	20	0.5	<2	1.08	0.5	5	2	120	2.13
W639834		6.43	0.010	0.3	0.58	130	<10	40	0.5	<2	1.48	0.7	5	2	117	1.99
W639835		6.28	0.012	0.4	0.47	97	<10	120	<0.5	<2	0.86	0.8	5	2	102	2.03
W639836		5.92	0.033	0.3	0.51	283	<10	340	0.5	<2	1.12	0.6	5	2	85	2.51
W639837		7.08	0.021	<0.2	0.55	37	<10	370	0.5	<2	1.39	<0.5	2	2	97	2.54
W639838		5.98	0.019	<0.2	0.54	38	<10	50	0.5	<2	1.44	<0.5	1	3	93	2.78
W639839		6.38	0.021	<0.2	0.51	26	<10	150	0.5	<2	1.42	<0.5	2	3	46	2.74
W639840		0.06	0.293	0.8	1.44	4	<10	120	<0.5	<2	0.84	<0.5	11	27	3090	2.97

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639801		<10	<1	0.20	20	0.48	486	1	0.01	4	590	65	0.84	20	2	53
W639802		<10	<1	0.19	30	0.20	482	2	0.01	5	660	34	0.31	21	2	33
W639803		<10	<1	0.29	30	0.03	197	2	0.01	4	540	46	0.30	15	2	57
W639804		<10	1	0.30	20	0.11	385	2	0.01	3	670	80	0.42	9	2	76
W639805		<10	<1	0.17	20	0.39	453	2	0.01	3	610	66	0.50	9	2	31
W639806		<10	<1	0.17	20	0.37	427	4	0.01	4	620	33	0.62	10	2	44
W639807		<10	<1	0.17	30	0.38	408	3	0.01	3	620	21	0.57	2	2	44
W639808		<10	<1	0.18	30	0.33	351	4	0.01	3	630	12	0.37	<2	2	44
W639809		<10	<1	0.16	30	0.33	337	2	0.01	3	570	17	0.44	<2	2	43
W639810		<10	<1	0.01	<10	0.63	102	<1	0.01	<1	70	<2	0.01	<2	<1	86
W639811		<10	<1	0.16	20	0.37	342	1	0.01	2	550	10	0.45	<2	2	52
W639812		<10	<1	0.16	20	0.51	382	1	0.01	4	610	9	1.02	<2	2	64
W639813		<10	<1	0.18	20	0.41	286	<1	0.01	4	660	14	1.70	<2	2	61
W639814		<10	<1	0.18	20	0.50	314	2	0.01	3	650	11	1.43	4	2	66
W639815		<10	<1	0.18	30	0.60	336	1	0.01	4	640	12	1.12	13	2	72
W639816		<10	<1	0.18	30	0.56	308	2	0.01	3	640	17	0.55	28	2	71
W639817		<10	<1	0.18	20	0.56	308	3	0.01	4	640	25	0.64	15	2	85
W639818		<10	<1	0.18	20	0.63	357	5	0.01	3	620	15	0.70	15	2	93
W639819		<10	<1	0.17	30	0.51	282	3	0.01	4	630	12	0.86	6	2	81
W639820		<10	<1	0.19	10	0.72	434	254	0.09	23	650	9	0.47	<2	5	45
W639821		<10	<1	0.18	30	0.46	251	4	0.01	6	610	15	2.59	<2	2	64
W639822		<10	<1	0.17	30	0.48	297	4	0.01	3	660	10	1.42	8	2	67
W639823		<10	<1	0.17	30	0.54	316	3	0.01	3	690	11	1.36	2	2	76
W639824		<10	<1	0.16	20	0.46	323	3	0.01	4	690	38	1.15	12	2	46
W639825		<10	<1	0.17	20	0.48	286	3	0.01	4	660	24	1.62	19	2	52
W639826		<10	1	0.17	30	0.54	294	1	0.01	3	670	26	1.16	17	2	58
W639827		<10	<1	0.18	30	0.82	357	1	0.01	3	630	12	0.63	9	2	109
W639828		<10	<1	0.15	20	0.59	293	1	0.01	3	610	22	2.00	14	2	67
W639829		<10	<1	0.17	30	0.49	269	1	0.01	3	670	14	0.59	5	2	57
W639830		<10	1	0.01	<10	1.19	117	<1	0.01	<1	70	<2	0.01	<2	<1	84
W639831		<10	<1	0.15	30	0.64	251	1	0.01	2	640	11	0.17	6	2	71
W639832		<10	<1	0.15	10	0.50	287	1	0.01	4	640	20	1.64	34	2	44
W639833		<10	<1	0.15	30	0.51	396	1	0.01	3	660	18	0.55	18	2	46
W639834		<10	<1	0.15	30	0.65	400	<1	0.01	3	640	24	0.39	22	2	56
W639835		<10	<1	0.13	30	0.44	370	10	0.01	3	550	36	0.60	12	2	41
W639836		<10	<1	0.14	30	0.58	508	1	<0.01	6	620	46	0.62	13	3	49
W639837		<10	1	0.14	30	0.69	526	1	<0.01	4	620	16	0.48	19	3	55
W639838		<10	<1	0.14	20	0.76	554	1	<0.01	3	620	8	0.39	16	3	61
W639839		<10	1	0.15	20	0.75	555	1	<0.01	4	640	6	0.35	4	3	74
W639840		10	<1	0.19	10	0.72	435	246	0.08	23	630	8	0.47	3	5	42

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639801		<20	<0.01	<10	<10	9	<10	184
W639802		<20	<0.01	<10	<10	10	<10	120
W639803		<20	<0.01	<10	<10	10	<10	134
W639804		<20	<0.01	<10	<10	9	<10	190
W639805		<20	<0.01	<10	<10	9	<10	84
W639806		<20	<0.01	<10	<10	8	<10	39
W639807		<20	<0.01	<10	<10	9	<10	31
W639808		<20	<0.01	<10	<10	8	<10	29
W639809		<20	<0.01	<10	<10	8	<10	24
W639810		<20	<0.01	<10	<10	<1	<10	<2
W639811		<20	<0.01	<10	<10	8	<10	26
W639812		<20	<0.01	<10	<10	9	<10	27
W639813		<20	<0.01	<10	<10	8	<10	27
W639814		<20	<0.01	<10	<10	7	<10	25
W639815		<20	<0.01	<10	<10	8	<10	33
W639816		<20	<0.01	<10	<10	8	<10	68
W639817		<20	<0.01	<10	<10	7	<10	94
W639818		<20	<0.01	<10	<10	9	<10	72
W639819		<20	<0.01	<10	<10	7	<10	35
W639820		<20	0.14	<10	<10	60	10	56
W639821		<20	<0.01	<10	<10	10	<10	23
W639822		<20	<0.01	<10	<10	8	<10	30
W639823		<20	<0.01	<10	<10	8	<10	31
W639824		<20	<0.01	<10	<10	8	<10	119
W639825		<20	<0.01	<10	<10	8	<10	53
W639826		<20	<0.01	<10	10	8	<10	55
W639827		<20	<0.01	<10	<10	9	<10	31
W639828		<20	<0.01	<10	<10	7	<10	68
W639829		<20	<0.01	<10	<10	7	<10	50
W639830		<20	<0.01	<10	<10	<1	<10	2
W639831		<20	<0.01	<10	<10	8	<10	41
W639832		<20	<0.01	<10	<10	6	<10	50
W639833		<20	<0.01	<10	<10	7	<10	52
W639834		<20	<0.01	<10	<10	8	<10	65
W639835		<20	<0.01	<10	<10	8	<10	76
W639836		<20	<0.01	<10	<10	10	<10	70
W639837		<20	<0.01	<10	<10	10	<10	46
W639838		<20	<0.01	<10	<10	12	<10	36
W639839		<20	<0.01	<10	<10	12	<10	31
W639840		<20	0.13	<10	<10	59	10	53

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639841		6.54	0.015	<0.2	0.44	44	<10	110	0.5	<2	1.33	<0.5	5	3	57	2.40
W639842		6.57	0.019	<0.2	0.42	43	<10	120	0.5	<2	1.30	<0.5	2	3	103	2.66
W639843		6.28	0.015	<0.2	0.46	52	<10	120	0.5	<2	0.96	<0.5	2	3	68	2.36
W639844		6.24	0.015	<0.2	0.47	69	<10	90	<0.5	<2	0.89	<0.5	2	3	116	2.46
W639845		6.41	0.019	0.2	0.40	44	<10	280	<0.5	<2	1.03	<0.5	1	3	114	2.60
W639846		5.62	0.018	<0.2	0.49	74	<10	70	0.5	<2	1.07	<0.5	1	3	85	2.63
W639847		6.64	0.021	0.3	0.43	177	<10	130	0.5	<2	1.01	<0.5	3	3	127	2.40
W639848		4.52	0.021	<0.2	0.47	471	<10	190	<0.5	<2	1.01	<0.5	2	2	83	2.17
W639849		6.89	0.027	<0.2	0.49	414	<10	400	0.5	<2	1.10	<0.5	1	2	93	2.34
W639850		0.46	<0.005	<0.2	0.03	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.08
W639851		6.31	0.022	<0.2	0.50	528	<10	280	0.5	<2	1.06	<0.5	2	2	69	2.23
W639852		6.43	0.028	<0.2	0.46	622	<10	170	0.5	<2	1.24	<0.5	1	2	47	2.02
W639853		6.15	0.023	<0.2	0.52	481	<10	340	0.5	<2	1.50	0.5	1	2	57	1.97
W639854		6.65	0.019	<0.2	0.44	291	<10	130	0.5	<2	1.23	<0.5	1	2	37	1.79
W639855		6.65	0.046	0.2	0.49	1075	<10	140	0.5	<2	1.43	<0.5	2	2	115	2.42
W639856		5.00	0.053	0.3	0.49	1125	<10	120	<0.5	<2	1.19	0.5	3	2	114	2.25
W639857		3.09	0.047	0.4	0.51	526	<10	110	<0.5	<2	2.02	0.5	3	2	331	2.26
W639858		4.26	0.027	<0.2	0.51	354	<10	220	0.5	<2	2.32	<0.5	3	2	68	2.07
W639859		6.15	0.038	<0.2	0.53	600	<10	140	0.5	<2	2.74	<0.5	5	2	100	1.96
W639860		0.06	0.293	0.8	1.51	7	<10	120	<0.5	<2	0.90	<0.5	11	28	3210	3.10
W639861		5.37	0.032	0.4	0.51	108	<10	80	0.5	<2	1.22	0.5	4	2	156	2.30
W639862		6.44	0.167	0.3	0.50	1620	<10	230	<0.5	<2	1.16	<0.5	2	2	189	2.43
W639863		6.02	0.089	0.3	0.48	1630	<10	50	<0.5	<2	0.90	2.0	2	3	121	2.01
W639864		7.07	0.081	0.3	0.46	1765	<10	140	0.5	<2	1.17	0.7	2	3	96	2.15
W639865		6.39	0.035	<0.2	0.44	131	<10	280	0.5	<2	1.32	<0.5	3	3	177	2.59
W639866		5.92	0.039	0.4	0.44	73	<10	120	0.5	<2	0.97	<0.5	3	3	265	2.83
W639867		6.20	0.106	0.8	0.48	183	<10	80	0.5	<2	0.99	<0.5	6	3	546	3.40
W639868		5.90	0.037	0.7	0.48	52	<10	60	0.5	<2	0.76	<0.5	2	2	355	2.68
W639869		6.59	0.040	<0.2	0.51	1020	<10	130	0.5	<2	0.89	<0.5	1	3	84	1.95
W639870		0.32	<0.005	<0.2	0.02	2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.08
W639871		6.78	0.022	<0.2	0.50	221	<10	40	0.5	<2	0.86	<0.5	2	3	78	2.00
W639872		7.11	0.043	0.3	0.49	967	<10	160	<0.5	<2	0.82	<0.5	3	2	99	2.05
W639873		6.36	0.026	<0.2	0.49	527	<10	110	<0.5	<2	0.99	<0.5	1	2	95	2.01
W639874		6.95	0.023	0.2	0.49	385	<10	90	<0.5	<2	1.03	<0.5	2	2	166	2.22
W639875		7.16	0.018	<0.2	0.53	167	<10	30	0.5	<2	1.17	<0.5	2	2	132	1.98
W639876		6.53	0.009	<0.2	0.50	101	<10	140	0.5	<2	1.42	<0.5	3	2	102	2.04
W639877		7.17	0.035	0.3	0.49	470	<10	190	0.5	<2	1.10	<0.5	5	2	151	2.32
W639878		6.35	<0.005	<0.2	0.64	24	<10	50	0.6	<2	1.00	<0.5	1	1	6	1.06
W639879		7.01	0.152	0.4	0.52	1645	<10	120	0.5	<2	1.26	<0.5	6	3	224	3.03
W639880		0.06	0.725	5.0	1.17	29	<10	50	<0.5	3	0.52	5.0	15	21	5200	5.85

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639841		<10	<1	0.15	20	0.61	459	2	<0.01	4	620	8	0.46	4	3	64
W639842		<10	<1	0.16	20	0.63	503	1	<0.01	3	660	11	0.58	9	3	64
W639843		<10	1	0.16	20	0.51	463	1	<0.01	4	650	9	0.47	3	3	48
W639844		<10	<1	0.17	20	0.49	451	2	<0.01	3	680	11	0.56	13	3	39
W639845		<10	<1	0.16	20	0.54	440	2	<0.01	3	660	7	0.69	10	3	45
W639846		<10	<1	0.20	20	0.53	392	1	<0.01	3	710	11	0.96	4	2	53
W639847		<10	<1	0.16	20	0.57	341	1	<0.01	3	670	14	0.76	10	2	63
W639848		<10	<1	0.16	20	0.53	314	1	<0.01	3	630	13	0.58	10	2	59
W639849		<10	<1	0.16	20	0.60	334	1	<0.01	3	640	17	0.56	25	2	47
W639850		<10	<1	0.01	<10	1.29	139	1	0.01	<1	70	<2	<0.01	<2	<1	75
W639851		<10	<1	0.17	30	0.58	357	1	<0.01	3	660	26	0.41	18	2	51
W639852		<10	<1	0.16	30	0.62	363	1	<0.01	4	640	19	0.34	7	2	67
W639853		<10	1	0.17	30	0.64	360	<1	<0.01	2	630	39	0.28	9	2	67
W639854		<10	<1	0.15	30	0.58	344	1	<0.01	3	640	22	0.34	6	2	73
W639855		<10	<1	0.17	20	0.67	410	1	0.01	4	640	16	0.65	10	2	81
W639856		<10	<1	0.16	30	0.56	429	<1	<0.01	4	610	24	0.57	10	2	54
W639857		<10	<1	0.16	30	0.87	477	<1	0.01	4	600	32	0.52	30	2	62
W639858		<10	<1	0.16	30	0.97	472	1	0.01	3	600	16	0.30	17	2	66
W639859		<10	<1	0.16	30	1.14	436	1	0.01	2	560	24	0.38	24	2	79
W639860		10	<1	0.20	10	0.75	455	260	0.09	24	670	9	0.49	5	5	45
W639861		<10	1	0.16	30	0.59	508	1	0.01	4	690	42	0.46	13	3	56
W639862		<10	1	0.16	20	0.55	419	1	<0.01	4	660	22	0.87	14	2	53
W639863		<10	<1	0.17	30	0.45	350	1	0.01	3	650	76	0.50	23	2	50
W639864		<10	1	0.17	20	0.49	359	1	0.01	3	640	28	0.55	8	2	66
W639865		<10	<1	0.16	20	0.58	372	1	0.01	3	640	15	0.74	21	2	78
W639866		<10	<1	0.16	20	0.53	348	1	0.01	3	660	16	1.11	34	2	55
W639867		<10	<1	0.17	20	0.53	343	<1	0.01	4	630	21	1.85	88	2	59
W639868		<10	<1	0.16	20	0.51	332	1	0.01	4	620	25	0.88	54	2	54
W639869		<10	<1	0.17	20	0.47	304	1	0.01	3	640	5	0.43	15	2	53
W639870		<10	<1	0.01	<10	1.50	134	1	0.01	1	70	<2	0.01	<2	<1	77
W639871		<10	<1	0.17	20	0.47	283	<1	0.01	3	640	32	0.48	10	2	44
W639872		<10	1	0.16	20	0.44	260	<1	0.01	2	610	23	0.68	31	2	34
W639873		<10	<1	0.15	30	0.51	275	<1	0.01	2	600	14	0.44	19	2	39
W639874		<10	<1	0.16	30	0.51	280	1	0.01	2	630	14	0.67	24	2	37
W639875		<10	<1	0.16	30	0.51	282	2	0.01	<1	610	9	0.37	27	2	41
W639876		<10	<1	0.16	30	0.61	299	2	0.01	2	590	7	0.41	22	2	64
W639877		<10	<1	0.16	30	0.51	329	17	0.01	1	640	10	0.65	14	2	64
W639878		<10	1	0.16	30	0.37	252	5	0.01	1	720	2	0.06	4	1	69
W639879		<10	1	0.15	10	0.68	325	2	0.01	2	610	10	1.31	17	2	95
W639880		<10	1	0.26	<10	0.38	700	109	0.04	16	500	109	4.21	3	2	37

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639841		<20	<0.01	<10	<10	10	<10	26
W639842		<20	<0.01	<10	<10	12	<10	28
W639843		<20	<0.01	<10	<10	11	<10	35
W639844		<20	<0.01	<10	10	11	<10	31
W639845		<20	<0.01	<10	<10	13	<10	27
W639846		<20	<0.01	<10	<10	16	<10	26
W639847		<20	<0.01	<10	<10	12	<10	34
W639848		<20	<0.01	<10	<10	10	<10	31
W639849		<20	<0.01	<10	<10	9	<10	46
W639850		<20	<0.01	<10	<10	<1	<10	<2
W639851		<20	<0.01	<10	<10	10	<10	48
W639852		<20	<0.01	<10	<10	10	<10	42
W639853		<20	<0.01	<10	<10	9	<10	59
W639854		<20	<0.01	<10	<10	7	<10	35
W639855		<20	<0.01	<10	<10	9	<10	42
W639856		<20	<0.01	<10	<10	8	<10	56
W639857		<20	<0.01	<10	<10	8	<10	74
W639858		<20	<0.01	<10	<10	8	<10	38
W639859		<20	<0.01	<10	<10	7	<10	42
W639860		<20	0.13	<10	<10	62	10	55
W639861		<20	<0.01	<10	<10	9	<10	66
W639862		<20	<0.01	<10	<10	8	<10	43
W639863		<20	<0.01	<10	<10	9	<10	186
W639864		<20	<0.01	<10	<10	8	<10	57
W639865		<20	<0.01	<10	<10	9	<10	38
W639866		<20	<0.01	<10	<10	9	<10	49
W639867		<20	<0.01	<10	<10	9	<10	52
W639868		<20	<0.01	<10	<10	9	<10	51
W639869		<20	<0.01	<10	<10	7	<10	23
W639870		<20	<0.01	<10	<10	<1	<10	3
W639871		<20	<0.01	<10	<10	9	<10	43
W639872		<20	<0.01	<10	<10	8	<10	30
W639873		<20	<0.01	<10	<10	10	<10	33
W639874		<20	<0.01	<10	<10	10	<10	36
W639875		<20	<0.01	<10	<10	12	<10	28
W639876		<20	<0.01	<10	<10	11	<10	24
W639877		<20	<0.01	<10	<10	11	<10	29
W639878		<20	<0.01	<10	<10	8	<10	20
W639879		<20	<0.01	<10	<10	13	<10	25
W639880		<20	0.02	<10	<10	23	<10	847

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
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Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
W639881		5.09	0.032	0.2	0.50	120	<10	260	0.5	2	1.24	<0.5	8	3	189	2.78
W639882		3.36	0.075	0.2	0.49	830	<10	280	<0.5	<2	0.84	<0.5	9	4	104	3.32
W639883		4.00	0.013	0.2	0.85	96	<10	220	0.6	<2	1.11	<0.5	6	2	126	2.69
W639884		6.96	0.054	0.2	0.78	42	<10	200	<0.5	<2	1.02	<0.5	6	3	190	2.58
W639885		6.94	0.053	0.3	0.60	52	<10	180	0.5	<2	0.84	<0.5	7	2	184	2.35
W639886		6.27	0.063	0.4	0.42	112	<10	140	0.5	2	1.15	<0.5	19	2	216	2.71
W639887		6.19	0.211	0.5	0.64	174	<10	160	0.5	11	1.88	<0.5	6	2	327	2.20
W639888		6.17	0.066	0.5	0.67	128	<10	120	0.6	12	1.13	<0.5	22	1	266	3.26
W639889		6.57	0.306	1.0	0.59	477	<10	110	0.5	7	1.40	<0.5	27	5	336	2.94
W639890		0.29	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.10
W639891		6.85	0.048	0.3	0.39	251	<10	140	0.5	<2	0.96	<0.5	9	2	275	2.35
W639892		6.74	0.027	0.4	0.56	467	<10	200	0.6	<2	1.47	<0.5	6	2	166	2.44
W639893		6.37	0.098	0.9	0.63	75	<10	110	0.6	<2	1.10	<0.5	9	1	403	2.51
W639894		6.51	0.157	0.6	0.94	80	<10	140	0.6	3	0.46	<0.5	14	2	399	2.63
W639895		6.77	0.038	0.3	0.78	177	<10	160	0.5	3	0.98	<0.5	8	3	207	2.25
W639896		6.56	0.041	0.2	0.59	85	<10	220	<0.5	3	1.10	<0.5	10	3	233	2.51
W639897		7.19	0.052	0.3	0.69	341	<10	190	0.5	<2	0.87	<0.5	11	3	325	2.67
W639898		6.73	0.048	0.2	0.66	267	<10	190	0.5	<2	0.89	<0.5	9	3	277	2.47
W639899		6.29	0.039	0.4	0.45	142	<10	180	<0.5	<2	0.84	<0.5	7	4	220	2.03
W639900		0.06	0.288	0.9	1.44	6	<10	120	<0.5	3	0.84	0.5	11	28	3110	2.93
W639901		7.42	0.024	0.2	0.43	85	<10	170	<0.5	<2	1.00	<0.5	8	3	206	2.18
W639902		5.45	3.71	0.6	0.78	20	<10	220	<0.5	173	0.70	<0.5	7	4	232	2.45
W639903		3.56	0.048	0.3	0.59	36	<10	180	<0.5	<2	0.83	<0.5	8	3	306	2.32
W639904		4.55	0.058	0.2	0.50	989	<10	140	0.5	<2	0.58	<0.5	6	2	263	2.36
W639905		6.60	0.044	0.2	0.48	214	<10	90	0.7	<2	0.67	<0.5	10	3	273	2.68
W639906		6.88	0.028	0.2	0.54	274	<10	120	0.7	<2	1.19	<0.5	8	4	194	2.51

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
W639881		<10	1	0.15	10	0.69	473	1	0.01	1	590	11	0.78	17	3	69
W639882		<10	1	0.16	20	0.68	645	10	0.01	5	650	16	0.78	17	4	60
W639883		<10	1	0.30	60	0.64	170	1	0.04	2	880	9	0.76	6	4	58
W639884		<10	1	0.28	60	0.59	122	2	0.07	2	840	6	0.78	3	3	47
W639885		<10	1	0.19	70	0.47	116	2	0.06	3	730	7	0.86	3	3	43
W639886		<10	<1	0.15	60	0.46	132	5	0.04	3	620	11	1.84	3	2	49
W639887		<10	<1	0.12	60	0.69	162	3	0.01	1	600	10	0.65	42	2	116
W639888		<10	1	0.12	80	0.47	161	2	0.02	2	690	11	1.78	14	3	77
W639889		<10	<1	0.13	60	0.50	166	5	0.02	3	700	38	1.85	15	3	78
W639890		<10	1	<0.01	<10	2.38	154	<1	0.01	<1	80	3	<0.01	<2	<1	75
W639891		<10	1	0.13	60	0.42	103	2	0.05	3	670	8	1.18	12	3	53
W639892		<10	1	0.10	70	0.58	156	3	0.03	3	630	12	0.89	17	2	93
W639893		<10	<1	0.13	80	0.45	133	2	0.03	4	630	11	1.22	5	2	107
W639894		<10	1	0.15	60	0.48	81	2	0.03	2	610	9	1.57	4	2	134
W639895		<10	<1	0.15	70	0.56	106	1	0.06	3	690	6	0.74	11	2	54
W639896		<10	<1	0.16	100	0.53	107	2	0.06	4	550	6	0.96	6	2	72
W639897		<10	1	0.15	100	0.41	103	7	0.06	2	630	6	0.99	17	2	58
W639898		<10	<1	0.15	90	0.42	92	3	0.07	2	550	5	0.96	12	2	58
W639899		<10	1	0.14	100	0.34	100	5	0.06	2	490	7	0.72	7	2	49
W639900		10	1	0.19	10	0.71	437	241	0.09	22	640	10	0.45	3	5	43
W639901		<10	<1	0.12	90	0.36	100	4	0.06	2	480	5	0.79	3	2	55
W639902		<10	1	0.16	70	0.48	120	44	0.07	2	660	7	0.81	<2	3	45
W639903		<10	<1	0.14	70	0.36	107	2	0.06	2	640	7	0.91	3	2	44
W639904		<10	<1	0.12	40	0.23	101	4	0.02	1	440	5	1.37	22	2	48
W639905		<10	<1	0.14	40	0.28	114	<1	0.04	2	670	5	1.15	6	3	144
W639906		<10	1	0.13	40	0.33	127	<1	0.05	3	600	5	0.84	16	3	58

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639881		<20	<0.01	<10	<10	16	<10	37
W639882		<20	<0.01	<10	<10	16	<10	60
W639883		<20	0.03	<10	<10	26	<10	24
W639884		<20	0.03	<10	<10	27	<10	26
W639885		<20	0.01	<10	<10	19	10	25
W639886		<20	<0.01	<10	<10	11	<10	35
W639887		20	<0.01	<10	<10	12	<10	27
W639888		20	<0.01	<10	<10	11	<10	22
W639889		20	<0.01	<10	<10	11	<10	39
W639890		<20	<0.01	<10	<10	<1	<10	<2
W639891		20	<0.01	<10	<10	13	<10	26
W639892		20	<0.01	<10	<10	11	<10	19
W639893		20	<0.01	<10	<10	10	<10	36
W639894		20	<0.01	<10	<10	17	<10	26
W639895		20	0.01	<10	<10	21	<10	20
W639896		20	0.01	<10	<10	16	<10	21
W639897		20	0.01	<10	<10	18	<10	24
W639898		20	0.01	<10	<10	17	<10	17
W639899		20	<0.01	<10	<10	12	<10	21
W639900		<20	0.12	<10	<10	59	10	54
W639901		20	<0.01	<10	<10	12	<10	15
W639902		20	0.01	<10	<10	21	<10	21
W639903		20	<0.01	<10	<10	16	<10	23
W639904		<20	<0.01	<10	<10	11	10	20
W639905		<20	<0.01	<10	<10	17	<10	19
W639906		<20	<0.01	<10	<10	22	<10	19

Comments: **Corrected copy for Au- AA23 on samples W639716 to W639745**

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191958

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 18- OCT- 2017
Account: NOFREG

CERTIFICATE WH17191963

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 200 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- SEP- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Finalized Date: 18- OCT- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
W639907		7.06	0.035	<0.2	0.60	340	<10	260	0.9	2	2.09	<0.5	9	25	178	3.41
W639908		4.65	0.048	0.3	0.43	309	<10	230	0.5	<2	0.95	<0.5	8	3	290	2.25
W639909		4.49	0.054	0.3	0.57	500	<10	200	0.5	<2	1.20	<0.5	7	2	349	2.55
W639910		0.44	<0.005	<0.2	0.02	2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	2	0.08
W639911		4.09	0.030	<0.2	1.23	88	<10	220	0.5	<2	0.93	<0.5	4	4	124	2.14
W639912		6.74	0.052	<0.2	1.05	24	<10	230	<0.5	2	0.82	<0.5	5	5	139	2.34
W639913		6.74	0.040	0.2	0.81	80	<10	160	<0.5	<2	0.96	<0.5	6	5	188	2.22
W639914		6.50	0.037	0.2	0.84	74	<10	150	<0.5	<2	0.95	<0.5	8	4	224	2.31
W639915		7.20	0.054	0.2	1.01	17	<10	230	<0.5	<2	0.66	<0.5	7	6	202	2.42
W639916		7.12	0.032	<0.2	0.89	13	<10	250	<0.5	<2	0.63	<0.5	6	5	149	2.07
W639917		7.15	0.123	0.6	0.91	28	<10	180	<0.5	2	0.82	<0.5	10	6	495	2.37
W639918		13.38	0.073	0.2	0.99	24	<10	280	<0.5	<2	0.64	<0.5	8	4	319	2.51
W639919		6.00	0.151	0.7	0.86	126	<10	180	<0.5	<2	0.71	<0.5	7	5	508	2.41
W639920		0.07	0.268	0.9	1.44	6	<10	120	<0.5	2	0.85	<0.5	11	27	3040	2.92
W639921		3.98	0.160	0.6	0.68	175	<10	230	<0.5	<2	0.82	<0.5	9	4	547	2.26
W639922		3.33	0.103	0.6	0.70	18	<10	220	<0.5	<2	1.16	<0.5	9	3	465	2.49
W639923		4.44	0.030	0.2	0.92	15	<10	210	<0.5	<2	0.84	<0.5	7	6	192	2.19
W639924		5.21	0.030	0.3	0.96	35	<10	210	<0.5	<2	0.58	<0.5	11	6	313	3.13
W639925		5.14	0.037	0.2	0.88	17	<10	190	<0.5	<2	1.20	<0.5	7	3	253	2.76
W639926		5.14	0.047	0.2	1.01	12	<10	270	<0.5	<2	0.69	<0.5	8	5	211	2.61
W639927		4.99	0.034	0.3	1.02	12	<10	190	<0.5	<2	1.14	<0.5	8	4	286	2.56
W639928		5.19	0.031	0.3	0.97	26	<10	160	<0.5	2	1.42	<0.5	12	4	331	2.76
W639929		6.04	0.030	<0.2	1.10	22	<10	180	<0.5	<2	1.00	<0.5	7	4	187	2.55
W639930		0.57	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.07
W639931		5.47	0.036	0.2	0.98	132	<10	160	<0.5	2	1.31	<0.5	7	4	213	2.44
W639932		5.55	0.021	0.2	0.97	53	<10	150	<0.5	<2	0.90	<0.5	7	5	201	2.18
W639933		5.53	0.027	<0.2	1.03	17	<10	210	<0.5	<2	0.93	<0.5	7	4	172	2.19
W639934		5.47	0.069	0.2	1.01	70	<10	190	<0.5	2	0.81	<0.5	9	5	304	2.42
W639935		5.14	0.020	<0.2	1.03	6	<10	270	<0.5	<2	0.64	<0.5	4	5	85	2.01
W639936		5.33	0.034	<0.2	1.01	18	<10	220	<0.5	<2	0.79	<0.5	6	5	149	2.21
W639937		5.59	0.113	<0.2	0.99	46	<10	160	<0.5	3	0.99	<0.5	8	4	224	2.53
W639938		5.19	0.036	<0.2	1.19	11	<10	180	0.5	<2	1.08	<0.5	7	4	200	2.46
W639939		5.53	0.029	0.2	0.96	28	<10	200	0.6	2	1.07	<0.5	11	3	274	2.88
W639940		0.07	0.731	5.1	1.31	27	10	50	<0.5	2	0.55	5.2	14	21	5140	5.72
W639941		5.08	0.809	<0.2	0.89	108	<10	220	0.5	28	1.48	<0.5	7	3	189	2.18
W639942		5.29	0.038	0.3	0.65	52	<10	170	<0.5	<2	0.83	<0.5	11	3	397	2.54
W639943		4.96	0.021	<0.2	1.20	15	<10	140	0.8	<2	1.45	<0.5	5	2	158	2.00
W639944		5.47	0.133	<0.2	0.98	35	<10	90	0.6	4	1.64	<0.5	7	3	227	2.22
W639945		4.85	0.047	0.2	1.21	66	<10	130	0.7	<2	0.75	<0.5	10	3	341	2.34
W639946		4.92	0.022	<0.2	0.93	73	<10	160	0.5	<2	1.47	<0.5	4	2	103	1.79

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639907		<10	<1	0.11	60	0.67	246	2	0.05	15	1110	3	0.73	9	10	104
W639908		<10	<1	0.16	70	0.38	105	2	0.05	2	550	5	1.01	5	2	63
W639909		<10	<1	0.17	90	0.44	115	1	0.05	2	500	7	1.13	19	2	74
W639910		<10	1	<0.01	<10	1.02	120	<1	0.02	<1	70	<2	<0.01	<2	<1	82
W639911		10	<1	0.32	40	0.48	93	2	0.12	2	650	3	0.30	3	3	77
W639912		10	<1	0.32	40	0.52	96	1	0.10	2	660	4	0.39	<2	3	60
W639913		10	<1	0.18	50	0.45	91	6	0.07	2	590	6	0.66	<2	2	52
W639914		10	<1	0.18	50	0.50	109	1	0.06	3	690	8	0.84	<2	2	53
W639915		10	<1	0.26	30	0.51	83	1	0.10	2	670	4	0.76	<2	3	52
W639916		10	<1	0.19	40	0.46	80	2	0.09	2	620	5	0.59	<2	2	46
W639917		10	<1	0.18	50	0.53	105	2	0.07	4	660	7	0.96	<2	2	43
W639918		10	<1	0.22	40	0.49	78	1	0.09	2	710	5	0.84	<2	2	52
W639919		10	<1	0.27	50	0.51	106	7	0.07	6	680	10	0.82	2	3	49
W639920		<10	1	0.19	10	0.69	428	254	0.09	23	630	8	0.45	2	5	43
W639921		<10	<1	0.20	50	0.35	80	5	0.06	2	530	8	1.04	5	2	52
W639922		<10	1	0.17	50	0.45	171	3	0.05	3	690	21	0.92	<2	2	61
W639923		10	<1	0.26	30	0.45	105	13	0.08	2	600	7	0.82	3	2	57
W639924		10	<1	0.17	40	0.54	84	1	0.07	2	690	6	1.26	2	2	48
W639925		<10	<1	0.20	50	0.53	110	1	0.07	2	720	5	0.82	<2	2	67
W639926		10	<1	0.24	40	0.55	87	1	0.09	3	670	5	0.76	<2	2	45
W639927		10	1	0.18	50	0.55	115	2	0.07	3	710	8	0.82	<2	2	59
W639928		10	<1	0.17	50	0.50	137	3	0.06	2	690	13	1.27	<2	2	63
W639929		10	<1	0.21	40	0.54	95	<1	0.07	2	700	3	0.77	2	3	60
W639930		<10	1	<0.01	<10	0.90	104	<1	0.02	<1	70	<2	<0.01	<2	<1	75
W639931		10	<1	0.19	40	0.52	130	1	0.07	2	740	6	0.78	<2	3	74
W639932		10	<1	0.17	40	0.52	100	2	0.06	2	650	7	0.76	4	2	55
W639933		10	<1	0.23	50	0.48	102	2	0.08	2	630	5	0.66	<2	2	55
W639934		10	<1	0.23	40	0.52	89	5	0.08	2	750	4	0.83	5	3	45
W639935		10	<1	0.39	50	0.50	89	<1	0.10	2	590	4	0.28	<2	2	53
W639936		10	<1	0.31	40	0.48	94	2	0.09	2	640	4	0.47	<2	2	51
W639937		10	<1	0.28	40	0.54	121	6	0.07	2	680	16	0.95	<2	2	54
W639938		10	<1	0.29	40	0.58	105	3	0.08	2	790	4	0.69	2	3	74
W639939		<10	<1	0.29	40	0.56	133	23	0.06	3	890	8	0.92	4	3	84
W639940		<10	<1	0.28	<10	0.37	704	116	0.05	16	500	109	4.08	2	2	39
W639941		<10	<1	0.18	60	0.41	87	1	0.05	2	590	4	0.82	7	2	82
W639942		<10	<1	0.18	50	0.36	78	2	0.07	2	550	3	1.10	2	2	54
W639943		10	<1	0.25	20	0.44	91	<1	0.06	1	640	3	0.49	4	2	95
W639944		10	<1	0.15	40	0.38	84	1	0.05	2	630	3	0.88	4	2	85
W639945		10	<1	0.20	40	0.41	80	4	0.07	3	520	4	1.06	5	2	76
W639946		10	<1	0.15	50	0.38	81	1	0.05	1	490	4	0.55	6	1	89

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639907		<20	<0.01	<10	<10	49	<10	30
W639908		20	<0.01	<10	<10	11	<10	21
W639909		20	<0.01	<10	<10	11	<10	20
W639910		<20	<0.01	<10	<10	<1	<10	<2
W639911		<20	0.05	<10	<10	20	<10	13
W639912		<20	0.06	<10	<10	22	<10	14
W639913		<20	0.02	<10	<10	19	<10	18
W639914		<20	0.01	<10	<10	19	<10	20
W639915		<20	0.06	<10	<10	24	<10	13
W639916		<20	0.03	<10	<10	20	<10	13
W639917		<20	0.02	<10	<10	21	<10	27
W639918		<20	0.03	<10	<10	23	<10	15
W639919		<20	0.04	<10	<10	22	<10	31
W639920		<20	0.13	<10	<10	58	10	55
W639921		20	0.01	<10	<10	16	<10	22
W639922		<20	0.01	<10	<10	18	<10	30
W639923		<20	0.03	<10	<10	18	<10	16
W639924		<20	0.02	<10	<10	23	<10	18
W639925		<20	0.03	<10	<10	20	<10	18
W639926		<20	0.04	<10	<10	25	<10	16
W639927		<20	0.02	<10	<10	23	<10	28
W639928		<20	0.01	<10	<10	19	<10	31
W639929		<20	0.03	<10	<10	23	<10	14
W639930		<20	<0.01	<10	<10	<1	<10	<2
W639931		<20	0.02	<10	<10	22	<10	18
W639932		<20	0.01	<10	<10	22	<10	21
W639933		<20	0.02	<10	<10	20	<10	17
W639934		<20	0.04	<10	<10	23	70	15
W639935		20	0.11	<10	<10	24	<10	12
W639936		<20	0.05	<10	<10	23	<10	14
W639937		<20	0.04	<10	<10	26	10	23
W639938		<20	0.03	<10	<10	25	<10	18
W639939		<20	0.02	<10	<10	21	<10	25
W639940		<20	0.03	<10	<10	23	<10	834
W639941		<20	0.01	<10	<10	16	<10	13
W639942		20	0.01	<10	<10	15	<10	13
W639943		<20	0.02	<10	<10	22	<10	10
W639944		<20	0.01	<10	<10	22	<10	10
W639945		<20	0.01	<10	<10	24	<10	12
W639946		<20	0.01	<10	<10	10	<10	9

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639947		5.60	0.357	0.6	0.64	92	<10	150	0.5	2	1.45	<0.5	17	2	701	2.97
W639948		5.31	0.289	1.2	0.46	827	<10	90	0.5	2	2.74	<0.5	26	2	1160	4.41
W639949		5.23	0.113	0.3	0.51	26	<10	140	0.5	2	0.80	<0.5	9	3	373	2.15
W639950		0.39	<0.005	<0.2	0.03	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	5	0.19
W639951		5.09	0.060	<0.2	0.91	37	<10	200	<0.5	2	0.95	<0.5	6	4	175	2.22
W639952		4.46	0.118	0.6	0.57	37	<10	110	0.6	<2	1.93	<0.5	9	1	476	1.80
W639953		5.05	0.031	<0.2	1.02	92	<10	140	0.5	<2	0.91	<0.5	7	3	220	2.21
W639954		4.53	0.038	0.2	0.90	37	<10	90	0.5	2	1.04	<0.5	11	3	346	2.73
W639955		6.63	0.089	0.5	1.16	34	<10	100	0.6	2	1.21	<0.5	11	4	448	2.89
W639956		3.96	0.079	0.3	1.05	29	<10	100	0.5	2	1.02	<0.5	10	11	323	2.75
W639957		2.79	0.074	0.3	0.92	17	<10	90	0.5	<2	1.00	<0.5	11	9	311	2.54
W639958		2.99	0.161	1.2	0.49	51	<10	70	0.5	<2	1.42	<0.5	12	6	958	2.47
W639959		3.14	0.161	1.2	0.79	43	<10	120	0.5	2	1.16	<0.5	11	9	926	2.44
W639960		0.07	0.287	0.9	1.51	6	10	120	<0.5	<2	0.92	0.5	11	28	3110	3.02
W639961		3.15	0.319	1.1	0.58	154	<10	60	0.5	<2	1.73	<0.5	9	4	845	2.16
W639962		2.97	0.638	2.2	0.58	164	<10	50	0.6	2	1.94	0.5	8	3	1760	1.90
W639963		2.96	0.293	0.4	0.59	1010	<10	30	0.6	7	1.43	<0.5	10	4	406	2.60
W639964		2.96	0.045	0.2	0.87	277	<10	90	0.5	3	1.08	<0.5	10	8	289	2.64
W639965		2.74	0.033	0.2	0.91	8	<10	80	<0.5	<2	1.03	<0.5	8	11	225	2.59
W639966		2.05	0.036	0.5	0.89	24	<10	60	0.5	3	1.00	<0.5	10	10	368	2.47
W639967		5.02	0.032	0.3	1.02	64	<10	60	0.5	3	1.48	<0.5	10	11	302	2.69
W639968		3.92	0.038	0.4	0.88	11	<10	200	<0.5	<2	0.98	<0.5	9	4	308	2.11
W639969		6.09	0.046	0.5	0.66	6	<10	140	<0.5	4	1.00	<0.5	9	3	449	1.93
W639970		0.34	<0.005	<0.2	0.06	3	<10	20	<0.5	3	>25.0	<0.5	<1	1	2	0.10
W639971		6.76	0.045	0.4	0.94	2	<10	100	<0.5	2	0.80	<0.5	11	4	435	2.62
W639972		5.92	0.056	0.2	0.93	2	<10	190	<0.5	<2	1.00	<0.5	8	5	264	2.46
W639973		5.70	0.017	0.2	0.69	13	<10	200	<0.5	3	1.14	<0.5	7	8	247	2.34
W639974		5.28	0.027	0.2	0.69	296	<10	110	0.8	2	2.89	<0.5	9	2	295	2.65
W639975		5.18	0.094	0.3	1.02	481	<10	160	0.7	<2	1.46	<0.5	9	4	250	2.36
W639976		6.06	0.038	0.3	1.06	348	<10	160	0.6	2	1.63	<0.5	14	3	387	3.39
W639977		6.23	0.025	<0.2	0.94	12	<10	310	<0.5	2	0.98	<0.5	8	6	203	2.66
W639978		5.65	0.050	0.2	0.95	14	<10	240	<0.5	3	1.03	<0.5	8	5	254	2.47
W639979		5.51	0.029	0.3	0.91	548	<10	180	0.5	<2	1.91	<0.5	12	3	390	2.60
W639980		0.07	0.261	0.9	1.51	6	10	120	<0.5	2	0.93	0.5	11	28	3120	3.01
W639981		5.66	0.020	0.3	1.26	342	<10	260	0.5	<2	1.34	<0.5	8	16	281	2.81
W639982		6.67	0.034	0.2	1.15	300	<10	140	0.6	2	0.78	<0.5	7	5	269	2.62
W639983		5.60	0.042	0.2	0.90	10	<10	230	<0.5	<2	0.87	<0.5	9	5	331	2.50
W639984		5.36	0.028	0.3	1.01	20	<10	180	<0.5	3	0.86	<0.5	9	5	356	2.65
W639985		5.52	0.029	0.3	1.05	6	<10	250	<0.5	<2	0.95	<0.5	8	6	261	2.70
W639986		5.38	0.019	0.3	1.11	7	<10	210	<0.5	3	0.89	<0.5	10	6	297	2.91

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639947		<10	<1	0.18	40	0.34	77	26	0.05	2	600	6	1.67	5	1	88
W639948		<10	<1	0.14	30	0.41	96	24	0.04	3	430	6	2.98	33	1	118
W639949		<10	<1	0.18	50	0.29	74	6	0.07	3	490	4	0.98	3	2	63
W639950		<10	<1	<0.01	<10	2.27	145	<1	0.02	<1	70	<2	0.04	<2	<1	74
W639951		<10	<1	0.28	40	0.45	92	2	0.10	2	600	4	0.66	<2	2	81
W639952		<10	<1	0.17	30	0.54	130	57	0.03	3	580	29	0.77	2	2	131
W639953		10	<1	0.28	30	0.51	86	5	0.09	3	750	4	0.73	4	3	95
W639954		<10	<1	0.24	20	0.56	84	2	0.08	3	820	4	1.05	2	2	85
W639955		10	<1	0.33	20	0.67	94	17	0.09	3	880	5	0.98	2	2	93
W639956		10	<1	0.29	30	0.75	70	5	0.06	4	830	3	0.94	2	4	65
W639957		10	<1	0.24	30	0.66	68	4	0.05	5	790	3	0.98	<2	3	63
W639958		<10	<1	0.17	30	0.55	74	14	0.04	7	770	5	0.97	2	3	106
W639959		10	<1	0.27	30	0.65	74	11	0.06	6	770	6	0.92	<2	3	87
W639960		10	<1	0.19	10	0.73	452	269	0.09	23	640	9	0.44	2	5	45
W639961		<10	<1	0.19	30	0.58	90	76	0.02	6	730	9	0.79	13	3	118
W639962		<10	<1	0.18	30	0.64	102	140	0.01	9	760	9	0.47	10	3	128
W639963		<10	<1	0.12	30	0.54	82	16	0.01	5	780	5	0.78	15	3	52
W639964		<10	<1	0.29	30	0.58	63	3	0.06	4	800	3	1.02	2	3	73
W639965		10	<1	0.28	30	0.74	71	3	0.05	3	830	3	0.90	<2	3	64
W639966		10	<1	0.20	30	0.74	70	7	0.05	3	810	3	0.92	2	3	61
W639967		10	<1	0.26	30	0.73	77	2	0.05	4	840	4	0.98	3	3	79
W639968		<10	<1	0.22	40	0.45	76	1	0.08	2	590	5	0.66	<2	2	59
W639969		<10	<1	0.19	40	0.40	68	6	0.06	2	550	4	0.75	<2	1	57
W639970		<10	<1	0.01	<10	0.44	97	<1	0.01	<1	60	<2	<0.01	<2	<1	78
W639971		10	<1	0.16	40	0.49	79	1	0.09	2	630	3	1.14	<2	2	50
W639972		10	<1	0.23	40	0.53	88	7	0.09	2	690	3	0.83	<2	2	46
W639973		<10	<1	0.14	50	0.44	91	3	0.06	2	670	4	0.94	<2	2	54
W639974		<10	<1	0.13	40	1.00	122	4	0.01	2	600	3	1.04	9	2	223
W639975		<10	<1	0.15	20	0.54	94	2	0.03	3	790	4	0.80	7	2	89
W639976		10	<1	0.24	30	0.59	122	1	0.08	3	820	6	1.43	4	2	139
W639977		10	1	0.24	40	0.61	100	1	0.08	2	740	2	0.89	2	2	66
W639978		10	<1	0.22	50	0.56	95	1	0.09	2	660	3	0.88	<2	2	54
W639979		10	<1	0.20	50	0.60	93	2	0.06	1	620	3	1.04	4	1	90
W639980		<10	1	0.19	10	0.73	457	257	0.09	23	640	10	0.44	4	5	46
W639981		10	<1	0.33	30	0.65	103	2	0.09	9	740	3	0.91	10	3	96
W639982		10	<1	0.29	30	0.66	84	2	0.07	2	800	3	0.93	9	2	87
W639983		10	<1	0.23	50	0.55	84	2	0.10	2	670	3	0.87	<2	3	47
W639984		10	<1	0.24	40	0.57	88	3	0.08	2	690	3	0.98	<2	3	58
W639985		10	<1	0.23	40	0.61	94	2	0.10	2	710	4	0.93	<2	3	74
W639986		10	<1	0.27	30	0.67	104	1	0.10	2	820	3	1.00	<2	3	64

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639947		<20	<0.01	<10	<10	7	<10	16
W639948		<20	<0.01	<10	<10	4	<10	26
W639949		<20	<0.01	<10	<10	8	<10	15
W639950		<20	<0.01	<10	<10	<1	<10	2
W639951		<20	0.02	<10	<10	14	<10	14
W639952		<20	<0.01	<10	<10	4	<10	28
W639953		<20	0.02	<10	<10	19	10	13
W639954		<20	0.02	<10	<10	20	20	16
W639955		<20	0.03	<10	<10	26	50	18
W639956		<20	0.04	<10	<10	42	10	15
W639957		<20	0.02	<10	<10	37	<10	16
W639958		<20	0.01	<10	<10	20	<10	28
W639959		<20	0.03	<10	<10	31	110	25
W639960		<20	0.14	<10	<10	60	10	56
W639961		<20	0.01	<10	<10	14	<10	28
W639962		<20	<0.01	<10	<10	11	10	47
W639963		<20	<0.01	<10	<10	22	<10	16
W639964		<20	0.03	<10	<10	34	<10	13
W639965		<20	0.04	<10	<10	42	<10	14
W639966		<20	0.02	<10	<10	40	<10	17
W639967		<20	0.03	<10	<10	38	<10	16
W639968		<20	0.01	<10	<10	14	<10	16
W639969		<20	0.01	<10	<10	12	10	15
W639970		<20	<0.01	<10	<10	<1	<10	2
W639971		<20	0.04	<10	<10	25	<10	13
W639972		<20	0.05	<10	<10	25	60	13
W639973		<20	0.01	<10	<10	18	10	13
W639974		<20	<0.01	<10	<10	11	<10	12
W639975		<20	<0.01	<10	<10	20	10	18
W639976		<20	0.02	<10	<10	24	<10	20
W639977		<20	0.03	<10	<10	26	<10	14
W639978		<20	0.04	<10	<10	24	10	14
W639979		<20	0.02	<10	<10	20	10	17
W639980		<20	0.14	<10	<10	61	10	56
W639981		<20	0.05	<10	<10	27	<10	15
W639982		<20	0.04	<10	<10	28	<10	13
W639983		<20	0.04	<10	<10	26	<10	14
W639984		<20	0.07	<10	<10	32	<10	16
W639985		<20	0.09	<10	<10	28	<10	17
W639986		<20	0.10	<10	<10	31	20	18

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W639987		5.72	0.013	<0.2	1.24	8	<10	260	<0.5	3	0.94	<0.5	6	5	132	2.57
W639988		5.65	0.046	0.2	1.50	184	<10	160	0.6	3	1.46	<0.5	15	49	325	4.14
W639989		5.23	0.090	0.2	0.82	461	<10	120	<0.5	14	2.79	<0.5	8	6	204	2.10
W639990		0.38	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	4	0.13
W639991		5.44	0.049	0.2	0.93	11	<10	200	<0.5	<2	0.87	<0.5	7	8	244	1.99
W639992		5.58	0.027	<0.2	1.28	7	<10	130	0.5	<2	1.12	<0.5	8	6	320	2.31
W639993		6.15	0.013	<0.2	1.29	6	<10	230	<0.5	<2	0.93	<0.5	7	5	217	2.32
W639994		5.27	0.057	0.3	1.07	213	<10	150	<0.5	<2	0.99	<0.5	8	4	366	2.28
W639995		4.43	0.060	0.5	0.97	10	<10	230	<0.5	2	0.94	<0.5	11	5	495	2.37
W639996		3.21	0.040	0.2	1.20	5	<10	150	<0.5	<2	0.98	<0.5	11	6	376	2.68
W639997		4.13	0.020	0.3	1.09	4	<10	330	<0.5	<2	0.59	<0.5	7	6	316	2.28
W639998		5.43	0.022	<0.2	0.97	10	<10	260	<0.5	<2	0.74	<0.5	7	5	232	2.23
W639999		4.24	0.020	<0.2	1.10	4	<10	330	<0.5	<2	0.78	<0.5	8	5	227	2.46
W640000		0.07	0.271	0.8	1.44	6	<10	110	<0.5	<2	0.83	0.5	11	26	3080	2.88
W640001		5.46	0.043	0.3	1.02	106	<10	140	<0.5	<2	1.23	<0.5	9	5	370	2.30
W640002		6.09	0.040	<0.2	1.08	77	<10	180	<0.5	<2	1.39	<0.5	6	5	234	2.22
W640003		5.60	0.035	0.2	1.12	146	<10	100	0.7	<2	2.20	<0.5	7	3	270	2.18
W640004		6.42	0.022	<0.2	1.10	787	<10	140	0.7	<2	3.80	<0.5	6	3	210	1.85
W640005		5.83	0.037	0.2	0.91	786	<10	80	0.6	3	1.64	<0.5	8	3	335	2.01
W640006		5.87	0.053	0.2	0.90	265	<10	160	<0.5	<2	1.14	<0.5	7	4	256	1.99
W640007		3.68	0.051	0.3	0.81	9	<10	160	<0.5	<2	0.75	<0.5	6	5	310	1.56
W640008		4.66	0.039	0.4	0.68	9	<10	120	<0.5	2	0.84	<0.5	5	7	337	1.47
W640009		2.92	0.048	0.2	0.76	196	<10	70	0.5	3	0.81	<0.5	9	3	286	1.49
W640010		0.39	0.007	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	11	0.12
W640011		3.28	0.043	<0.2	1.01	336	<10	80	0.7	<2	1.62	<0.5	9	16	227	1.97
W640012		4.33	0.033	<0.2	0.87	30	<10	50	0.6	<2	1.03	<0.5	3	36	84	1.00
W640013		3.79	0.049	<0.2	0.67	46	<10	60	0.6	<2	1.04	<0.5	3	24	121	0.85
W640014		4.90	0.086	<0.2	0.79	166	<10	60	0.7	6	1.67	<0.5	2	24	41	0.71
W640015		4.35	0.044	<0.2	1.81	1095	<10	50	0.9	<2	2.39	<0.5	9	31	235	2.89
W640016		3.60	0.018	<0.2	1.17	42	<10	50	0.7	<2	0.75	<0.5	3	25	69	0.93
W640017		2.70	0.009	<0.2	0.79	179	<10	50	0.5	<2	1.43	<0.5	5	36	85	1.15
W640018		3.69	0.024	<0.2	0.93	210	<10	80	0.6	<2	1.11	<0.5	6	5	136	1.53
W640019		6.89	0.065	0.2	0.84	466	<10	90	0.6	<2	1.33	<0.5	6	4	244	1.92
W640020		0.07	0.300	1.4	1.49	7	<10	120	<0.5	3	0.87	0.7	11	27	3110	2.93
W640021		5.52	0.087	<0.2	0.81	1055	<10	80	0.5	<2	2.21	<0.5	6	3	222	2.00
W640022		5.42	0.028	<0.2	1.06	15	<10	90	0.5	<2	1.80	<0.5	6	3	191	1.84
W640023		5.29	0.076	0.3	0.94	65	<10	80	0.5	<2	0.88	<0.5	10	4	381	2.27
W640024		6.28	0.077	0.4	0.80	102	<10	80	0.6	<2	1.23	<0.5	9	3	435	2.21
W640025		5.58	0.048	0.2	0.59	161	<10	70	0.7	<2	1.23	<0.5	6	2	319	1.59
W640026		5.77	0.076	0.3	0.77	85	<10	80	0.8	<2	2.73	<0.5	8	1	397	2.03

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W639987		10	<1	0.33	40	0.61	119	1	0.13	2	770	4	0.58	<2	3	73
W639988		10	<1	0.56	20	1.07	213	4	0.10	15	680	3	1.13	<2	9	109
W639989		<10	1	0.16	50	0.38	114	10	0.05	2	570	4	0.72	6	2	149
W639990		<10	<1	<0.01	<10	0.91	122	<1	0.01	<1	70	<2	<0.01	<2	<1	78
W639991		10	<1	0.20	40	0.45	87	1	0.09	3	610	5	0.63	<2	2	63
W639992		10	<1	0.24	30	0.57	93	2	0.13	3	730	6	0.79	<2	3	77
W639993		10	<1	0.33	30	0.64	105	3	0.12	3	760	5	0.72	<2	4	74
W639994		10	<1	0.24	40	0.63	96	1	0.07	3	780	8	0.89	13	3	71
W639995		10	<1	0.26	40	0.55	88	2	0.09	4	770	8	1.01	2	3	55
W639996		10	<1	0.31	20	0.68	100	2	0.11	4	810	5	1.03	<2	3	62
W639997		10	1	0.43	40	0.67	98	2	0.11	3	760	5	0.73	<2	4	55
W639998		10	<1	0.33	40	0.56	101	<1	0.09	3	680	5	0.66	3	3	54
W639999		10	<1	0.36	40	0.62	112	1	0.11	3	740	5	0.78	<2	4	55
W640000		10	<1	0.19	10	0.67	420	244	0.09	23	620	9	0.45	2	5	43
W640001		10	<1	0.25	30	0.57	97	2	0.08	3	780	6	0.87	3	3	59
W640002		10	<1	0.34	30	0.59	101	1	0.08	3	820	5	0.60	2	3	97
W640003		10	<1	0.16	40	0.52	99	1	0.05	2	750	7	0.74	<2	3	179
W640004		10	1	0.15	50	0.44	109	<1	0.05	3	690	6	0.58	8	2	206
W640005		<10	1	0.16	30	0.47	106	1	0.05	3	740	6	0.74	10	2	116
W640006		10	<1	0.28	40	0.48	93	2	0.08	4	670	4	0.69	4	3	74
W640007		<10	1	0.26	30	0.30	61	1	0.11	4	540	2	0.58	2	3	48
W640008		10	<1	0.27	30	0.38	65	2	0.12	5	580	2	0.49	2	4	48
W640009		<10	<1	0.21	30	0.33	48	1	0.06	7	550	2	0.87	21	2	70
W640010		<10	<1	0.01	<10	1.51	126	<1	0.01	<1	70	<2	0.02	<2	<1	84
W640011		10	1	0.26	50	0.46	78	1	0.06	14	500	3	0.85	15	4	112
W640012		<10	<1	0.24	20	0.35	58	10	0.06	16	520	2	0.27	3	5	70
W640013		<10	<1	0.16	20	0.26	44	3	0.06	8	380	3	0.30	3	3	75
W640014		<10	<1	0.23	30	0.23	51	1	0.06	12	490	4	0.21	5	3	107
W640015		10	1	0.85	50	1.21	123	7	0.04	18	400	4	0.80	29	9	133
W640016		10	1	0.32	30	0.41	54	1	0.05	10	550	2	0.20	2	3	85
W640017		<10	1	0.23	40	0.29	74	1	0.07	15	390	3	0.38	6	4	77
W640018		<10	<1	0.19	30	0.34	78	57	0.07	4	620	3	0.63	7	2	84
W640019		<10	<1	0.16	40	0.34	79	10	0.05	3	570	4	0.87	3	2	98
W640020		10	<1	0.19	10	0.69	432	254	0.09	23	650	8	0.45	5	5	44
W640021		10	<1	0.14	30	0.43	100	17	0.05	2	620	5	0.86	7	1	108
W640022		10	<1	0.23	30	0.45	89	6	0.09	2	740	3	0.70	<2	2	94
W640023		10	<1	0.17	40	0.55	89	11	0.08	3	620	3	1.07	<2	2	65
W640024		<10	<1	0.16	70	0.47	89	6	0.06	3	390	5	1.08	3	1	86
W640025		<10	<1	0.18	30	0.41	102	10	0.02	4	470	5	0.49	13	2	188
W640026		<10	<1	0.20	40	0.93	159	11	0.02	3	790	6	0.57	16	3	254

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W639987		<20	0.14	<10	<10	31	<10	14
W639988		<20	0.14	<10	<10	78	<10	27
W639989		<20	0.01	<10	<10	22	<10	12
W639990		<20	<0.01	<10	<10	<1	<10	7
W639991		<20	0.06	<10	<10	27	<10	16
W639992		<20	0.08	<10	<10	30	<10	18
W639993		<20	0.12	<10	<10	31	<10	15
W639994		<20	0.06	<10	<10	26	<10	20
W639995		<20	0.08	<10	<10	24	10	23
W639996		<20	0.12	<10	<10	32	<10	21
W639997		<20	0.16	<10	<10	29	<10	19
W639998		<20	0.10	<10	<10	23	<10	16
W639999		<20	0.13	<10	<10	26	10	18
W640000		<20	0.12	<10	<10	57	10	53
W640001		<20	0.04	<10	<10	25	<10	23
W640002		<20	0.06	<10	<10	26	<10	16
W640003		<20	0.01	<10	<10	19	10	17
W640004		<20	0.01	<10	<10	18	<10	15
W640005		<20	0.01	<10	<10	15	<10	18
W640006		<20	0.03	<10	<10	20	<10	14
W640007		<20	0.04	<10	<10	28	<10	10
W640008		20	0.04	<10	<10	26	<10	14
W640009		20	0.02	<10	<10	24	<10	10
W640010		<20	<0.01	<10	<10	<1	<10	<2
W640011		20	0.03	<10	<10	37	20	10
W640012		20	0.02	<10	<10	40	10	9
W640013		20	0.01	<10	<10	21	40	10
W640014		20	0.01	<10	<10	19	<10	10
W640015		20	0.07	<10	<10	49	20	20
W640016		20	0.02	<10	<10	22	10	7
W640017		20	0.02	<10	<10	30	<10	7
W640018		20	0.01	<10	<10	18	10	9
W640019		<20	<0.01	<10	<10	16	<10	13
W640020		<20	0.13	<10	<10	59	10	56
W640021		<20	<0.01	<10	<10	15	<10	13
W640022		<20	0.01	<10	<10	18	<10	14
W640023		<20	0.01	<10	<10	20	30	17
W640024		30	<0.01	<10	<10	13	<10	18
W640025		20	<0.01	<10	<10	8	<10	16
W640026		<20	<0.01	<10	<10	7	<10	23

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W640027		4.61	0.131	0.5	0.66	277	<10	160	0.7	5	1.61	<0.5	6	1	349	1.78
W640028		6.44	0.040	0.4	0.90	127	<10	310	0.8	<2	1.89	<0.5	7	1	310	2.34
W640029		4.88	0.035	0.5	0.70	149	<10	340	0.7	3	1.45	<0.5	7	<1	330	1.89
W640030		0.42	<0.005	<0.2	0.05	2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	4	0.09
W640031		5.95	0.040	0.5	0.79	102	<10	160	0.8	<2	1.52	<0.5	7	1	388	2.10
W640032		5.53	0.030	0.5	0.76	197	<10	230	0.6	<2	1.44	<0.5	6	1	305	2.17
W640033		5.16	0.030	0.5	0.85	224	<10	480	0.7	<2	1.75	<0.5	7	2	409	2.24
W640034		5.50	0.058	0.6	0.92	20	<10	220	<0.5	<2	1.42	<0.5	6	3	480	1.89
W640035		5.50	0.036	0.4	0.89	9	<10	230	<0.5	<2	1.15	<0.5	7	4	324	2.00
W640036		5.77	0.036	0.3	0.95	4	<10	220	<0.5	<2	0.70	<0.5	5	3	153	2.03
W640037		5.68	0.042	0.4	0.98	8	<10	260	<0.5	2	0.65	<0.5	5	4	218	2.10
W640038		5.80	0.105	0.4	0.98	167	<10	150	0.5	2	2.36	<0.5	8	3	414	2.22
W640039		6.20	0.056	0.3	0.80	22	<10	100	<0.5	<2	1.40	<0.5	11	3	468	2.14
W640040		0.07	0.699	5.0	1.20	26	10	50	<0.5	<2	0.52	5.1	13	20	5270	5.77
W640041		6.46	0.074	0.5	1.10	96	<10	100	0.5	<2	1.22	<0.5	17	3	645	3.42
W640042		5.83	0.038	0.4	0.88	112	<10	150	<0.5	<2	1.30	<0.5	7	3	362	2.22
W640043		6.29	0.020	0.2	1.02	220	<10	140	0.6	<2	1.73	<0.5	6	2	207	2.43
W640044		6.30	0.048	0.4	1.05	1180	<10	130	0.6	<2	2.37	<0.5	6	1	238	2.77
W640045		6.32	0.011	0.3	1.18	131	<10	360	<0.5	<2	1.25	<0.5	6	2	147	2.55
W640046		6.31	0.009	0.2	1.41	10	<10	390	<0.5	<2	0.87	<0.5	6	3	146	2.83
W640047		5.66	0.020	0.5	1.08	28	<10	140	0.5	<2	0.99	<0.5	6	4	252	2.26
W640048		5.67	0.021	0.6	0.99	20	<10	180	<0.5	<2	0.95	<0.5	7	5	321	2.10
W640049		7.07	0.020	0.3	0.92	43	<10	160	<0.5	<2	1.10	<0.5	5	5	183	2.11
W640050		0.30	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
W640051		5.93	0.016	0.2	1.23	36	<10	180	0.5	<2	0.94	<0.5	4	7	112	2.23
W640052		6.25	0.015	0.3	1.12	52	<10	120	0.5	<2	1.07	<0.5	4	3	139	2.04
W640053		5.92	0.018	0.2	0.85	34	<10	210	<0.5	<2	0.71	<0.5	4	3	109	1.76
W640054		6.17	0.234	0.6	0.72	2	<10	180	<0.5	<2	1.14	<0.5	4	5	299	1.53
W640055		6.32	0.036	0.9	0.72	5	<10	170	<0.5	<2	1.43	<0.5	7	8	476	1.77
W640056		4.93	0.024	0.4	0.74	260	<10	180	<0.5	<2	1.71	<0.5	6	3	284	1.69
W640057		7.34	0.019	0.5	1.08	24	<10	80	<0.5	<2	0.80	<0.5	10	33	366	2.43
W640058		6.23	0.019	0.5	1.09	7	<10	110	0.5	<2	0.95	<0.5	9	21	360	2.49
W640059		6.49	0.030	0.4	0.99	9	<10	130	<0.5	<2	0.91	<0.5	4	3	169	1.70
W640060		0.07	0.314	1.3	1.48	5	10	120	<0.5	<2	0.91	0.6	10	27	3170	2.99
W640061		6.22	0.073	0.2	1.01	10	<10	120	<0.5	<2	1.01	<0.5	6	2	167	1.89
W640062		5.79	0.019	0.3	0.93	4	<10	160	<0.5	<2	0.90	<0.5	6	4	179	1.99
W640063		4.13	0.022	<0.2	0.90	27	<10	150	<0.5	<2	0.83	<0.5	6	4	173	1.75
W640064		3.74	0.334	0.3	0.74	90	<10	150	<0.5	110	0.70	<0.5	6	5	203	1.44
W640065		5.02	0.036	<0.2	1.08	16	<10	180	<0.5	2	1.03	<0.5	3	5	98	1.70
W640066		6.42	0.064	<0.2	0.91	9	<10	130	<0.5	4	0.93	<0.5	4	5	133	1.81

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W640027		<10	<1	0.20	30	0.58	133	5	0.01	3	630	8	0.37	21	2	70
W640028		<10	<1	0.14	60	0.69	144	2	0.01	2	780	4	0.69	8	3	188
W640029		<10	<1	0.17	90	0.49	116	2	0.01	2	590	5	0.58	5	2	65
W640030		<10	<1	0.01	<10	1.10	129	<1	<0.01	<1	70	<2	0.01	<2	<1	84
W640031		<10	<1	0.14	80	0.67	119	2	0.01	2	660	5	0.71	7	3	107
W640032		<10	<1	0.12	50	0.34	125	1	<0.01	1	500	6	0.53	21	3	76
W640033		<10	<1	0.16	50	0.62	159	3	0.02	2	620	5	0.54	26	4	91
W640034		<10	<1	0.21	40	0.51	112	1	0.05	2	690	5	0.57	<2	3	63
W640035		<10	<1	0.23	40	0.50	111	1	0.06	1	640	4	0.60	2	3	53
W640036		<10	<1	0.28	40	0.53	113	1	0.07	1	620	4	0.49	<2	3	46
W640037		<10	<1	0.33	30	0.58	108	1	0.07	1	650	3	0.45	<2	3	49
W640038		<10	<1	0.19	40	0.55	115	3	0.05	1	660	2	0.79	5	2	132
W640039		<10	<1	0.18	40	0.44	92	9	0.04	3	710	2	0.95	2	2	61
W640040		<10	<1	0.27	<10	0.38	706	118	0.03	16	490	107	4.07	<2	1	37
W640041		10	<1	0.20	50	0.81	117	2	0.05	3	640	4	1.51	2	2	58
W640042		<10	<1	0.19	30	0.54	116	2	0.06	1	700	4	0.73	4	2	72
W640043		<10	<1	0.21	50	0.49	143	1	0.05	2	950	4	0.62	6	3	123
W640044		<10	<1	0.26	30	0.61	157	1	0.06	1	900	<2	0.76	11	2	128
W640045		<10	<1	0.47	30	0.63	149	1	0.09	2	960	2	0.46	2	2	94
W640046		10	<1	0.65	20	0.83	186	1	0.12	2	1040	2	0.48	<2	3	74
W640047		10	<1	0.19	20	0.58	113	1	0.07	1	730	4	0.67	3	2	65
W640048		<10	<1	0.20	40	0.52	111	2	0.07	3	600	3	0.68	<2	2	60
W640049		10	<1	0.22	30	0.54	120	2	0.06	3	620	3	0.58	2	3	68
W640050		<10	<1	0.01	<10	1.30	108	<1	<0.01	<1	70	<2	<0.01	<2	<1	79
W640051		<10	<1	0.33	30	0.65	142	1	0.08	3	780	<2	0.38	2	4	87
W640052		10	<1	0.21	40	0.53	123	2	0.08	2	780	3	0.48	3	3	107
W640053		<10	<1	0.18	30	0.40	110	5	0.07	1	460	3	0.41	<2	3	61
W640054		<10	<1	0.20	40	0.30	99	10	0.06	3	390	6	0.43	<2	2	60
W640055		<10	<1	0.21	50	0.30	101	7	0.05	4	370	7	0.63	<2	3	62
W640056		<10	<1	0.18	50	0.33	119	9	0.05	3	390	5	0.68	6	2	66
W640057		10	<1	0.23	20	0.56	106	6	0.07	14	160	3	0.93	2	4	51
W640058		10	<1	0.16	40	0.49	107	4	0.08	8	360	3	0.95	<2	3	64
W640059		<10	<1	0.16	30	0.40	104	3	0.09	1	470	3	0.50	<2	1	62
W640060		<10	<1	0.19	10	0.72	443	259	0.08	22	630	7	0.45	2	5	45
W640061		10	<1	0.16	20	0.51	109	2	0.09	1	660	3	0.59	2	2	64
W640062		10	<1	0.18	30	0.56	89	1	0.08	2	680	3	0.64	<2	2	54
W640063		<10	<1	0.19	30	0.47	69	1	0.09	2	580	2	0.61	<2	1	66
W640064		<10	<1	0.15	20	0.34	64	56	0.07	1	420	4	0.56	2	1	69
W640065		10	<1	0.17	30	0.45	109	9	0.11	1	550	3	0.30	<2	2	90
W640066		10	<1	0.13	30	0.44	105	2	0.09	2	510	3	0.48	<2	1	58

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W640027		<20	<0.01	<10	<10	6	<10	24
W640028		20	<0.01	<10	<10	13	<10	21
W640029		20	<0.01	<10	<10	8	<10	20
W640030		<20	<0.01	<10	<10	<1	<10	<2
W640031		20	<0.01	<10	<10	12	<10	19
W640032		<20	<0.01	<10	<10	10	<10	18
W640033		<20	<0.01	<10	<10	15	<10	23
W640034		<20	0.02	<10	<10	20	10	25
W640035		<20	0.04	<10	<10	20	10	19
W640036		<20	0.10	<10	<10	23	10	14
W640037		<20	0.12	<10	<10	25	10	17
W640038		<20	0.02	<10	<10	22	20	21
W640039		<20	0.01	<10	<10	18	80	21
W640040		<20	0.02	<10	<10	23	<10	864
W640041		<20	0.02	<10	<10	30	190	27
W640042		<20	0.04	<10	<10	21	20	19
W640043		<20	0.03	<10	<10	24	<10	19
W640044		<20	0.05	<10	<10	25	<10	16
W640045		<20	0.12	<10	<10	32	10	18
W640046		<20	0.21	<10	<10	40	10	22
W640047		<20	0.07	<10	<10	29	10	18
W640048		<20	0.07	<10	<10	29	250	17
W640049		<20	0.05	<10	<10	30	10	15
W640050		<20	<0.01	<10	<10	<1	<10	<2
W640051		<20	0.11	<10	<10	37	<10	16
W640052		20	0.05	<10	<10	32	<10	15
W640053		20	0.07	<10	<10	13	<10	12
W640054		20	0.03	<10	<10	12	<10	18
W640055		20	0.01	<10	<10	12	10	21
W640056		20	0.01	<10	<10	11	20	19
W640057		<20	0.06	<10	<10	34	10	19
W640058		20	0.06	<10	<10	30	10	17
W640059		20	0.04	<10	<10	20	40	16
W640060		<20	0.14	<10	<10	61	10	57
W640061		<20	0.07	<10	<10	21	<10	17
W640062		<20	0.08	<10	<10	23	<10	16
W640063		<20	0.07	<10	<10	20	<10	12
W640064		<20	0.02	<10	<10	16	60	13
W640065		<20	0.07	<10	<10	21	<10	12
W640066		<20	0.04	<10	<10	25	<10	13

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W640067		5.94	0.220	0.2	1.14	158	<10	100	0.7	62	2.12	<0.5	6	4	186	2.11
W640068		4.82	0.029	0.2	1.62	313	<10	50	0.8	<2	2.88	<0.5	9	8	260	2.71
W640069		2.35	0.031	<0.2	1.85	313	<10	80	1.1	2	2.61	<0.5	10	7	191	2.78
W640070		0.51	<0.005	<0.2	0.06	3	<10	10	<0.5	<2	>25.0	<0.5	1	<1	15	0.21
W640071		5.42	0.061	<0.2	1.29	60	<10	160	0.5	2	1.78	<0.5	11	11	137	3.09
W640072		6.12	0.104	<0.2	1.36	5	<10	150	<0.5	5	1.30	<0.5	10	12	159	2.95
W640073		6.55	0.147	<0.2	1.62	114	<10	170	0.5	4	1.63	<0.5	12	11	185	3.18
W640074		6.08	0.058	0.2	1.42	104	<10	90	<0.5	<2	1.78	<0.5	14	11	356	3.50
W640075		6.38	0.020	0.2	0.75	51	<10	50	<0.5	<2	1.11	<0.5	7	7	218	1.74
W640076		5.45	0.056	0.3	1.43	10	<10	80	<0.5	3	1.27	<0.5	13	14	342	3.30
W640077		5.54	0.027	<0.2	1.36	89	<10	90	0.5	2	1.38	<0.5	10	11	196	2.86
W640078		5.85	0.021	<0.2	1.44	9	<10	100	<0.5	2	1.25	<0.5	11	12	167	2.96
W640079		5.21	0.029	<0.2	1.60	13	<10	80	0.5	3	1.51	<0.5	11	12	182	3.24
W640080		0.06	0.714	4.9	1.31	26	<10	50	<0.5	2	0.54	4.9	14	20	5030	5.66
W640081		5.34	0.013	<0.2	1.33	3	<10	130	<0.5	<2	1.23	<0.5	9	10	129	2.61
W640082		5.57	0.013	<0.2	1.33	5	<10	170	<0.5	<2	1.10	<0.5	10	11	127	2.62
W640083		5.44	0.118	0.2	1.28	278	<10	70	0.6	6	2.36	<0.5	12	8	311	3.23
W640084		6.31	0.036	<0.2	1.54	290	<10	90	0.6	2	1.87	<0.5	13	9	310	3.29
W640085		6.11	0.027	0.2	1.56	134	<10	80	0.5	<2	1.95	<0.5	9	14	237	3.02
W640086		5.75	0.021	<0.2	1.51	4	<10	110	0.5	<2	1.20	<0.5	9	12	144	2.96
W640087		5.48	0.012	<0.2	1.61	4	<10	90	0.5	<2	1.22	<0.5	11	12	251	3.20
W640088		6.20	0.042	<0.2	1.50	8	<10	100	<0.5	3	1.25	<0.5	10	12	179	3.06
W640089		6.04	0.005	<0.2	1.51	11	<10	120	<0.5	<2	1.40	<0.5	7	12	132	2.99
W640090		0.25	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	4	0.15
W640091		6.11	0.023	<0.2	1.92	63	<10	100	0.7	<2	2.83	<0.5	9	10	157	2.86
W640092		6.68	0.082	<0.2	1.40	40	<10	110	<0.5	<2	1.15	<0.5	10	10	197	2.75
W640093		5.88	0.014	<0.2	1.26	8	<10	50	<0.5	<2	0.93	<0.5	12	11	266	3.01
W640094		5.41	0.023	0.2	1.60	453	<10	80	0.7	<2	1.35	<0.5	11	10	275	3.08
W640095		5.39	0.067	0.5	1.26	300	<10	50	0.9	<2	2.52	<0.5	11	6	407	2.99
W640096		5.58	0.035	0.3	1.21	234	<10	130	1.0	3	2.53	<0.5	13	5	339	2.90
W640097		5.97	0.014	<0.2	1.44	39	<10	120	<0.5	2	1.29	<0.5	10	11	204	2.96
W640098		6.12	0.016	<0.2	1.61	12	<10	80	0.5	<2	1.71	<0.5	11	11	177	3.22
W640099		6.04	0.012	<0.2	1.54	39	<10	70	0.7	<2	2.45	<0.5	8	10	117	2.98
W640100		0.07	0.277	0.8	1.44	5	<10	110	<0.5	<2	0.88	0.5	11	27	3210	3.08
W640101		5.96	0.024	0.3	1.38	16	<10	90	0.5	3	1.54	<0.5	11	12	231	3.27
W640102		5.84	0.020	0.5	1.43	6	<10	100	<0.5	<2	1.56	<0.5	12	12	322	3.29
W640103		6.52	0.009	<0.2	1.28	<2	<10	200	<0.5	2	0.86	<0.5	7	10	112	2.58
W640104		6.01	0.043	0.3	1.29	4	<10	120	<0.5	3	1.73	<0.5	9	10	213	2.81
W640105		6.16	0.064	0.5	1.43	6	<10	90	<0.5	24	1.27	<0.5	12	11	334	3.45
W640106		4.60	0.187	0.3	1.34	4	<10	90	<0.5	36	1.22	<0.5	12	12	272	3.45

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Project: Freegold Mountain

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W640067		10	<1	0.14	30	0.51	143	1	0.05	2	630	6	0.64	4	3	144
W640068		10	<1	0.28	20	0.91	222	2	0.07	5	920	4	0.65	4	6	244
W640069		10	<1	0.32	30	0.92	248	1	0.09	5	890	6	0.68	5	6	334
W640070		<10	1	0.01	<10	0.77	137	<1	0.02	<1	80	<2	0.10	<2	<1	91
W640071		10	<1	0.43	20	0.82	289	2	0.11	6	900	3	0.52	<2	7	120
W640072		10	<1	0.50	20	0.94	220	1	0.13	6	960	3	0.56	<2	6	71
W640073		10	<1	0.49	20	0.99	255	1	0.11	6	1020	5	0.58	<2	7	142
W640074		10	<1	0.55	20	1.11	238	2	0.09	7	1000	4	0.99	2	9	88
W640075		<10	<1	0.23	10	0.40	132	2	0.07	2	370	6	0.51	16	2	49
W640076		10	<1	0.43	10	0.98	189	5	0.10	7	870	4	0.99	<2	6	69
W640077		10	<1	0.35	20	0.82	204	1	0.10	5	790	3	0.68	<2	6	98
W640078		10	<1	0.49	20	0.93	196	1	0.13	7	910	2	0.65	<2	6	77
W640079		10	<1	0.41	20	1.04	207	<1	0.09	7	950	2	0.66	<2	6	116
W640080		<10	<1	0.28	<10	0.36	695	107	0.05	16	490	107	4.08	2	2	38
W640081		10	<1	0.43	20	0.95	221	2	0.12	5	820	3	0.43	<2	5	84
W640082		10	<1	0.46	20	0.88	217	<1	0.14	5	850	2	0.49	<2	5	77
W640083		10	<1	0.28	20	1.09	278	2	0.06	6	940	5	0.80	3	7	131
W640084		10	<1	0.40	20	1.02	231	4	0.08	6	940	4	0.90	3	7	159
W640085		10	<1	0.51	20	1.06	230	3	0.09	6	900	4	0.68	2	7	139
W640086		10	<1	0.53	20	1.06	187	1	0.10	6	920	2	0.51	<2	6	76
W640087		10	<1	0.49	20	1.12	187	2	0.11	6	960	3	0.73	<2	6	103
W640088		10	<1	0.52	20	1.06	199	<1	0.12	6	960	3	0.60	<2	6	83
W640089		10	<1	0.50	20	1.02	214	3	0.12	6	990	3	0.49	<2	6	106
W640090		<10	1	0.01	<10	1.45	143	<1	0.02	<1	70	<2	0.04	<2	<1	90
W640091		10	<1	0.38	20	1.02	272	<1	0.10	5	870	5	0.53	<2	5	318
W640092		10	<1	0.42	20	0.97	181	2	0.10	6	890	4	0.69	<2	5	74
W640093		10	<1	0.44	20	1.05	125	1	0.06	6	900	2	0.96	<2	5	49
W640094		10	<1	0.45	20	1.03	142	1	0.10	6	930	4	0.91	7	6	99
W640095		<10	<1	0.19	20	0.98	192	2	0.04	6	970	6	0.84	11	7	170
W640096		<10	<1	0.21	20	0.95	171	1	0.04	6	910	4	0.87	26	7	174
W640097		10	<1	0.49	20	0.97	203	1	0.13	6	950	3	0.63	<2	6	97
W640098		10	<1	0.36	20	1.06	213	<1	0.11	6	920	3	0.66	<2	6	102
W640099		10	<1	0.34	20	1.00	267	<1	0.08	6	950	6	0.40	2	6	241
W640100		10	<1	0.19	10	0.73	456	230	0.09	24	630	10	0.45	2	5	43
W640101		10	<1	0.46	20	1.04	234	1	0.10	7	950	4	0.70	3	7	127
W640102		10	<1	0.47	20	1.10	227	1	0.11	7	920	7	0.75	<2	7	88
W640103		10	<1	0.42	10	0.94	202	1	0.13	6	950	3	0.36	<2	4	63
W640104		10	<1	0.43	20	0.94	238	<1	0.11	6	880	5	0.52	<2	5	120
W640105		10	<1	0.47	20	1.03	199	39	0.11	7	890	4	0.89	2	6	106
W640106		10	<1	0.52	20	1.05	179	2	0.10	7	890	5	0.91	3	6	74

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W640067		<20	0.01	<10	<10	30	<10	13
W640068		<20	0.02	<10	<10	53	<10	24
W640069		<20	0.03	<10	<10	53	<10	22
W640070		<20	<0.01	<10	<10	1	<10	2
W640071		<20	0.09	<10	<10	68	<10	24
W640072		<20	0.17	<10	<10	75	10	20
W640073		<20	0.13	<10	<10	82	30	26
W640074		50	0.12	<10	10	83	20	33
W640075		20	0.02	<10	20	27	<10	17
W640076		<20	0.10	<10	<10	72	10	23
W640077		<20	0.08	<10	<10	60	10	18
W640078		<20	0.15	<10	<10	69	10	18
W640079		<20	0.09	<10	<10	71	<10	18
W640080		<20	0.03	<10	<10	23	<10	811
W640081		<20	0.14	<10	<10	66	<10	18
W640082		<20	0.16	<10	<10	71	<10	18
W640083		<20	0.03	<10	<10	56	30	22
W640084		<20	0.05	<10	<10	63	20	21
W640085		<20	0.06	<10	<10	64	10	21
W640086		<20	0.16	<10	<10	73	<10	18
W640087		<20	0.12	<10	<10	77	10	20
W640088		<20	0.16	<10	<10	79	10	20
W640089		<20	0.16	<10	<10	78	<10	20
W640090		<20	<0.01	<10	<10	1	<10	<2
W640091		<20	0.05	<10	<10	65	<10	19
W640092		<20	0.14	<10	<10	68	<10	18
W640093		<20	0.11	<10	<10	73	<10	16
W640094		<20	0.08	<10	<10	70	<10	19
W640095		<20	0.01	<10	<10	45	<10	26
W640096		<20	0.01	<10	<10	40	<10	23
W640097		<20	0.15	<10	<10	72	<10	18
W640098		<20	0.08	<10	<10	74	<10	18
W640099		<20	0.04	<10	<10	67	<10	23
W640100		<20	0.13	<10	<10	58	10	57
W640101		<20	0.09	<10	<10	72	10	24
W640102		<20	0.14	<10	<10	75	<10	24
W640103		<20	0.18	<10	<10	63	10	16
W640104		<20	0.11	<10	<10	63	<10	19
W640105		<20	0.10	<10	<10	86	<10	22
W640106		<20	0.11	<10	<10	74	10	18

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191963

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:			
CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	
Au- AA23	ME- ICP41

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SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17191964

Project: Freegold Mountain

P.O. No.: 1005139- - NOFREG- - R1

This report is for 48 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- SEP- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W640401		5.61	<0.005	0.4	0.66	845	<10	130	<0.5	2	0.69	<0.5	4	4	92	1.98
W640402		6.52	0.008	<0.2	0.77	138	<10	160	<0.5	<2	0.76	<0.5	4	5	63	1.99
W640403		5.90	<0.005	<0.2	0.78	198	<10	150	<0.5	<2	0.81	<0.5	4	6	37	1.84
W640404		6.09	<0.005	<0.2	0.82	19	<10	110	<0.5	<2	1.21	<0.5	4	6	67	1.79
W640405		6.13	<0.005	<0.2	0.76	28	<10	80	<0.5	3	0.77	1.3	4	6	58	1.58
W640406		5.76	<0.005	<0.2	0.96	113	<10	150	<0.5	<2	0.77	<0.5	5	8	53	2.04
W640407		6.02	0.012	0.5	0.79	438	<10	90	<0.5	4	1.01	<0.5	5	6	122	2.12
W640408		5.81	<0.005	0.2	0.89	441	<10	130	<0.5	4	0.92	<0.5	5	7	79	2.16
W640409		5.80	<0.005	0.7	0.78	572	<10	100	<0.5	28	0.66	<0.5	5	5	132	2.42
W640410		0.56	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	3	0.10
W640411		5.55	<0.005	0.5	0.85	600	<10	90	<0.5	15	0.56	<0.5	5	4	139	2.36
W640412		5.42	0.005	1.8	0.72	85	<10	70	0.5	49	0.33	<0.5	7	3	212	3.50
W640413		5.37	<0.005	0.3	0.70	25	<10	80	0.5	<2	0.56	<0.5	5	3	90	1.92
W640414		5.36	0.009	1.6	0.48	212	<10	50	0.5	12	0.72	<0.5	6	2	138	2.91
W640415		6.25	<0.005	0.4	0.51	89	<10	80	<0.5	5	1.01	<0.5	7	2	180	3.39
W640416		5.81	0.016	0.4	0.40	942	<10	70	<0.5	22	0.55	<0.5	8	1	312	5.77
W640417		6.16	0.007	0.3	0.42	199	<10	70	<0.5	10	0.62	<0.5	8	1	260	5.03
W640418		5.80	<0.005	0.3	0.42	344	<10	60	<0.5	9	0.67	<0.5	8	1	244	4.90
W640419		5.99	<0.005	<0.2	0.42	114	<10	70	<0.5	10	0.72	<0.5	6	1	222	4.60
W640420		0.06	0.351	0.9	1.52	5	<10	120	<0.5	<2	0.90	<0.5	11	29	3250	3.07
W640421		5.86	0.008	0.4	0.41	88	<10	70	<0.5	20	0.75	<0.5	7	1	239	4.76
W640422		6.46	<0.005	0.2	0.46	135	<10	60	<0.5	5	1.54	<0.5	6	2	174	3.82
W640423		6.31	0.083	1.6	0.42	203	<10	50	<0.5	31	0.85	<0.5	9	2	204	3.86
W640424		5.82	0.010	1.9	0.49	24	<10	70	<0.5	50	1.14	<0.5	6	2	119	2.53
W640425		3.45	0.017	1.8	0.41	45	<10	60	<0.5	226	1.32	<0.5	5	2	160	3.16
W640426		6.00	<0.005	0.4	0.39	42	<10	60	<0.5	12	0.89	<0.5	6	1	264	4.69
W640427		6.22	<0.005	0.7	0.43	325	<10	70	<0.5	26	0.68	<0.5	8	1	308	5.40
W640428		5.66	<0.005	0.9	0.40	16	<10	70	<0.5	7	0.86	<0.5	6	2	195	3.84
W640429		5.96	<0.005	0.3	0.48	35	<10	110	<0.5	<2	1.36	<0.5	6	2	105	2.42
W640430		0.49	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	2	0.10
W640431		4.77	<0.005	1.3	0.61	27	<10	80	0.6	12	0.82	<0.5	8	4	135	3.21
W640432		5.96	<0.005	0.4	0.58	15	<10	120	<0.5	8	1.27	<0.5	6	6	104	2.45
W640433		5.77	<0.005	0.2	0.72	5	<10	90	<0.5	5	1.20	<0.5	6	6	91	2.35
W640434		6.13	<0.005	0.3	0.83	23	<10	80	<0.5	3	1.42	<0.5	6	5	83	2.18
W640435		5.43	<0.005	0.4	0.73	81	<10	70	0.7	2	1.46	<0.5	6	3	96	2.24
W640436		5.98	<0.005	0.8	0.48	30	<10	80	0.5	7	1.37	<0.5	6	4	112	2.36
W640437		6.00	<0.005	1.6	0.36	28	<10	120	<0.5	13	0.81	<0.5	9	4	188	3.49
W640438		6.12	0.016	1.8	0.35	60	<10	90	<0.5	16	0.99	0.6	7	4	166	3.45
W640439		6.24	0.039	0.5	0.62	86	<10	100	<0.5	6	1.22	<0.5	6	5	95	2.49
W640440		0.06	0.257	0.9	1.47	6	<10	120	<0.5	3	0.90	<0.5	11	28	3130	3.00

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W640401		<10	<1	0.16	40	0.35	132	1	0.04	2	430	4	0.93	5	1	34
W640402		<10	1	0.18	50	0.38	156	1	0.06	3	450	3	0.64	<2	2	33
W640403		<10	1	0.18	50	0.40	155	<1	0.06	2	490	4	0.46	2	2	32
W640404		<10	1	0.19	30	0.42	139	<1	0.05	2	490	4	0.60	3	2	39
W640405		<10	<1	0.16	20	0.39	130	<1	0.04	3	430	4	0.51	3	2	36
W640406		<10	1	0.22	20	0.52	175	<1	0.08	3	580	4	0.52	<2	3	33
W640407		<10	<1	0.17	30	0.45	161	<1	0.05	2	550	5	0.89	3	2	34
W640408		<10	1	0.22	30	0.48	178	<1	0.06	2	570	2	0.76	2	2	40
W640409		<10	<1	0.20	20	0.42	142	<1	0.03	3	580	2	1.16	3	1	37
W640410		<10	<1	0.01	<10	1.28	137	<1	0.01	<1	80	<2	0.01	<2	<1	82
W640411		<10	1	0.20	20	0.43	140	<1	0.03	2	640	2	1.06	4	1	33
W640412		<10	1	0.24	20	0.28	195	<1	0.01	3	640	7	1.89	5	1	16
W640413		<10	<1	0.21	30	0.21	201	<1	0.01	3	660	3	0.72	3	1	23
W640414		<10	1	0.20	20	0.27	317	<1	0.01	2	640	5	1.35	5	1	21
W640415		<10	<1	0.37	10	0.28	377	1	0.01	2	870	2	2.07	13	1	24
W640416		<10	<1	0.33	10	0.17	271	1	0.01	1	790	4	3.94	18	1	22
W640417		<10	<1	0.33	10	0.18	247	1	0.01	1	810	4	3.63	11	1	19
W640418		<10	1	0.32	10	0.22	337	1	0.01	2	800	5	3.21	12	1	24
W640419		<10	1	0.34	10	0.25	311	2	0.01	2	830	5	2.96	19	1	25
W640420		10	1	0.20	10	0.75	454	265	0.09	24	650	9	0.47	7	5	45
W640421		<10	<1	0.33	10	0.26	345	2	0.01	1	810	4	3.06	22	1	22
W640422		<10	<1	0.32	10	0.38	450	2	0.01	2	850	4	2.25	13	1	28
W640423		<10	1	0.28	10	0.26	319	1	0.01	2	770	9	2.62	9	1	26
W640424		<10	<1	0.34	20	0.31	424	1	0.01	2	870	6	1.34	6	1	25
W640425		<10	<1	0.32	10	0.36	433	2	0.01	3	870	9	1.91	9	1	39
W640426		<10	<1	0.33	10	0.26	328	2	0.01	3	820	4	2.88	6	1	37
W640427		<10	<1	0.36	10	0.22	257	1	0.01	1	800	6	3.39	8	1	30
W640428		<10	1	0.33	10	0.27	319	2	0.01	2	860	5	2.49	4	1	32
W640429		<10	<1	0.32	20	0.32	418	1	0.01	2	890	3	1.08	6	1	31
W640430		<10	<1	0.01	<10	2.12	124	<1	0.01	<1	80	<2	<0.01	5	<1	76
W640431		<10	<1	0.19	30	0.37	336	2	0.01	4	710	3	1.52	6	2	34
W640432		<10	1	0.25	30	0.41	213	1	0.05	3	660	3	1.10	2	2	63
W640433		<10	<1	0.21	30	0.45	184	1	0.05	3	640	2	0.93	2	2	57
W640434		<10	<1	0.17	30	0.56	196	3	0.03	3	650	4	0.78	2	2	66
W640435		<10	<1	0.18	30	0.46	248	5	0.01	3	710	4	0.91	8	2	75
W640436		<10	<1	0.20	20	0.34	235	<1	0.03	3	600	2	1.13	6	1	65
W640437		<10	<1	0.22	20	0.32	228	<1	0.04	2	570	4	1.91	4	1	60
W640438		<10	<1	0.23	20	0.33	278	<1	0.03	3	620	5	1.93	2	1	61
W640439		<10	<1	0.22	30	0.45	224	<1	0.04	3	630	3	1.15	2	2	57
W640440		<10	<1	0.19	10	0.70	448	247	0.09	23	640	9	0.46	2	5	44

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W640401		20	<0.01	<10	<10	13	<10	9
W640402		20	0.02	<10	<10	19	<10	11
W640403		20	0.03	<10	<10	21	<10	10
W640404		20	0.01	<10	<10	19	<10	14
W640405		20	<0.01	<10	10	19	<10	108
W640406		20	0.04	<10	<10	30	<10	14
W640407		20	0.01	<10	<10	22	<10	12
W640408		20	0.02	<10	<10	25	<10	12
W640409		20	<0.01	<10	<10	15	<10	10
W640410		<20	<0.01	<10	<10	<1	<10	<2
W640411		20	<0.01	<10	<10	17	<10	12
W640412		20	<0.01	<10	<10	11	<10	9
W640413		20	<0.01	<10	<10	10	<10	10
W640414		20	<0.01	<10	<10	8	<10	8
W640415		<20	<0.01	<10	<10	4	<10	12
W640416		<20	<0.01	<10	<10	3	<10	5
W640417		<20	<0.01	<10	<10	4	<10	5
W640418		<20	<0.01	<10	<10	4	<10	16
W640419		<20	<0.01	<10	10	4	<10	8
W640420		<20	0.13	<10	<10	62	10	57
W640421		<20	<0.01	<10	<10	4	<10	9
W640422		<20	<0.01	<10	<10	5	<10	10
W640423		<20	<0.01	<10	<10	6	<10	9
W640424		<20	<0.01	<10	<10	7	<10	10
W640425		<20	<0.01	<10	<10	6	<10	9
W640426		<20	<0.01	<10	<10	4	<10	8
W640427		<20	<0.01	<10	<10	3	<10	10
W640428		<20	<0.01	<10	<10	5	<10	10
W640429		<20	<0.01	<10	<10	8	<10	13
W640430		<20	<0.01	<10	<10	<1	<10	<2
W640431		20	<0.01	<10	<10	14	<10	15
W640432		<20	<0.01	<10	<10	17	<10	14
W640433		20	<0.01	<10	<10	23	<10	14
W640434		20	<0.01	<10	<10	24	<10	14
W640435		20	<0.01	<10	<10	14	<10	13
W640436		<20	<0.01	<10	<10	14	<10	15
W640437		<20	<0.01	<10	<10	13	<10	25
W640438		<20	<0.01	<10	<10	11	<10	44
W640439		20	<0.01	<10	<10	19	<10	22
W640440		<20	0.13	<10	<10	59	10	56

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W640441		5.57	<0.005	0.2	0.72	12	<10	140	<0.5	2	0.91	<0.5	6	5	76	2.11
W640442		6.03	<0.005	0.3	0.65	13	<10	110	<0.5	3	0.74	<0.5	5	5	77	2.08
W640443		6.26	<0.005	0.9	0.36	25	<10	110	<0.5	9	1.58	0.5	7	4	106	2.42
W640444		5.88	<0.005	0.4	0.47	15	<10	120	<0.5	5	1.16	<0.5	5	5	81	2.10
W640445		6.53	<0.005	0.8	0.33	72	<10	140	<0.5	6	1.11	<0.5	7	4	121	2.65
W640446		5.95	<0.005	0.5	0.40	20	<10	130	<0.5	9	1.63	<0.5	6	3	88	2.02
W640447		4.71	0.021	1.0	0.38	132	<10	160	<0.5	44	1.78	<0.5	6	3	109	2.27
W640448		3.61	<0.005	0.4	0.44	15	<10	130	<0.5	16	1.73	<0.5	6	3	99	2.28

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W640441		<10	<1	0.17	30	0.43	181	1	0.04	5	630	2	0.76	2	2	46
W640442		<10	<1	0.20	30	0.39	192	<1	0.04	3	620	2	0.79	<2	2	43
W640443		<10	<1	0.20	20	0.35	293	<1	0.04	3	600	2	1.14	4	1	58
W640444		<10	<1	0.21	20	0.34	207	<1	0.04	3	600	3	0.89	5	2	53
W640445		<10	<1	0.21	20	0.37	256	<1	0.03	3	570	2	1.41	6	1	51
W640446		<10	<1	0.22	20	0.28	291	<1	0.03	2	620	2	0.87	5	1	60
W640447		<10	<1	0.23	20	0.37	275	<1	0.03	2	620	4	1.06	2	1	66
W640448		<10	<1	0.24	20	0.37	222	<1	0.04	2	640	<2	0.94	4	1	67

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
W640441		<20	<0.01	<10	<10	22	<10	14
W640442		20	<0.01	<10	<10	20	<10	13
W640443		<20	<0.01	<10	<10	9	<10	52
W640444		20	<0.01	<10	<10	14	<10	15
W640445		<20	<0.01	<10	<10	11	<10	29
W640446		<20	<0.01	<10	<10	10	<10	20
W640447		<20	<0.01	<10	<10	10	<10	17
W640448		<20	<0.01	<10	<10	11	<10	19

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17191964

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU- 31	CRU- QC	LOG- 21	LOG- 23
PUL- 35	PUL- QC	SPL- 21	WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17178150

Project: Freegold Mountain

P.O. No.: 1005139 - - NOFREG- - R1

This report is for 171 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E520697		6.66	0.017	0.7	1.61	83	<10	30	<0.5	24	1.00	0.6	14	27	543	4.27
E520698		6.59	0.028	0.6	1.01	47	<10	20	<0.5	1495	0.65	<0.5	10	11	443	2.91
E520699		6.29	0.016	0.3	0.96	8	<10	20	<0.5	20	0.64	<0.5	9	15	262	2.70
E520700		0.06	4.32	0.7	0.27	374	10	90	<0.5	2	9.6	0.6	5	21	34	1.83
E520701		6.83	0.139	1.4	1.61	24	<10	50	<0.5	42	1.38	0.5	11	28	948	4.07
E520702		6.60	0.111	2.3	0.61	797	<10	10	0.9	199	2.13	0.6	25	7	1560	5.12
E520703		6.50	0.070	0.7	0.43	145	<10	20	0.6	4	1.64	0.7	17	5	725	3.82
E520704		6.36	0.021	0.4	0.47	112	<10	30	0.6	4	2.12	0.8	7	5	314	2.58
E520705		6.42	0.026	0.8	0.57	16	<10	20	0.6	12	1.87	1.9	8	10	451	3.01
E520706		6.51	0.034	0.6	0.66	18	<10	30	0.5	5	1.36	<0.5	9	8	436	3.15
E520707		6.28	0.023	0.3	0.62	79	<10	20	0.6	<2	1.36	<0.5	9	11	344	3.39
E520708		5.94	0.089	0.9	0.53	78	<10	20	0.6	21	2.07	0.5	14	4	799	4.20
E520709		3.17	0.093	1.1	0.63	269	<10	70	0.6	25	3.55	0.5	12	12	730	4.17
E520710		0.55	0.005	<0.2	0.03	<2	10	10	<0.5	<2	>25.0	<0.5	<1	1	3	0.12
E520711		5.00	0.111	0.4	0.71	710	<10	20	1.4	8	4.17	<0.5	18	80	619	8.13
E520712		6.63	0.216	1.1	3.04	46	<10	50	0.7	38	3.18	<0.5	15	34	723	6.18
E520713		6.16	1.315	3.4	0.27	78	<10	110	<0.5	17	1.04	0.6	12	3	2120	2.58
E520714		6.16	0.036	0.5	0.50	295	<10	100	<0.5	13	2.50	<0.5	9	7	434	3.14
E520715		6.53	0.069	0.9	0.75	114	<10	70	1.0	2	1.25	<0.5	14	11	620	3.77
E520716		6.78	0.028	0.3	0.49	101	<10	160	<0.5	8	0.87	<0.5	7	5	227	2.15
E520717		6.09	0.102	0.6	1.01	26	<10	100	<0.5	6	0.64	<0.5	11	10	493	3.11
E520718		6.76	0.040	0.3	2.09	112	<10	170	<0.5	3	0.99	<0.5	17	59	432	5.63
E520719		6.87	0.619	1.1	1.56	60	<10	50	<0.5	17	0.88	<0.5	22	23	1160	6.09
E520720		0.06	0.291	1.0	1.53	6	<10	120	<0.5	<2	0.92	<0.5	11	28	3190	3.04
E520721		7.09	0.289	0.3	2.80	71	<10	100	<0.5	12	1.92	1.4	16	164	301	5.37
E520722		5.05	0.048	0.2	1.82	45	<10	60	<0.5	4	0.67	<0.5	14	68	318	4.56
E520723		4.95	0.064	0.6	1.64	19	<10	50	<0.5	15	0.70	<0.5	9	10	548	4.00
E520724		6.15	0.044	0.6	0.33	142	<10	90	<0.5	141	0.61	<0.5	9	4	302	1.66
E520725		6.38	0.047	0.5	0.45	57	<10	110	<0.5	6	0.63	<0.5	9	6	353	1.77
E520726		6.86	0.076	0.8	1.18	544	<10	70	0.5	10	0.56	<0.5	15	15	752	3.82
E520727		6.73	0.052	0.6	0.55	482	<10	100	<0.5	9	0.55	<0.5	12	9	472	2.57
E520728		6.21	0.065	0.3	0.72	156	<10	110	<0.5	3	0.59	<0.5	10	8	322	2.71
E520729		7.55	0.041	0.2	1.66	120	<10	90	0.5	8	1.44	<0.5	19	24	339	5.13
E520730		0.42	<0.005	<0.2	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	3	0.15
E520731		6.99	0.137	0.2	1.56	125	<10	40	<0.5	8	1.71	<0.5	31	21	536	5.74
E520732		6.96	0.075	0.4	1.66	319	<10	30	<0.5	12	1.75	<0.5	23	23	619	5.87
E520733		6.97	0.062	0.2	2.54	69	<10	100	0.5	25	1.74	<0.5	15	32	298	6.56
E520734		6.61	0.041	0.2	2.16	279	<10	120	0.5	3	1.84	<0.5	22	28	374	6.36
E520735		6.99	0.059	0.4	1.71	446	<10	40	0.5	10	1.89	<0.5	15	15	459	5.24
E520736		6.64	0.221	0.6	1.01	87	<10	110	<0.5	12	1.01	<0.5	13	21	503	3.86

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20697		10	<1	0.84	10	1.50	252	2	0.06	12	710	21	1.03	<2	12	29
ES20698		10	<1	0.39	10	0.84	158	1	0.05	10	370	27	0.95	10	6	18
ES20699		10	<1	0.38	10	0.74	135	2	0.06	8	400	11	0.64	2	6	17
ES20700		<10	4	0.10	<10	4.78	336	8	0.02	32	490	8	1.39	55	3	45
ES20701		10	<1	0.92	10	1.42	269	1	0.09	13	610	15	0.70	4	12	40
ES20702		<10	<1	0.12	10	0.93	289	2	0.01	18	820	96	2.27	113	13	51
ES20703		<10	<1	0.12	40	0.76	209	2	0.02	6	640	12	1.74	12	8	40
ES20704		<10	<1	0.14	20	0.81	186	2	0.03	6	280	14	0.76	3	6	62
ES20705		<10	<1	0.27	20	0.98	189	1	0.04	9	430	83	0.94	2	7	59
ES20706		<10	<1	0.36	20	0.94	177	1	0.04	8	800	15	0.93	3	8	45
ES20707		<10	<1	0.31	20	0.95	178	1	0.04	5	470	7	1.04	3	11	52
ES20708		<10	<1	0.15	40	0.97	175	1	0.02	11	660	14	1.72	5	11	60
ES20709		<10	<1	0.22	30	1.51	253	<1	0.02	30	500	25	1.50	10	9	110
ES20710		<10	<1	0.02	<10	1.52	131	<1	0.01	<1	70	<2	0.01	2	<1	75
ES20711		<10	1	0.19	20	2.03	399	<1	0.02	93	1640	5	2.72	30	20	119
ES20712		10	<1	1.51	10	2.19	343	<1	0.25	35	680	13	1.08	22	17	102
ES20713		<10	<1	0.13	60	0.43	121	2	0.05	12	170	6	1.27	7	2	30
ES20714		<10	<1	0.13	60	1.01	312	3	0.02	14	560	11	1.04	33	6	71
ES20715		<10	<1	0.34	60	0.77	264	3	0.04	19	340	7	0.94	4	11	59
ES20716		<10	<1	0.26	80	0.42	120	1	0.06	4	320	9	0.67	3	3	30
ES20717		10	<1	0.58	100	0.88	133	1	0.05	7	470	7	0.98	2	7	22
ES20718		10	<1	1.40	30	1.95	319	1	0.08	26	1140	2	1.33	3	16	23
ES20719		10	<1	0.92	10	1.62	264	1	0.06	37	740	8	2.41	2	13	18
ES20720		10	<1	0.19	10	0.72	450	225	0.10	23	620	9	0.46	3	5	44
ES20721		10	<1	1.57	10	2.42	360	1	0.19	55	990	60	1.00	2	15	58
ES20722		10	<1	1.17	10	1.69	225	1	0.08	26	750	4	1.16	<2	13	19
ES20723		10	<1	1.09	10	1.53	183	1	0.08	6	930	4	0.83	2	12	18
ES20724		<10	<1	0.12	60	0.28	114	1	0.04	4	170	39	0.73	9	1	25
ES20725		<10	<1	0.12	90	0.22	105	1	0.05	4	230	10	0.68	4	1	28
ES20726		10	<1	0.53	80	1.01	159	<1	0.06	9	580	10	1.41	5	8	22
ES20727		<10	<1	0.17	110	0.36	111	1	0.06	4	420	12	1.16	3	2	21
ES20728		<10	<1	0.28	70	0.59	148	<1	0.06	5	370	6	0.83	2	5	21
ES20729		10	<1	0.87	30	1.61	330	1	0.09	14	820	8	1.11	<2	15	49
ES20730		<10	<1	0.01	<10	1.30	160	<1	0.02	<1	60	<2	0.01	<2	<1	75
ES20731		10	1	0.54	20	1.43	324	<1	0.10	13	910	5	2.03	3	16	54
ES20732		10	<1	0.82	10	1.79	366	<1	0.06	14	810	9	1.86	6	16	57
ES20733		10	<1	1.94	10	2.73	409	1	0.08	14	830	4	0.76	3	22	65
ES20734		10	<1	1.46	10	1.96	398	<1	0.06	16	940	5	1.30	<2	18	66
ES20735		10	<1	1.03	10	1.80	319	1	0.06	13	1070	4	1.18	4	17	63
ES20736		10	<1	0.69	60	1.17	182	2	0.04	11	470	8	1.22	2	8	36

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20697		<20	0.12	<10	<10	94	<10	66
ES20698		<20	0.05	<10	<10	47	<10	28
ES20699		<20	0.06	<10	<10	44	<10	19
ES20700		<20	<0.01	<10	<10	38	40	67
ES20701		<20	0.17	<10	<10	106	<10	48
ES20702		<20	<0.01	<10	<10	51	<10	64
ES20703		<20	<0.01	<10	<10	23	<10	66
ES20704		<20	0.01	<10	<10	16	<10	79
ES20705		<20	0.02	<10	<10	26	<10	211
ES20706		<20	0.04	<10	<10	28	<10	36
ES20707		<20	0.04	<10	<10	22	<10	25
ES20708		<20	<0.01	<10	<10	30	<10	35
ES20709		<20	0.02	<10	<10	38	<10	40
ES20710		<20	<0.01	<10	<10	<1	<10	<2
ES20711		<20	<0.01	<10	<10	125	<10	44
ES20712		<20	0.25	<10	<10	148	<10	42
ES20713		20	<0.01	<10	<10	11	<10	55
ES20714		20	<0.01	<10	<10	25	<10	32
ES20715		<20	0.02	<10	<10	53	<10	42
ES20716		20	0.02	<10	<10	20	<10	16
ES20717		20	0.08	<10	<10	56	<10	18
ES20718		<20	0.22	<10	<10	135	<10	35
ES20719		<20	0.13	<10	<10	104	<10	44
ES20720		<20	0.14	<10	<10	60	10	57
ES20721		<20	0.22	<10	<10	126	<10	159
ES20722		<20	0.17	<10	<10	75	<10	26
ES20723		<20	0.18	<10	<10	92	<10	32
ES20724		20	<0.01	<10	<10	5	<10	26
ES20725		30	<0.01	<10	<10	7	<10	19
ES20726		20	0.08	<10	<10	50	<10	28
ES20727		30	0.01	<10	<10	17	<10	19
ES20728		20	0.04	<10	<10	24	<10	21
ES20729		<20	0.15	<10	<10	120	<10	33
ES20730		<20	<0.01	<10	<10	<1	<10	<2
ES20731		<20	0.11	<10	<10	144	<10	27
ES20732		<20	0.12	<10	<10	135	<10	38
ES20733		<20	0.23	<10	<10	177	<10	42
ES20734		<20	0.21	<10	<10	178	<10	36
ES20735		<20	0.14	<10	<10	139	<10	31
ES20736		20	0.08	<10	<10	55	<10	31

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ES20737		6.86	0.124	<0.2	2.01	46	<10	60	0.6	4	1.59	<0.5	15	9	287	5.43
ES20738		6.71	0.098	0.6	1.26	46	<10	50	0.5	3	1.58	<0.5	11	40	507	3.73
ES20739		6.39	0.192	0.6	0.69	428	<10	10	0.9	7	1.86	<0.5	25	17	663	5.00
ES20740		0.06	0.774	5.2	1.26	30	10	50	<0.5	2	0.53	5.1	15	21	5370	6.00
ES20741		6.00	0.021	0.3	0.87	70	<10	20	0.6	3	1.68	<0.5	17	8	437	3.45
ES20742		6.52	0.014	0.2	1.05	23	<10	50	0.5	<2	0.91	<0.5	9	36	243	2.16
ES20743		6.59	0.011	<0.2	1.26	114	<10	60	0.6	21	1.17	<0.5	12	46	92	2.34
ES20744		6.21	0.028	0.2	0.83	187	<10	20	0.6	14	1.44	<0.5	7	30	129	1.90
ES20745		6.72	0.013	<0.2	0.87	84	<10	40	0.5	6	1.45	<0.5	5	32	111	2.03
ES20746		6.69	0.013	<0.2	1.28	35	<10	80	0.6	2	1.14	<0.5	8	45	133	2.66
ES20747		6.24	0.026	<0.2	1.74	236	<10	110	0.6	<2	0.84	<0.5	9	51	115	2.54
ES20748		6.23	0.020	<0.2	1.48	111	<10	80	0.6	<2	1.05	<0.5	6	51	85	2.40
ES20749		6.52	0.016	<0.2	0.91	185	<10	30	0.5	2	1.20	<0.5	6	25	129	2.11
ES20750		0.48	<0.005	0.2	0.02	2	<10	10	<0.5	5	>25.0	<0.5	1	1	2	0.11
ES20751		5.92	0.032	<0.2	0.85	171	<10	30	0.6	<2	1.63	<0.5	10	32	130	2.72
ES20752		6.04	0.032	0.2	0.85	142	<10	30	0.6	<2	2.30	<0.5	9	33	125	2.58
ES20753		6.68	0.052	0.5	0.69	141	<10	50	0.7	18	2.53	0.5	10	36	317	3.36
ES20754		5.86	0.048	0.2	1.17	106	<10	40	0.8	8	2.35	<0.5	9	32	188	3.08
ES20755		6.27	0.028	0.2	1.59	150	<10	40	0.7	14	0.65	<0.5	7	51	84	2.67
ES20756		6.27	0.021	<0.2	1.20	126	<10	50	0.7	4	0.92	<0.5	8	46	79	2.38
ES20757		6.95	0.022	<0.2	1.42	126	<10	60	0.6	<2	1.43	0.5	6	54	72	2.58
ES20758		6.73	0.017	<0.2	1.41	72	<10	80	0.5	<2	1.30	<0.5	5	47	45	2.27
ES20759		6.03	0.013	<0.2	1.58	35	<10	60	<0.5	<2	0.96	<0.5	5	45	31	2.26
ES20760		0.06	0.312	0.9	1.52	6	<10	120	<0.5	<2	0.91	0.5	11	28	3240	3.05
ES20761		6.34	0.026	<0.2	1.45	83	<10	80	0.5	6	0.85	<0.5	7	56	119	2.59
ES20762		6.16	0.015	<0.2	1.15	217	<10	70	1.2	<2	0.67	<0.5	9	6	106	2.00
ES20763		4.73	0.006	<0.2	0.88	55	<10	30	0.8	2	0.98	<0.5	6	10	108	2.21
ES20764		5.06	0.025	<0.2	0.60	708	<10	10	0.9	<2	2.35	<0.5	11	12	118	3.56
ES20765		6.08	0.035	<0.2	1.29	52	<10	100	0.8	<2	1.46	<0.5	13	34	194	3.62
ES20766		6.47	0.029	0.2	2.14	13	<10	160	<0.5	<2	0.80	<0.5	16	28	232	4.63
ES20767		6.81	0.024	0.2	2.21	13	<10	230	<0.5	<2	0.53	<0.5	18	31	267	5.17
ES20768		6.96	0.009	0.2	2.00	39	<10	240	<0.5	<2	0.56	<0.5	14	42	150	4.61
ES20769		6.71	0.014	<0.2	1.13	63	<10	130	0.5	4	1.34	<0.5	13	34	200	3.86
ES20770		0.50	<0.005	<0.2	0.02	<2	10	10	<0.5	<2	>25.0	<0.5	1	1	5	0.12
ES20771		6.34	0.018	<0.2	1.41	17	<10	140	0.8	3	1.21	<0.5	11	32	122	3.08
ES20772		5.84	0.005	<0.2	0.79	104	<10	20	0.6	2	1.05	<0.5	20	24	113	3.27
ES20773		6.51	0.029	<0.2	0.36	76	<10	30	0.6	2	3.93	<0.5	7	11	190	3.00
ES20774		6.73	0.046	<0.2	0.50	147	<10	20	0.8	4	2.47	<0.5	12	16	239	3.99
ES20775		6.64	0.051	<0.2	0.49	79	<10	10	0.7	5	2.70	<0.5	13	14	356	4.00
ES20776		7.18	0.153	0.4	0.60	97	<10	10	1.0	4	2.93	<0.5	16	53	424	4.49

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ES20737		10	<1	1.28	10	2.00	221	1	0.05	8	670	3	1.00	<2	21	70
ES20738		10	<1	0.65	20	1.19	178	2	0.04	20	630	5	0.93	2	14	59
ES20739		<10	<1	0.12	20	0.82	369	4	<0.01	22	680	4	1.82	9	18	35
ES20740		<10	<1	0.28	<10	0.38	724	118	0.03	18	510	110	4.17	2	2	36
ES20741		<10	<1	0.12	10	0.63	170	2	0.01	10	360	3	1.31	8	9	45
ES20742		10	<1	0.40	20	0.66	125	4	0.04	18	360	3	0.52	3	8	26
ES20743		10	<1	0.45	30	0.86	151	16	0.01	27	640	13	0.35	6	8	41
ES20744		<10	<1	0.15	30	0.66	123	13	0.01	25	770	12	0.47	10	7	57
ES20745		<10	<1	0.28	20	0.64	139	12	0.03	20	630	6	0.42	3	6	44
ES20746		10	<1	0.50	20	0.88	160	4	0.03	27	620	5	0.41	2	7	38
ES20747		10	<1	0.66	30	0.92	112	4	0.01	31	790	3	0.39	9	7	32
ES20748		10	<1	0.61	30	0.86	163	4	0.02	27	700	4	0.30	8	7	31
ES20749		<10	<1	0.19	20	0.68	143	4	0.01	21	610	7	0.39	10	8	36
ES20750		<10	<1	0.01	<10	1.05	137	<1	0.01	2	70	<2	0.02	2	<1	81
ES20751		<10	<1	0.19	30	0.81	174	4	<0.01	32	770	7	0.54	8	9	37
ES20752		<10	<1	0.23	20	1.05	172	4	<0.01	28	820	7	0.47	9	9	87
ES20753		<10	<1	0.25	20	1.08	251	3	0.01	28	710	18	0.66	6	11	65
ES20754		10	<1	0.33	20	1.02	229	24	0.01	27	760	10	0.48	7	9	54
ES20755		10	<1	0.40	30	0.89	157	4	0.01	30	800	14	0.41	5	8	25
ES20756		10	<1	0.31	30	0.74	115	5	0.01	28	700	6	0.38	5	7	29
ES20757		10	<1	0.46	20	0.95	157	3	0.03	33	720	7	0.28	2	8	42
ES20758		10	<1	0.44	20	0.86	123	4	0.03	25	680	4	0.19	<2	7	40
ES20759		10	<1	0.68	20	0.92	126	2	0.06	20	570	3	0.12	2	8	32
ES20760		10	<1	0.20	10	0.73	454	262	0.09	23	650	9	0.46	2	5	44
ES20761		10	<1	0.56	20	0.84	154	6	0.05	27	720	9	0.35	3	8	35
ES20762		10	<1	0.22	20	0.53	119	1	0.01	4	880	8	0.38	6	6	33
ES20763		<10	<1	0.22	20	0.65	123	2	0.01	8	590	9	0.44	4	6	50
ES20764		<10	<1	0.15	10	1.05	247	3	0.01	15	440	15	0.48	9	13	90
ES20765		10	<1	0.38	20	1.02	185	6	0.01	22	620	4	0.84	4	13	63
ES20766		10	<1	1.31	10	1.66	179	2	0.08	13	480	3	0.89	<2	19	33
ES20767		10	<1	1.52	10	1.65	206	5	0.07	15	610	2	0.92	<2	20	20
ES20768		10	<1	1.26	20	1.34	186	4	0.07	18	650	2	0.71	2	18	21
ES20769		10	<1	0.54	20	0.99	175	5	0.05	20	660	3	0.79	2	14	42
ES20770		<10	<1	0.01	<10	1.55	134	<1	0.01	<1	80	<2	<0.01	<2	<1	75
ES20771		10	<1	0.44	20	0.85	149	2	0.01	18	390	3	0.67	4	12	62
ES20772		<10	<1	0.07	20	0.70	276	2	<0.01	21	630	6	0.63	3	14	44
ES20773		<10	<1	0.10	10	1.63	229	5	0.01	14	330	3	0.67	13	7	147
ES20774		<10	<1	0.13	10	1.32	220	3	0.01	19	600	6	1.07	15	10	96
ES20775		<10	<1	0.09	10	1.35	243	3	<0.01	17	520	5	1.03	4	13	82
ES20776		<10	<1	0.12	10	1.48	355	1	<0.01	59	620	4	0.77	7	19	107

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ES20737		<20	0.16	<10	<10	112	<10	26
ES20738		<20	0.08	<10	<10	92	<10	26
ES20739		<20	<0.01	<10	<10	72	<10	34
ES20740		<20	0.02	<10	<10	24	<10	860
ES20741		<20	0.01	<10	<10	19	<10	21
ES20742		<20	0.05	<10	<10	56	<10	18
ES20743		<20	0.05	<10	<10	68	<10	23
ES20744		<20	0.01	<10	<10	46	<10	37
ES20745		<20	0.03	<10	<10	47	<10	31
ES20746		<20	0.06	<10	<10	75	<10	28
ES20747		<20	0.07	<10	<10	80	<10	25
ES20748		<20	0.08	<10	<10	76	<10	39
ES20749		<20	0.01	<10	<10	47	<10	24
ES20750		<20	<0.01	<10	<10	1	<10	<2
ES20751		<20	0.01	<10	<10	58	<10	17
ES20752		<20	0.02	<10	<10	58	<10	21
ES20753		<20	0.02	<10	<10	61	<10	50
ES20754		<20	0.03	<10	<10	70	<10	29
ES20755		<20	0.04	<10	<10	85	<10	25
ES20756		<20	0.03	<10	<10	73	<10	12
ES20757		<20	0.06	<10	<10	81	<10	46
ES20758		<20	0.05	<10	<10	78	<10	14
ES20759		<20	0.09	<10	<10	85	<10	13
ES20760		<20	0.14	<10	<10	61	10	56
ES20761		<20	0.09	<10	<10	99	<10	21
ES20762		<20	0.02	<10	<10	44	<10	18
ES20763		<20	0.01	<10	<10	40	<10	21
ES20764		<20	<0.01	<10	<10	50	<10	44
ES20765		<20	0.04	<10	<10	80	<10	13
ES20766		<20	0.19	<10	<10	137	<10	19
ES20767		<20	0.23	<10	<10	154	<10	20
ES20768		<20	0.20	<10	<10	147	<10	17
ES20769		<20	0.09	<10	<10	105	<10	14
ES20770		<20	<0.01	<10	<10	1	<10	3
ES20771		<20	0.05	<10	<10	82	<10	12
ES20772		<20	0.01	<10	<10	56	<10	30
ES20773		<20	<0.01	<10	<10	39	<10	14
ES20774		<20	<0.01	<10	<10	54	<10	18
ES20775		<20	<0.01	<10	<10	63	<10	20
ES20776		<20	<0.01	<10	<10	71	<10	39

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ES20777		6.23	0.043	<0.2	0.45	61	<10	10	1.1	2	2.96	<0.5	10	5	182	2.97
ES20778		3.28	0.018	<0.2	0.63	11	<10	20	1.1	2	1.59	<0.5	7	3	175	2.43
ES20779		4.57	0.058	0.8	0.42	57	<10	20	0.6	153	2.09	0.6	9	6	649	2.41
ES20780		0.06	0.722	5.1	1.23	30	10	50	<0.5	4	0.53	5.2	14	21	5270	5.86
ES20781		5.68	0.023	<0.2	1.81	216	<10	50	<0.5	3	1.62	<0.5	16	47	109	5.04
ES20782		7.56	0.088	0.2	1.68	113	<10	50	0.6	4	0.71	<0.5	25	90	214	7.09
ES20783		0.41	<0.005	<0.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	2	4	0.14
ES20784		6.03	0.808	0.2	1.84	111	<10	40	0.8	9	0.41	5.0	25	75	181	7.69
ES20785		6.41	0.106	<0.2	1.76	17	<10	90	0.7	9	0.36	<0.5	22	70	107	6.70
ES20786		6.15	0.139	0.3	1.42	45	<10	30	0.9	9	0.46	0.8	27	35	210	7.48
ES20787		5.02	0.087	0.3	0.98	314	<10	10	1.3	6	0.27	8.5	16	26	216	3.25
ES20788		3.37	0.081	0.3	1.11	1090	<10	20	1.0	13	0.24	2.2	14	11	219	2.11
ES20789		2.82	0.157	0.4	1.12	921	<10	20	1.1	11	0.16	8.6	19	21	488	3.78
ES20790		4.05	0.261	0.4	1.40	1295	<10	20	1.0	134	0.06	4.9	13	10	1240	2.77
ES20791		4.87	0.186	0.6	1.58	194	<10	10	1.5	20	0.19	19.1	35	43	420	4.22
ES20792		6.67	0.038	0.4	1.02	53	<10	10	0.9	31	0.35	1.3	29	40	223	8.21
ES20793		0.06	0.320	0.9	1.47	6	<10	120	<0.5	2	0.89	<0.5	10	28	3190	2.98
ES20794		6.78	0.079	0.3	0.95	48	<10	100	0.9	8	0.43	<0.5	18	15	186	10.40
ES20795		6.69	0.120	1.0	0.89	2740	<10	20	0.8	20	0.29	<0.5	34	15	271	8.43
ES20796		6.00	0.013	0.5	1.49	40	<10	20	0.6	18	0.35	<0.5	25	39	245	7.29
ES20797		5.88	0.014	0.2	1.66	50	<10	40	<0.5	8	0.39	<0.5	20	23	208	6.93
ES20798		6.62	0.017	0.2	1.84	30	<10	60	<0.5	9	0.34	<0.5	18	23	194	6.04
ES20799		6.00	0.037	0.2	1.76	49	<10	40	0.5	5	0.49	<0.5	17	17	158	6.33
ES20800		6.52	0.009	0.4	2.21	36	<10	30	0.6	3	0.44	<0.5	21	47	197	6.17
ES20801		6.36	0.005	0.3	2.06	29	<10	20	0.7	7	0.40	<0.5	23	64	236	7.39
ES20802		5.33	0.009	<0.2	1.71	38	<10	40	<0.5	4	0.46	<0.5	19	48	123	5.89
ES20803		0.35	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.15
ES20804		6.27	0.009	0.5	2.01	33	<10	30	<0.5	24	0.31	<0.5	16	49	145	5.80
ES20805		6.52	0.027	<0.2	2.06	233	<10	50	0.5	28	0.35	<0.5	18	45	128	6.39
ES20806		5.31	0.024	<0.2	2.16	32	<10	30	<0.5	8	0.39	<0.5	16	44	163	5.45
ES20807		6.09	0.079	0.3	1.88	34	<10	30	<0.5	6	0.40	<0.5	15	26	128	4.73
ES20808		6.04	0.030	0.2	2.78	17	<10	50	<0.5	5	0.30	<0.5	22	107	211	7.21
ES20809		5.71	0.037	0.2	2.28	15	<10	50	<0.5	5	0.57	<0.5	16	53	140	5.28
ES20810		6.43	0.028	<0.2	2.32	60	<10	80	<0.5	<2	0.69	<0.5	13	73	92	4.47
ES20811		5.72	0.038	0.2	2.73	76	<10	110	<0.5	<2	0.81	<0.5	14	63	66	4.46
ES20812		5.88	0.061	<0.2	2.34	90	<10	50	<0.5	<2	0.69	<0.5	14	58	76	4.19
ES20813		0.06	0.299	0.9	1.45	7	10	110	<0.5	<2	0.86	0.5	11	27	3130	2.93
ES20814		6.46	0.013	0.2	2.78	22	<10	100	0.5	<2	0.89	<0.5	17	60	75	4.86
ES20815		6.34	0.022	0.2	2.54	15	<10	60	0.5	2	1.04	<0.5	11	51	80	4.67
ES20816		5.38	0.211	<0.2	1.17	692	<10	30	0.6	11	2.13	<0.5	10	20	120	4.09

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E520777		<10	<1	0.16	20	1.21	295	1	0.01	7	780	5	0.74	10	9	106
E520778		<10	<1	0.14	20	0.72	122	<1	<0.01	3	910	6	0.65	3	4	87
E520779		<10	<1	0.16	10	0.76	169	1	0.01	8	640	24	0.75	5	4	91
E520780		<10	<1	0.28	<10	0.37	725	119	0.04	17	500	109	4.18	2	2	37
I027748		10	<1	0.96	10	1.97	495	1	0.07	23	590	2	0.88	<2	13	30
I027749		10	<1	0.74	20	1.77	629	1	0.03	33	870	3	1.62	4	15	17
I027750		<10	<1	0.01	<10	0.46	95	<1	0.01	<1	70	<2	0.01	2	<1	98
I027751		10	<1	0.50	20	1.60	861	<1	0.02	40	630	4	1.49	6	16	10
I027752		10	<1	0.82	20	1.69	718	1	0.04	31	450	<2	0.96	<2	12	9
I027753		10	<1	0.62	20	1.23	813	1	0.02	22	910	2	1.54	6	15	9
I027754		<10	<1	0.12	20	0.24	280	<1	<0.01	34	1040	4	1.37	9	17	16
I027755		<10	<1	0.10	20	0.03	48	1	<0.01	40	1310	3	1.91	15	8	13
I027756		<10	<1	0.11	10	0.13	179	34	<0.01	63	890	4	2.05	25	14	9
I027757		<10	<1	0.16	10	0.02	23	4	<0.01	42	590	9	3.00	55	4	7
I027758		<10	<1	0.12	20	0.21	230	<1	<0.01	62	630	8	2.55	14	14	11
I027759		10	<1	0.21	20	0.98	837	<1	0.01	41	530	5	2.14	5	14	6
I027760		10	<1	0.19	10	0.71	456	257	0.08	23	640	8	0.46	2	5	44
I027761		<10	<1	0.18	10	1.02	1320	2	0.01	9	470	3	1.61	5	13	7
I027762		<10	<1	0.22	10	0.70	841	<1	0.02	12	410	12	3.00	12	11	7
I027763		10	<1	0.26	10	1.22	562	<1	0.02	15	590	5	2.34	10	15	7
I027764		10	<1	0.13	10	1.49	526	2	0.02	10	460	6	2.23	2	14	7
I027765		10	<1	0.28	10	1.59	423	<1	0.04	9	450	6	1.84	3	14	9
I027766		10	<1	0.29	10	1.42	546	<1	0.03	6	430	4	1.64	3	13	10
I027767		10	<1	0.55	10	1.71	448	<1	0.02	24	640	2	1.77	8	17	10
I027768		10	<1	0.51	10	1.61	677	<1	0.02	37	520	5	2.03	8	13	9
I027769		10	<1	0.60	10	1.54	594	<1	0.06	26	460	3	1.17	3	11	9
I027770		<10	<1	0.01	<10	0.57	99	<1	0.01	<1	70	<2	0.01	<2	1	92
I027771		10	<1	0.53	10	1.92	469	1	0.04	21	480	5	1.47	2	14	8
I027772		10	<1	0.79	10	1.89	571	1	0.05	21	510	4	1.48	2	15	10
I027773		10	<1	0.42	10	1.98	260	1	0.04	18	480	2	1.63	<2	14	6
I027774		10	<1	0.42	10	1.64	196	1	0.05	8	490	<2	1.42	<2	13	7
I027775		20	<1	0.74	20	2.70	288	1	0.03	29	620	3	2.08	<2	19	6
I027776		10	<1	0.68	20	1.91	222	<1	0.03	20	450	2	1.38	<2	11	9
I027777		10	<1	0.98	20	1.92	210	2	0.04	29	490	<2	0.88	<2	11	13
I027778		10	<1	1.01	20	1.88	204	1	0.05	27	540	<2	0.72	<2	12	17
I027779		10	<1	0.63	20	1.73	200	1	0.04	29	470	3	0.74	<2	9	11
I027780		10	<1	0.19	10	0.70	435	247	0.08	23	630	8	0.44	3	5	41
I027781		10	<1	1.25	20	1.92	226	1	0.05	36	530	3	0.80	<2	11	16
I027782		10	<1	1.16	20	1.84	211	1	0.09	24	740	<2	0.83	<2	13	24
I027783		10	<1	0.35	20	1.03	235	1	0.03	13	460	3	1.37	4	8	51

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E520777		<20	<0.01	<10	<10	34	<10	15
E520778		<20	<0.01	<10	<10	21	<10	10
E520779		<20	<0.01	<10	<10	17	170	42
E520780		<20	0.02	<10	<10	24	<10	867
I027748		<20	0.16	<10	<10	122	<10	33
I027749		<20	0.06	<10	<10	103	<10	90
I027750		<20	<0.01	<10	<10	1	<10	2
I027751		<20	0.03	<10	<10	103	<10	89
I027752		<20	0.09	<10	<10	89	<10	90
I027753		<20	0.06	<10	<10	106	<10	72
I027754		<20	<0.01	<10	10	55	<10	38
I027755		<20	<0.01	<10	20	41	<10	21
I027756		<20	<0.01	<10	20	75	<10	52
I027757		<20	<0.01	<10	20	23	<10	38
I027758		<20	<0.01	<10	20	86	<10	114
I027759		<20	0.01	<10	<10	82	<10	104
I027760		<20	0.13	<10	<10	60	10	56
I027761		<20	0.01	<10	<10	83	<10	48
I027762		<20	0.01	<10	<10	74	<10	66
I027763		<20	0.01	<10	<10	105	<10	68
I027764		<20	0.01	<10	<10	111	<10	39
I027765		<20	0.03	<10	<10	120	<10	63
I027766		<20	0.02	<10	<10	131	<10	55
I027767		<20	0.04	<10	<10	134	<10	56
I027768		<20	0.04	<10	<10	110	<10	52
I027769		<20	0.12	<10	<10	119	<10	67
I027770		<20	<0.01	<10	<10	2	<10	2
I027771		<20	0.06	<10	<10	106	<10	54
I027772		<20	0.08	<10	<10	123	<10	51
I027773		<20	0.04	<10	<10	122	<10	32
I027774		<20	0.04	<10	<10	108	<10	26
I027775		<20	0.07	<10	<10	149	<10	43
I027776		<20	0.06	10	<10	94	<10	29
I027777		<20	0.10	<10	<10	102	<10	26
I027778		<20	0.18	<10	<10	93	<10	25
I027779		<20	0.09	<10	<10	85	<10	26
I027780		<20	0.12	<10	<10	58	10	54
I027781		<20	0.14	<10	<10	101	<10	27
I027782		<20	0.12	<10	<10	112	<10	23
I027783		<20	0.02	<10	<10	64	<10	20

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I027784		3.79	0.019	0.2	1.31	61	<10	30	<0.5	3	0.86	<0.5	10	26	108	3.41
I027785		3.73	0.046	0.2	1.52	74	<10	30	0.5	3	0.69	<0.5	13	24	134	4.30
I027786		5.09	0.120	0.2	0.80	73	<10	30	<0.5	3	1.45	<0.5	6	10	75	2.16
I027787		4.42	0.426	0.6	0.61	1700	<10	20	<0.5	19	5.41	<0.5	11	8	162	2.94
I027788		3.62	0.022	0.2	1.31	229	<10	40	<0.5	5	0.91	<0.5	11	35	130	4.08
I027789		6.68	0.049	<0.2	1.00	28	<10	20	<0.5	3	0.52	<0.5	10	15	89	2.93
I027790		0.25	0.006	0.2	0.03	3	<10	20	<0.5	3	>25.0	<0.5	<1	1	4	0.13
I027791		6.45	0.023	<0.2	2.41	52	<10	120	<0.5	2	0.69	<0.5	14	24	68	4.58
I027792		3.74	0.032	0.3	0.58	127	<10	30	<0.5	3	0.33	<0.5	10	10	157	2.66
I027793		3.37	0.029	0.2	0.59	65	<10	30	<0.5	<2	0.33	<0.5	10	9	140	2.43
I027794		4.97	0.033	<0.2	1.74	63	<10	70	<0.5	<2	0.66	<0.5	8	12	58	3.19
I027795		5.64	0.039	0.2	1.44	305	<10	40	<0.5	<2	0.78	<0.5	10	21	100	3.02
I027796		5.64	0.028	0.3	1.32	204	<10	20	<0.5	<2	0.88	<0.5	12	42	172	3.72
I027797		6.01	0.026	0.3	1.65	140	<10	30	0.5	<2	0.72	<0.5	14	48	182	4.09
I027798		6.89	0.022	0.3	2.39	20	<10	30	0.5	3	0.69	<0.5	20	59	268	5.80
I027799		6.03	0.022	0.3	3.05	4	<10	60	0.5	3	0.92	<0.5	19	44	165	5.62
I027800		0.06	0.279	1.2	1.49	6	<10	120	<0.5	<2	0.90	<0.5	11	27	3160	3.00
I027801		6.23	0.015	0.4	2.36	6	<10	30	0.5	4	0.88	<0.5	19	62	226	5.74
I027802		4.12	0.007	<0.2	1.01	5	<10	40	<0.5	<2	0.70	<0.5	5	40	42	1.85
I027803		4.07	0.038	<0.2	0.99	13	<10	50	0.5	<2	0.60	<0.5	8	29	54	2.37
I027804		4.20	0.431	0.5	0.44	6910	<10	20	0.5	52	2.17	<0.5	42	27	151	5.21
I027805		5.35	0.020	0.3	2.46	18	<10	40	<0.5	3	1.32	<0.5	20	69	205	6.54
I027806		5.71	0.046	0.4	1.99	12	<10	30	<0.5	4	1.44	<0.5	28	37	291	6.42
I027807		5.19	0.023	0.4	1.75	12	<10	30	<0.5	4	1.39	<0.5	19	61	168	4.97
I027808		6.09	0.091	0.3	2.54	5	<10	40	<0.5	9	1.53	<0.5	26	63	212	6.72
I027809		6.26	0.044	0.4	2.18	51	<10	40	<0.5	7	2.00	<0.5	18	63	127	4.78
I027810		Not Recvd														
I027811		5.85	0.108	0.2	1.81	9	<10	20	<0.5	31	1.02	<0.5	16	57	120	4.42
I027812		5.86	0.024	0.4	2.79	4	<10	30	<0.5	4	1.58	<0.5	26	89	225	7.22
I027813		6.51	0.021	0.3	2.46	5	<10	40	<0.5	6	1.90	<0.5	18	130	147	5.39
I027814		5.20	0.027	0.2	0.95	23	<10	30	<0.5	2	0.96	<0.5	9	26	61	2.33
I027815		6.16	0.080	0.2	1.25	45	<10	60	<0.5	<2	0.96	<0.5	9	28	71	2.58
I027816		4.24	0.011	<0.2	1.78	31	<10	40	<0.5	<2	0.95	<0.5	8	40	39	2.66
I027817		5.04	0.037	<0.2	2.62	371	<10	110	0.6	<2	1.26	<0.5	19	51	50	4.07
I027818		8.29	0.029	7.2	0.23	307	<10	100	<0.5	510	0.02	<0.5	<1	4	24	0.91
I027819		8.76	0.009	<0.2	0.28	151	<10	70	<0.5	<2	0.02	<0.5	<1	4	12	0.68
I027820		0.06	0.283	0.8	1.44	7	<10	110	<0.5	<2	0.64	<0.5	11	27	3140	2.95
I027821		9.22	0.006	0.2	0.27	619	<10	80	<0.5	<2	0.02	<0.5	<1	4	20	0.82
I027822		9.97	0.131	0.9	0.22	3660	<10	80	<0.5	7	0.02	<0.5	<1	5	78	0.97
I027823		8.63	0.009	<0.2	0.33	56	<10	100	<0.5	<2	0.01	<0.5	<1	4	6	0.60

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I027784		10	<1	0.33	20	0.98	171	2	0.03	17	370	4	1.01	<2	7	19
I027785		10	<1	0.46	20	1.13	198	1	0.05	14	500	2	1.45	2	8	19
I027786		10	<1	0.12	20	0.51	128	1	0.04	4	560	2	0.75	2	2	41
I027787		<10	<1	0.10	10	0.73	175	1	0.02	4	470	5	1.25	11	2	161
I027788		10	<1	0.31	30	1.11	209	<1	0.04	13	1580	<2	1.34	<2	10	28
I027789		10	<1	0.16	20	0.67	145	1	0.05	3	320	3	1.02	2	6	10
I027790		<10	<1	<0.01	<10	0.53	85	<1	<0.01	1	60	<2	0.02	2	<1	84
I027791		10	<1	1.30	10	2.17	245	<1	0.07	8	540	3	0.61	<2	15	20
I027792		<10	<1	0.11	20	0.38	97	1	0.04	3	380	3	1.27	2	3	16
I027793		<10	<1	0.11	20	0.38	89	<1	0.05	3	370	3	1.04	2	3	14
I027794		10	<1	0.58	10	1.44	185	1	0.06	4	350	2	0.49	<2	10	18
I027795		10	<1	0.29	30	1.13	165	3	0.03	7	300	8	0.72	3	8	15
I027796		10	<1	0.22	20	1.04	171	3	0.02	16	340	5	1.27	3	8	18
I027797		10	<1	0.57	20	1.18	180	2	0.03	18	360	3	1.40	4	9	14
I027798		10	<1	0.78	10	1.65	214	2	0.07	31	510	2	1.94	2	14	14
I027799		10	<1	1.26	10	2.06	229	2	0.12	28	580	2	1.35	<2	16	20
I027800		<10	<1	0.20	10	0.72	442	260	0.08	23	630	9	0.45	2	5	43
I027801		10	<1	0.51	20	1.72	235	5	0.06	25	650	4	1.85	<2	13	13
I027802		<10	<1	0.45	20	0.65	107	12	0.03	29	250	10	0.35	<2	4	15
I027803		<10	<1	0.56	30	0.60	141	3	0.02	31	290	11	0.63	<2	4	15
I027804		<10	<1	0.21	10	0.99	616	2	0.01	29	570	9	2.86	30	5	39
I027805		10	<1	0.67	10	2.36	326	2	0.04	41	1160	4	1.55	<2	18	28
I027806		10	<1	0.41	10	1.65	314	1	0.10	45	1170	4	2.28	<2	11	36
I027807		10	<1	0.47	10	1.48	279	3	0.04	38	690	4	1.52	<2	10	22
I027808		10	<1	0.58	10	2.22	336	5	0.04	38	1080	3	1.98	<2	12	21
I027809		10	<1	0.43	10	1.76	327	2	0.08	28	800	2	1.15	<2	12	30
I027810																
I027811		10	<1	0.33	20	1.51	263	3	0.04	32	790	4	1.24	<2	9	15
I027812		10	<1	0.40	10	2.44	418	1	0.05	69	950	2	2.04	<2	15	20
I027813		10	<1	0.62	10	1.95	348	2	0.09	47	820	3	1.38	<2	11	34
I027814		10	<1	0.22	20	0.67	144	74	0.03	13	370	2	0.63	<2	4	13
I027815		10	<1	0.42	20	0.81	156	16	0.04	15	350	2	0.62	2	5	17
I027816		10	<1	0.46	20	1.06	175	2	0.10	18	330	4	0.35	<2	7	19
I027817		10	<1	0.83	10	1.55	244	2	0.11	31	510	2	0.60	<2	9	24
I027818		<10	<1	0.26	10	0.01	22	7	<0.01	2	50	74	0.23	65	1	6
I027819		<10	<1	0.19	20	0.01	18	1	<0.01	1	50	8	0.16	4	1	7
I027820		<10	<1	0.19	10	0.70	437	247	0.08	23	620	9	0.44	2	4	41
I027821		<10	<1	0.22	20	0.01	19	3	<0.01	2	40	8	0.20	6	1	6
I027822		<10	<1	0.26	10	0.01	24	3	<0.01	1	30	24	0.24	13	1	4
I027823		<10	<1	0.20	20	<0.01	23	1	<0.01	1	50	8	0.16	2	1	5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027784		<20	0.02	<10	<10	83	<10	20
I027785		<20	0.04	<10	<10	85	<10	22
I027786		<20	<0.01	<10	<10	26	<10	10
I027787		<20	<0.01	<10	<10	22	<10	11
I027788		<20	0.06	<10	<10	96	<10	19
I027789		<20	0.03	<10	<10	45	<10	14
I027790		<20	<0.01	<10	<10	1	<10	2
I027791		<20	0.12	<10	<10	112	<10	31
I027792		<20	<0.01	<10	<10	28	<10	8
I027793		<20	<0.01	<10	<10	30	<10	8
I027794		<20	0.05	<10	<10	69	<10	23
I027795		<20	0.02	<10	<10	61	<10	22
I027796		<20	0.01	<10	<10	63	<10	26
I027797		<20	0.05	<10	<10	84	<10	21
I027798		<20	0.09	<10	<10	148	<10	28
I027799		<20	0.16	<10	<10	162	<10	29
I027800		<20	0.13	<10	<10	59	10	56
I027801		<20	0.05	<10	<10	133	<10	28
I027802		<20	0.03	<10	<10	61	<10	19
I027803		<20	0.03	<10	<10	45	<10	20
I027804		<20	<0.01	<10	<10	46	<10	25
I027805		<20	0.06	<10	<10	194	<10	41
I027806		<20	0.09	<10	<10	130	<10	33
I027807		<20	0.06	<10	<10	123	<10	30
I027808		<20	0.08	<10	<10	223	<10	40
I027809		<20	0.09	<10	<10	138	<10	39
I027810								
I027811		<20	0.06	<10	<10	123	<10	28
I027812		<20	0.08	<10	<10	180	<10	44
I027813		<20	0.10	<10	<10	120	<10	39
I027814		<20	0.01	<10	<10	43	<10	14
I027815		<20	0.06	<10	<10	44	<10	16
I027816		<20	0.08	<10	<10	71	<10	22
I027817		<20	0.12	<10	<10	94	<10	30
I027818		20	<0.01	<10	<10	1	<10	2
I027819		20	<0.01	<10	<10	2	<10	<2
I027820		<20	0.12	<10	<10	57	10	54
I027821		20	<0.01	<10	<10	2	<10	2
I027822		<20	<0.01	<10	<10	1	<10	9
I027823		20	<0.01	<10	<10	1	<10	<2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
I027824		9.30	0.006	<0.2	0.34	29	<10	170	<0.5	<2	0.01	<0.5	<1	4	7	0.45
I027825		8.52	0.005	<0.2	0.32	22	<10	80	<0.5	<2	0.01	<0.5	<1	3	4	0.45
I027826		8.24	0.006	0.2	0.30	45	<10	70	<0.5	2	0.01	<0.5	<1	4	5	0.55
I027827		8.12	0.006	0.3	0.30	70	<10	80	<0.5	<2	0.01	<0.5	<1	4	7	0.69
I027828		8.58	0.006	<0.2	0.32	67	<10	90	<0.5	<2	0.01	<0.5	<1	4	11	0.66
I027829		8.55	0.005	0.2	0.38	29	<10	100	<0.5	<2	0.01	<0.5	<1	4	8	0.62
I027830		0.40	0.006	0.2	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	1	0.09
I027831		7.89	0.011	0.2	0.31	50	<10	100	<0.5	<2	0.05	0.6	<1	5	7	0.61
I027832		8.50	0.006	<0.2	0.31	23	<10	100	<0.5	<2	0.01	<0.5	<1	4	5	0.47
I027833		8.11	0.011	<0.2	0.32	17	<10	90	<0.5	<2	0.01	<0.5	<1	6	8	0.62
I028010		0.55	<0.005	0.3	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	3	0.19

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method Analyte Units LOR	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
I027824		<10	<1	0.15	20	<0.01	22	1	<0.01	1	50	7	0.10	2	1	4
I027825		<10	<1	0.16	20	<0.01	21	1	<0.01	1	40	9	0.11	2	1	4
I027826		<10	<1	0.19	20	<0.01	23	1	<0.01	1	30	6	0.13	2	<1	4
I027827		<10	<1	0.23	20	<0.01	23	2	<0.01	1	30	7	0.19	3	<1	4
I027828		<10	<1	0.18	20	<0.01	22	2	<0.01	2	50	14	0.15	4	1	5
I027829		<10	<1	0.21	20	<0.01	23	2	0.01	2	50	14	0.18	3	1	5
I027830		<10	<1	0.01	<10	0.70	133	<1	0.01	<1	70	<2	0.01	2	<1	81
I027831		<10	<1	0.19	20	<0.01	22	4	<0.01	1	60	64	0.17	3	1	7
I027832		<10	<1	0.16	20	<0.01	22	1	<0.01	1	40	7	0.11	3	<1	4
I027833		<10	<1	0.19	20	<0.01	22	1	0.01	1	40	6	0.18	<2	1	5
I028010		<10	<1	0.01	<10	1.44	142	<1	0.01	1	60	<2	0.07	3	<1	76

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
I027824		20	<0.01	<10	<10	1	<10	2
I027825		<20	<0.01	<10	<10	1	<10	<2
I027826		<20	<0.01	<10	<10	1	<10	<2
I027827		<20	<0.01	<10	<10	1	<10	<2
I027828		20	<0.01	<10	<10	1	<10	<2
I027829		20	<0.01	<10	<10	1	<10	2
I027830		<20	<0.01	<10	<10	<1	<10	<2
I027831		20	<0.01	<10	<10	1	<10	3
I027832		<20	<0.01	<10	<10	1	<10	2
I027833		20	<0.01	<10	<10	1	<10	<2
I028010		<20	<0.01	<10	<10	<1	<10	4

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25- SEP- 2017
Account: NOFREG

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17178150

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

ALS Canada Ltd.
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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164142

Project: Freegold Mountain

P.O. No.: 1005139- NOFREG- R1

This report is for 268 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 35	Pulv 250 g Split to 95%< 106 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
E443651		0.65	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	<1	0.11
E443652		6.94	0.006	<0.2	1.07	5	<10	110	<0.5	<2	0.95	<0.5	6	12	71	2.29
E443653		7.08	0.006	<0.2	1.04	27	<10	80	<0.5	<2	1.64	<0.5	6	12	116	2.47
E443654		6.49	<0.005	<0.2	1.02	3	<10	210	<0.5	<2	0.93	<0.5	6	12	54	2.36
E443655		7.32	0.005	<0.2	1.16	5	<10	190	<0.5	2	1.24	<0.5	8	12	103	2.69
E443656		6.59	<0.005	<0.2	1.16	2	<10	190	<0.5	<2	1.02	<0.5	8	12	87	2.63
E443657		7.00	0.034	0.7	1.06	11	<10	110	<0.5	76	0.98	<0.5	8	11	411	2.50
E443658		7.05	<0.005	<0.2	0.94	7	<10	80	<0.5	4	1.10	<0.5	6	10	98	2.24
E443659		6.83	<0.005	<0.2	0.81	4	<10	80	<0.5	3	1.20	<0.5	7	11	84	2.54
E443660		0.06	0.359	2.6	1.67	25	10	60	<0.5	2	0.82	2.0	10	29	2430	4.40
E443661		7.18	0.007	<0.2	0.68	19	<10	250	0.6	<2	1.41	<0.5	6	8	93	2.29
E443662		6.41	0.009	<0.2	0.44	28	<10	20	0.8	6	2.59	<0.5	7	4	146	2.94
E443663		6.20	0.008	0.2	0.40	113	<10	30	0.6	4	1.86	<0.5	7	5	149	2.13
E443664		6.54	0.010	<0.2	0.41	35	<10	30	0.5	<2	2.61	<0.5	6	5	52	1.94
E443665		6.88	0.020	0.2	0.34	23	<10	30	0.6	11	1.92	<0.5	6	4	112	1.98
E443666		7.15	0.123	0.9	0.25	14	<10	50	<0.5	73	1.39	0.5	7	6	618	2.18
E443667		6.52	0.020	<0.2	0.60	6	<10	240	<0.5	4	1.17	<0.5	6	8	99	2.32
E443668		7.51	0.009	<0.2	0.65	5	<10	60	<0.5	2	1.06	<0.5	6	11	111	2.17
E443669		7.36	0.070	<0.2	0.42	7	<10	60	<0.5	2	1.29	<0.5	7	7	101	2.15
E443670		0.35	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.14
E443671		6.87	0.015	<0.2	0.40	23	<10	50	0.5	2	1.02	<0.5	7	6	136	1.89
E443672		7.27	0.011	<0.2	0.53	6	<10	50	<0.5	2	1.14	<0.5	6	10	100	2.13
E443673		7.48	0.021	<0.2	0.56	9	<10	80	<0.5	10	1.13	<0.5	7	9	139	2.21
E443674		7.42	0.024	<0.2	0.37	15	<10	50	<0.5	9	0.92	<0.5	5	9	117	1.84
E443675		6.62	0.020	<0.2	0.41	62	<10	300	0.6	6	1.79	<0.5	5	5	152	1.80
E443676		7.15	0.186	0.6	0.45	23	<10	50	0.7	89	1.30	<0.5	5	5	415	1.95
E443677		7.31	0.277	0.3	0.40	76	<10	90	0.7	79	1.63	<0.5	7	5	260	2.19
E443678		6.88	0.025	<0.2	0.29	76	<10	30	0.7	<2	2.16	<0.5	6	4	113	2.04
E443679		7.09	0.021	0.3	0.41	22	<10	40	<0.5	8	1.36	<0.5	6	5	273	2.14
E443680		0.06	0.319	2.5	1.65	28	10	60	<0.5	3	0.82	2.2	9	27	2410	4.35
E443681		6.56	0.015	0.2	0.72	16	<10	80	<0.5	7	1.05	<0.5	6	10	193	2.06
E443682		6.71	0.005	<0.2	0.91	11	<10	120	<0.5	3	1.06	<0.5	6	12	148	2.28
E443683		6.52	0.006	<0.2	0.81	20	<10	90	<0.5	5	0.91	<0.5	6	10	139	1.99
E443684		7.47	0.011	0.2	0.81	5	<10	90	<0.5	11	0.84	<0.5	5	12	211	2.09
E443685		8.13	0.016	0.3	0.79	5	<10	100	<0.5	22	1.00	<0.5	6	12	121	2.10
E443686		7.13	0.014	0.3	0.81	13	<10	60	<0.5	2	1.15	<0.5	6	10	335	2.13
E443687		7.54	0.024	<0.2	0.79	10	<10	130	<0.5	12	1.19	<0.5	6	10	209	2.15
E443688		7.54	0.024	<0.2	0.63	28	<10	90	0.5	10	1.97	<0.5	5	9	100	2.20
E443689		6.59	0.037	<0.2	0.74	13	<10	40	<0.5	<2	1.45	<0.5	6	11	103	1.86
E443690		0.56	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.11

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443651		<10	1	0.01	<10	0.75	96	<1	0.01	<1	70	<2	<0.01	<2	<1	89
E443652		<10	1	0.31	20	0.66	202	1	0.08	4	680	5	0.38	<2	4	41
E443653		<10	1	0.29	20	0.66	196	5	0.07	4	640	4	0.53	4	5	64
E443654		<10	1	0.42	20	0.65	292	1	0.08	5	690	6	0.22	<2	4	50
E443655		10	<1	0.39	20	0.77	291	25	0.07	5	740	4	0.39	<2	6	61
E443656		10	1	0.42	20	0.74	314	9	0.08	6	760	4	0.33	<2	5	52
E443657		<10	<1	0.33	20	0.65	237	1	0.07	5	680	24	0.54	3	4	42
E443658		<10	<1	0.25	20	0.62	213	4	0.05	5	690	6	0.33	<2	4	74
E443659		<10	<1	0.23	20	0.64	291	5	0.05	6	670	5	0.35	<2	5	101
E443660		<10	1	0.28	<10	0.54	743	224	0.06	21	700	74	2.11	<2	2	56
E443661		<10	<1	0.25	20	0.59	248	15	0.04	4	620	7	0.37	8	4	107
E443662		<10	1	0.13	30	0.93	322	27	0.02	5	880	9	0.48	10	6	145
E443663		<10	<1	0.15	20	0.62	263	24	0.01	4	690	11	0.55	5	4	99
E443664		<10	<1	0.10	20	0.58	224	20	0.01	4	600	11	0.34	3	4	150
E443665		<10	1	0.14	20	0.56	221	11	0.02	3	500	11	0.43	<2	3	116
E443666		<10	<1	0.16	10	0.46	137	173	0.02	3	450	7	0.78	<2	2	99
E443667		<10	1	0.23	20	0.57	189	2	0.05	4	590	5	0.52	<2	4	87
E443668		<10	1	0.15	30	0.54	167	15	0.04	4	580	5	0.48	<2	4	67
E443669		<10	<1	0.16	20	0.49	176	2	0.04	4	580	4	0.48	<2	4	87
E443670		<10	1	0.01	<10	1.13	95	<1	0.01	<1	70	<2	0.02	<2	<1	83
E443671		<10	<1	0.17	20	0.37	121	1	0.03	3	460	6	0.56	<2	3	69
E443672		<10	<1	0.16	20	0.48	151	5	0.04	4	500	6	0.53	<2	4	69
E443673		<10	1	0.19	20	0.52	183	7	0.04	4	550	7	0.56	<2	3	71
E443674		<10	1	0.14	20	0.40	172	59	0.04	4	450	8	0.41	<2	3	64
E443675		<10	<1	0.16	20	0.55	186	32	0.02	3	400	11	0.49	<2	2	103
E443676		<10	<1	0.16	20	0.39	181	21	0.03	5	470	15	0.48	3	2	105
E443677		<10	<1	0.20	20	0.49	198	1	0.02	5	530	23	0.77	5	3	109
E443678		<10	<1	0.18	20	0.62	189	23	0.02	3	500	8	0.51	3	3	119
E443679		<10	<1	0.17	20	0.50	158	648	0.02	5	550	9	0.55	<2	3	88
E443680		<10	<1	0.28	<10	0.53	720	226	0.06	20	690	73	2.08	2	2	53
E443681		<10	<1	0.26	20	0.57	142	4	0.05	4	520	6	0.57	<2	4	48
E443682		<10	<1	0.33	20	0.65	162	2	0.06	4	570	5	0.53	<2	4	41
E443683		<10	<1	0.23	20	0.55	170	10	0.05	4	480	6	0.41	<2	3	34
E443684		<10	<1	0.27	20	0.55	147	12	0.06	3	520	5	0.50	<2	4	28
E443685		<10	<1	0.26	20	0.55	155	15	0.05	4	520	19	0.47	<2	4	50
E443686		<10	<1	0.18	20	0.53	145	14	0.05	3	520	4	0.63	<2	4	51
E443687		<10	1	0.25	20	0.52	173	5	0.06	4	530	7	0.39	<2	4	63
E443688		<10	1	0.22	20	0.65	206	23	0.05	5	530	14	0.39	<2	4	92
E443689		<10	1	0.19	20	0.48	118	29	0.05	3	480	5	0.39	<2	3	58
E443690		<10	1	0.01	<10	0.68	101	<1	0.01	<1	80	<2	0.01	<2	<1	86

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E443651		<20	<0.01	<10	<10	<1	<10	<2
E443652		20	0.13	<10	<10	53	20	20
E443653		20	0.05	<10	10	43	10	21
E443654		20	0.13	<10	10	55	10	22
E443655		20	0.10	<10	10	60	<10	24
E443656		20	0.14	<10	<10	64	10	24
E443657		<20	0.12	<10	<10	50	<10	39
E443658		20	0.06	<10	<10	44	20	21
E443659		20	0.04	<10	<10	44	10	21
E443660		<20	0.05	<10	<10	31	<10	452
E443661		20	0.03	<10	<10	29	20	22
E443662		20	<0.01	<10	10	25	<10	28
E443663		<20	<0.01	<10	<10	15	<10	34
E443664		20	<0.01	<10	10	16	<10	21
E443665		20	<0.01	<10	<10	9	<10	18
E443666		20	<0.01	<10	<10	6	20	29
E443667		20	0.03	<10	<10	31	<10	17
E443668		30	0.01	<10	<10	33	10	16
E443669		20	<0.01	<10	<10	20	<10	15
E443670		<20	<0.01	<10	<10	<1	<10	<2
E443671		20	<0.01	<10	<10	13	10	17
E443672		20	0.01	<10	10	23	100	16
E443673		20	0.02	<10	10	25	20	19
E443674		20	0.01	<10	10	18	50	16
E443675		20	<0.01	<10	10	7	30	17
E443676		20	<0.01	<10	10	8	<10	30
E443677		20	<0.01	<10	10	8	<10	19
E443678		20	<0.01	<10	10	9	<10	15
E443679		20	<0.01	<10	10	16	20	24
E443680		<20	0.04	<10	<10	30	<10	412
E443681		20	0.03	<10	10	31	30	19
E443682		20	0.07	<10	<10	44	20	16
E443683		20	0.08	<10	10	37	10	18
E443684		20	0.09	<10	10	40	40	18
E443685		20	0.05	<10	<10	35	10	17
E443686		20	0.02	<10	<10	34	20	22
E443687		20	0.04	<10	10	33	10	22
E443688		20	0.01	<10	<10	28	10	19
E443689		20	0.01	<10	10	26	100	15
E443690		<20	<0.01	<10	<10	1	<10	2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E443691		7.61	0.007	<0.2	0.98	16	<10	50	<0.5	<2	1.13	<0.5	6	11	108	2.09
E443692		6.98	0.005	<0.2	0.59	62	<10	50	0.5	<2	1.22	<0.5	5	7	93	1.88
E443693		6.87	0.030	<0.2	0.59	42	<10	40	0.5	7	1.21	<0.5	5	11	98	1.65
E443694		6.73	0.005	<0.2	0.24	14	<10	20	<0.5	<2	0.74	<0.5	3	11	52	0.88
E443695		7.71	<0.005	<0.2	0.55	9	<10	40	0.5	2	1.32	<0.5	6	9	119	1.75
E443696		6.21	0.007	<0.2	0.59	8	<10	40	<0.5	<2	1.06	<0.5	5	10	114	1.67
E443697		7.59	0.008	<0.2	0.57	9	<10	80	<0.5	2	0.83	<0.5	6	11	152	1.77
E443698		6.87	0.231	<0.2	0.17	6	<10	10	<0.5	2	0.61	<0.5	2	10	28	0.62
E443699		6.70	0.020	<0.2	0.69	6	<10	60	<0.5	2	1.12	<0.5	5	12	132	1.85
E443700		0.06	0.340	2.5	1.69	26	10	60	<0.5	2	0.83	2.1	9	28	2430	4.41
E443701		7.29	0.010	<0.2	0.84	6	<10	100	<0.5	<2	0.93	<0.5	6	11	144	2.15
E443702		7.27	0.392	0.4	0.65	72	<10	50	<0.5	13	1.64	<0.5	6	9	192	1.85
E443703		4.48	0.011	<0.2	0.23	14	<10	20	<0.5	2	0.98	<0.5	2	8	53	0.65
E443704		6.20	0.012	<0.2	0.85	3	<10	80	<0.5	4	0.75	<0.5	7	11	162	2.27
E443705		7.28	0.017	<0.2	0.82	4	<10	90	<0.5	3	0.73	<0.5	5	12	84	1.88
E443706		6.63	0.007	<0.2	0.84	3	<10	130	<0.5	2	0.70	<0.5	6	11	117	2.08
E443707		7.34	0.008	<0.2	0.88	25	<10	60	<0.5	3	1.07	<0.5	6	11	121	2.09
E443708		6.82	0.009	0.3	0.75	67	<10	50	<0.5	<2	1.35	<0.5	6	10	253	1.99
E443709		6.99	0.006	<0.2	0.95	23	<10	50	<0.5	2	0.99	<0.5	7	11	135	2.23
E443710		0.43	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.11
E443711		7.07	0.016	<0.2	1.00	8	<10	70	<0.5	<2	0.80	<0.5	8	12	159	2.36
E443712		7.30	0.007	0.2	0.88	7	<10	50	<0.5	2	0.89	<0.5	6	11	133	2.21
E443713		7.08	0.012	<0.2	0.84	11	<10	40	<0.5	<2	0.76	<0.5	5	11	100	1.92
E443714		7.37	0.007	<0.2	0.78	418	<10	60	<0.5	<2	1.12	<0.5	5	12	67	1.93
E443715		6.96	0.022	<0.2	0.81	13	<10	50	<0.5	2	0.91	<0.5	6	9	130	2.02
E443716		7.44	0.008	<0.2	0.87	12	<10	50	<0.5	<2	1.00	<0.5	5	10	118	1.98
E443717		6.54	0.006	<0.2	0.76	118	<10	50	<0.5	3	0.87	<0.5	6	11	98	1.93
E443718		6.87	0.015	<0.2	0.82	102	<10	40	<0.5	2	1.11	<0.5	7	10	113	2.04
E443719		7.67	0.098	0.7	0.79	49	<10	210	<0.5	7	1.53	<0.5	7	10	465	2.41
E443720		0.06	0.327	2.5	1.59	28	10	60	<0.5	<2	0.78	2.1	10	27	2380	4.32
E443721		3.81	0.127	1.1	0.40	26	<10	270	0.9	<2	5.92	0.6	6	4	378	3.43
E443722		10.79	0.019	0.3	0.48	19	<10	70	0.7	<2	1.02	<0.5	8	5	182	3.19
E443723		9.73	0.027	<0.2	0.41	13	<10	160	0.6	5	1.68	<0.5	6	5	179	2.90
E443724		10.26	0.073	0.5	0.56	8	<10	120	<0.5	7	1.79	<0.5	6	7	328	2.84
E443725		10.04	0.054	0.2	0.89	3	<10	80	<0.5	8	0.74	<0.5	8	9	293	3.49
E443726		8.90	0.072	0.8	0.94	15	<10	80	<0.5	4	0.84	<0.5	9	9	500	3.32
E443727		10.47	0.113	1.8	1.25	29	<10	70	<0.5	6	0.96	<0.5	9	10	954	3.57
E443728		10.23	0.059	1.0	1.20	5	<10	150	<0.5	5	1.04	<0.5	9	11	582	3.09
E443729		10.95	0.126	0.8	1.26	4	<10	160	<0.5	11	1.27	<0.5	9	11	471	3.28
E443730		0.54	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	3	0.12

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443691		10	<1	0.21	20	0.57	139	15	0.08	3	520	7	0.50	<2	4	56
E443692		<10	1	0.14	20	0.37	141	45	0.03	3	520	9	0.44	<2	3	60
E443693		<10	<1	0.16	20	0.32	131	8	0.05	3	370	9	0.39	<2	2	50
E443694		<10	<1	0.13	10	0.18	88	67	0.04	2	130	10	0.21	<2	1	34
E443695		<10	1	0.16	20	0.36	122	10	0.04	3	460	8	0.50	<2	3	49
E443696		<10	<1	0.13	20	0.36	122	25	0.05	3	450	9	0.46	<2	3	34
E443697		<10	<1	0.15	20	0.38	109	56	0.05	3	390	8	0.55	<2	3	30
E443698		<10	<1	0.12	10	0.11	79	12	0.04	1	20	11	0.10	<2	<1	28
E443699		<10	<1	0.19	20	0.41	133	4	0.06	3	440	5	0.43	<2	3	47
E443700		10	<1	0.28	<10	0.54	731	232	0.06	20	690	73	2.10	<2	2	53
E443701		<10	<1	0.27	20	0.57	132	5	0.06	4	540	4	0.57	<2	4	32
E443702		<10	<1	0.21	20	0.47	119	21	0.05	3	490	18	0.47	2	3	67
E443703		<10	<1	0.13	10	0.09	89	3	0.04	1	60	9	0.14	<2	<1	37
E443704		<10	<1	0.31	20	0.58	107	1	0.06	4	540	5	0.63	<2	4	31
E443705		<10	<1	0.26	20	0.48	134	1	0.07	4	480	5	0.32	<2	3	26
E443706		<10	<1	0.28	20	0.57	149	1	0.07	4	530	4	0.44	<2	4	27
E443707		<10	<1	0.18	20	0.56	150	1	0.07	4	530	5	0.47	<2	3	37
E443708		<10	1	0.16	20	0.44	166	<1	0.05	3	450	6	0.50	<2	3	39
E443709		10	<1	0.15	20	0.60	146	10	0.07	4	520	7	0.61	<2	4	38
E443710		<10	2	<0.01	<10	0.46	86	<1	0.02	<1	70	<2	0.01	<2	<1	87
E443711		10	<1	0.31	20	0.67	121	2	0.07	5	550	6	0.61	<2	4	31
E443712		10	1	0.21	30	0.57	142	58	0.05	4	590	6	0.49	<2	4	29
E443713		10	<1	0.14	20	0.49	160	29	0.07	4	450	7	0.39	<2	3	30
E443714		<10	<1	0.19	20	0.45	193	1	0.07	4	510	7	0.30	<2	4	47
E443715		<10	<1	0.15	20	0.50	136	8	0.06	4	510	6	0.49	<2	3	36
E443716		<10	1	0.19	20	0.51	118	23	0.06	4	500	3	0.44	<2	3	35
E443717		<10	1	0.17	20	0.48	152	2	0.06	4	470	5	0.42	<2	3	32
E443718		<10	<1	0.15	20	0.47	134	20	0.05	4	480	5	0.45	<2	3	44
E443719		<10	1	0.19	20	0.75	207	32	0.05	4	530	9	0.46	2	4	52
E443720		<10	<1	0.26	<10	0.52	725	213	0.06	19	690	74	2.09	2	2	53
E443721		<10	1	0.12	20	2.13	422	9	0.01	4	650	6	0.38	<2	5	157
E443722		<10	<1	0.17	20	0.30	171	9	0.02	6	860	6	0.21	<2	6	38
E443723		<10	<1	0.13	20	0.49	191	4	0.03	5	770	4	0.40	<2	6	59
E443724		<10	1	0.17	20	0.70	152	2	0.04	4	650	4	0.53	<2	5	67
E443725		10	<1	0.18	20	0.69	118	1	0.05	5	740	2	0.92	<2	5	33
E443726		10	1	0.20	20	0.70	143	7	0.05	6	790	6	0.90	<2	5	34
E443727		10	1	0.19	30	0.88	142	12	0.04	6	810	6	1.16	<2	5	52
E443728		10	<1	0.47	20	0.83	182	2	0.07	6	850	3	0.65	<2	6	45
E443729		10	<1	0.32	20	0.88	200	3	0.05	6	830	4	0.83	<2	6	40
E443730		<10	2	0.01	<10	0.39	96	<1	0.01	<1	70	<2	0.01	<2	<1	91

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E443691		20	0.03	<10	<10	38	20	19
E443692		20	<0.01	<10	<10	23	60	21
E443693		20	0.01	<10	20	19	50	20
E443694		20	<0.01	<10	30	4	70	12
E443695		20	0.01	<10	10	20	30	20
E443696		20	0.03	<10	10	28	120	19
E443697		20	0.05	<10	10	28	210	16
E443698		20	<0.01	<10	30	1	30	8
E443699		20	0.03	<10	<10	29	20	15
E443700		<20	0.04	<10	<10	30	<10	414
E443701		20	0.06	<10	<10	43	40	14
E443702		20	0.01	<10	<10	21	20	17
E443703		20	<0.01	<10	30	3	<10	11
E443704		40	0.10	<10	10	42	20	12
E443705		20	0.11	<10	10	38	20	13
E443706		20	0.11	<10	<10	43	10	13
E443707		20	0.05	<10	<10	40	<10	17
E443708		20	0.03	<10	10	30	<10	21
E443709		20	0.06	<10	<10	41	50	18
E443710		<20	<0.01	<10	<10	<1	<10	<2
E443711		20	0.12	<10	10	44	20	17
E443712		20	0.09	<10	10	41	20	20
E443713		20	0.07	<10	10	36	30	19
E443714		20	0.05	<10	10	37	10	18
E443715		20	0.05	<10	10	37	20	18
E443716		20	0.07	<10	<10	36	30	16
E443717		20	0.07	<10	10	37	10	17
E443718		20	0.02	<10	<10	36	120	19
E443719		20	0.06	<10	<10	39	10	29
E443720		<20	0.04	<10	<10	30	<10	447
E443721		<20	<0.01	<10	<10	29	<10	26
E443722		20	<0.01	<10	<10	32	<10	16
E443723		20	<0.01	<10	<10	34	<10	15
E443724		20	0.01	<10	<10	33	<10	13
E443725		20	0.01	<10	<10	47	<10	14
E443726		20	0.02	<10	<10	52	<10	25
E443727		20	0.02	<10	<10	61	<10	30
E443728		<20	0.10	<10	<10	69	<10	19
E443729		<20	0.07	<10	<10	65	<10	26
E443730		<20	<0.01	<10	<10	1	<10	<2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E443731		11.10	0.125	1.8	1.21	46	<10	70	<0.5	2	1.18	0.5	10	10	887	3.33
E443732		9.98	0.071	<0.2	1.57	2	<10	100	<0.5	11	0.95	<0.5	6	12	107	2.83
E443733		10.82	0.013	<0.2	1.14	32	<10	80	<0.5	<2	1.39	<0.5	5	9	51	2.19
E443734		8.93	0.029	<0.2	1.50	3	<10	100	<0.5	3	1.04	<0.5	7	13	110	2.98
E443735		8.72	0.033	0.2	1.46	16	<10	60	<0.5	3	1.62	<0.5	9	12	176	3.17
E443736		10.97	0.024	<0.2	1.39	8	<10	140	<0.5	2	0.87	<0.5	8	11	159	3.20
E443737		10.42	0.012	<0.2	1.33	<2	<10	270	<0.5	<2	0.77	<0.5	8	12	133	3.06
E443738		10.60	0.012	<0.2	1.19	6	<10	270	<0.5	<2	0.92	<0.5	7	12	86	2.81
E443739		10.50	0.009	<0.2	1.21	7	<10	260	<0.5	8	1.14	<0.5	9	11	49	2.96
E443740		0.06	0.338	2.8	1.63	25	10	60	<0.5	<2	0.80	2.1	10	27	2410	4.36
E443741		6.60	0.007	<0.2	1.06	6	<10	260	<0.5	2	1.14	<0.5	9	11	76	3.13
E443742		9.82	0.233	1.0	0.48	61	<10	70	0.7	32	2.42	<0.5	8	4	418	3.22
E443743		10.62	0.012	<0.2	1.04	5	<10	110	<0.5	2	1.72	<0.5	6	11	92	3.21
E443744		10.88	0.043	<0.2	0.93	5	<10	70	<0.5	5	0.81	<0.5	9	11	194	3.62
E443745		10.24	0.052	<0.2	1.13	<2	<10	110	<0.5	19	0.99	<0.5	10	12	217	3.66
E443746		10.29	0.023	<0.2	1.28	2	<10	130	<0.5	2	1.10	<0.5	7	13	90	3.13
E443747		10.23	0.014	<0.2	1.45	2	<10	100	<0.5	<2	1.20	<0.5	9	13	69	3.14
E443748		10.56	0.005	<0.2	1.43	<2	<10	130	<0.5	<2	1.08	<0.5	7	12	50	2.80
E443749		9.97	0.030	<0.2	1.54	3	<10	120	<0.5	<2	1.16	<0.5	8	13	111	3.34
E443750		0.41	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	<1	0.09
E443751		10.20	0.031	<0.2	1.34	3	<10	110	<0.5	2	1.38	<0.5	8	12	133	3.21
E443752		10.24	0.031	<0.2	1.48	2	<10	90	0.5	<2	1.86	<0.5	9	10	128	3.43
E443753		10.72	0.028	<0.2	1.43	2	<10	120	<0.5	2	1.40	<0.5	6	13	78	3.39
E443754		9.81	0.025	<0.2	1.18	5	<10	180	<0.5	3	1.56	<0.5	7	12	76	3.29
E443755		10.68	0.078	<0.2	1.50	2	<10	140	<0.5	7	0.90	<0.5	9	13	192	3.65
E443756		11.51	0.034	<0.2	1.26	2	<10	190	<0.5	11	1.02	<0.5	7	12	102	3.30
E443757		10.54	0.191	<0.2	1.24	<2	<10	210	<0.5	79	0.79	<0.5	7	13	156	3.36
E443758		10.79	0.026	0.2	1.36	3	<10	90	<0.5	6	0.93	<0.5	9	12	242	3.70
E443759		10.26	0.067	<0.2	1.44	3	<10	110	<0.5	13	1.09	<0.5	9	11	146	3.94
E443760		0.06	0.330	2.5	1.67	27	10	60	<0.5	2	0.80	2.1	11	28	2430	4.42
E443761		5.66	0.063	<0.2	1.30	3	<10	140	<0.5	20	1.10	<0.5	9	12	127	3.51
E443762		8.48	0.019	<0.2	1.23	3	<10	190	<0.5	4	1.06	<0.5	6	12	55	2.99
E443763		7.42	0.035	<0.2	0.52	4	<10	90	0.6	2	1.37	<0.5	9	5	157	3.10
E443764		10.76	0.147	0.6	0.54	9	<10	120	0.5	10	1.02	<0.5	13	6	416	3.61
E443765		7.57	0.113	0.5	0.58	10	<10	70	<0.5	19	0.93	<0.5	12	8	365	3.44
E443766		8.50	0.082	0.7	0.85	9	<10	130	<0.5	3	0.90	<0.5	11	10	511	3.58
E443767		6.42	0.143	<0.2	1.00	7	<10	140	0.5	2	1.18	<0.5	9	8	180	3.36
K917851		10.98	0.026	<0.2	1.07	23	<10	70	<0.5	<2	1.28	<0.5	7	11	72	2.88
K917852		9.94	0.024	<0.2	0.55	27	<10	70	0.6	<2	1.69	<0.5	7	6	79	2.45
K917853		10.83	0.020	<0.2	1.08	7	<10	150	<0.5	2	0.95	<0.5	6	12	66	2.72

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
E443731		10	<1	0.25	20	0.83	178	4	0.04	5	880	10	1.14	<2	5	34
E443732		10	<1	0.43	20	0.92	158	<1	0.12	6	810	2	0.58	<2	5	43
E443733		10	1	0.36	20	0.65	150	1	0.09	4	610	3	0.36	<2	4	62
E443734		10	1	0.30	20	0.86	164	1	0.10	5	720	<2	0.73	<2	5	47
E443735		10	<1	0.23	30	0.97	154	1	0.07	5	820	2	0.88	<2	5	65
E443736		10	1	0.38	30	0.92	202	1	0.08	5	830	3	0.76	<2	5	43
E443737		10	1	0.54	20	0.86	239	<1	0.09	5	800	3	0.64	<2	5	38
E443738		<10	<1	0.58	20	0.82	305	1	0.08	6	860	3	0.26	<2	4	58
E443739		<10	<1	0.55	20	0.79	312	1	0.09	5	870	2	0.42	<2	6	72
E443740		10	1	0.27	<10	0.53	730	216	0.06	20	700	72	2.11	<2	2	54
E443741		<10	1	0.54	20	0.80	276	1	0.08	7	830	2	0.53	<2	6	68
E443742		<10	<1	0.17	10	0.53	205	995	0.01	5	690	17	2.21	3	4	180
E443743		<10	<1	0.39	20	0.88	269	3	0.07	6	900	5	0.62	<2	7	150
E443744		10	1	0.26	20	0.82	158	<1	0.06	7	790	2	1.29	2	6	58
E443745		10	1	0.25	20	0.81	165	<1	0.07	6	790	3	1.25	<2	6	68
E443746		10	<1	0.33	20	0.84	184	<1	0.08	6	830	<2	0.72	<2	6	69
E443747		10	<1	0.42	20	0.95	179	<1	0.08	6	860	2	0.67	2	6	57
E443748		10	<1	0.58	20	0.95	195	1	0.10	9	880	5	0.48	<2	5	57
E443749		10	1	0.38	30	0.95	181	1	0.10	6	870	3	0.82	<2	6	72
E443750		<10	2	0.01	<10	0.73	85	<1	0.01	<1	80	<2	0.01	<2	<1	94
E443751		10	<1	0.33	20	0.89	169	2	0.08	6	860	<2	0.79	<2	6	77
E443752		10	<1	0.20	20	0.85	162	1	0.06	6	850	3	0.87	<2	5	117
E443753		10	1	0.38	20	0.89	196	<1	0.09	7	890	2	0.63	<2	7	75
E443754		10	1	0.38	20	0.83	224	<1	0.06	6	850	<2	0.73	<2	6	96
E443755		10	1	0.35	20	0.91	154	<1	0.09	6	850	3	1.15	<2	6	61
E443756		10	1	0.46	20	0.88	217	<1	0.08	6	870	<2	0.78	<2	6	65
E443757		10	1	0.38	20	0.86	170	1	0.08	5	850	4	0.89	2	6	62
E443758		10	<1	0.24	20	0.96	156	6	0.07	6	850	3	1.15	<2	6	88
E443759		10	<1	0.41	20	1.01	193	<1	0.08	7	920	2	1.15	<2	7	94
E443760		<10	1	0.28	<10	0.53	741	235	0.06	21	710	74	2.13	2	2	55
E443761		10	<1	0.42	20	0.95	202	1	0.08	6	900	3	0.85	<2	7	94
E443762		10	<1	0.61	20	0.82	243	<1	0.10	6	880	3	0.41	<2	6	79
E443763		<10	<1	0.17	20	0.40	192	<1	0.04	6	890	6	1.15	<2	5	161
E443764		<10	<1	0.17	20	0.45	112	117	0.04	6	850	4	1.84	<2	5	116
E443765		<10	<1	0.16	20	0.53	107	15	0.05	6	850	4	1.69	<2	5	89
E443766		<10	1	0.26	20	0.74	139	17	0.06	7	860	4	1.45	<2	5	76
E443767		<10	1	0.30	20	0.68	207	1	0.05	7	880	5	0.84	2	6	129
K917851		10	1	0.19	20	0.62	237	<1	0.07	5	680	5	0.40	2	5	87
K917852		<10	<1	0.18	20	0.58	246	9	0.04	5	680	8	0.49	<2	4	99
K917853		<10	<1	0.41	30	0.68	243	<1	0.07	5	760	6	0.35	<2	4	47

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
E443731		20	0.03	<10	<10	61	<10	40
E443732		20	0.11	<10	<10	68	<10	14
E443733		20	0.05	<10	10	43	<10	10
E443734		<20	0.05	<10	<10	56	<10	12
E443735		20	0.03	<10	<10	62	<10	14
E443736		20	0.09	<10	<10	64	10	15
E443737		<20	0.15	<10	<10	66	<10	16
E443738		<20	0.16	<10	<10	66	<10	21
E443739		<20	0.12	<10	<10	64	<10	20
E443740		<20	0.04	<10	<10	30	<10	453
E443741		<20	0.11	<10	<10	60	<10	20
E443742		<20	<0.01	<10	<10	18	<10	34
E443743		20	0.04	<10	<10	51	<10	19
E443744		20	0.03	<10	<10	50	<10	13
E443745		<20	0.04	<10	<10	58	<10	15
E443746		<20	0.07	<10	<10	67	<10	14
E443747		<20	0.10	<10	<10	67	<10	13
E443748		<20	0.15	<10	<10	65	<10	17
E443749		20	0.08	<10	<10	68	<10	15
E443750		<20	<0.01	<10	<10	<1	<10	<2
E443751		<20	0.05	<10	<10	61	<10	16
E443752		<20	0.02	<10	<10	54	<10	15
E443753		<20	0.07	<10	<10	66	<10	16
E443754		<20	0.07	<10	<10	56	<10	16
E443755		<20	0.07	<10	<10	68	<10	15
E443756		<20	0.10	<10	<10	67	<10	16
E443757		<20	0.09	<10	<10	68	<10	15
E443758		<20	0.04	<10	<10	65	<10	17
E443759		<20	0.08	<10	<10	75	<10	16
E443760		<20	0.04	<10	<10	31	<10	455
E443761		<20	0.09	<10	<10	73	<10	16
E443762		<20	0.14	<10	<10	66	<10	18
E443763		<20	<0.01	<10	<10	29	<10	18
E443764		<20	<0.01	<10	<10	32	<10	17
E443765		<20	0.01	<10	<10	37	<10	16
E443766		<20	0.03	<10	<10	48	<10	20
E443767		20	0.04	<10	<10	46	<10	22
K917851		20	0.04	<10	<10	52	<10	22
K917852		20	0.02	<10	<10	29	<10	20
K917853		20	0.12	<10	10	59	10	19

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917854		10.74	0.008	<0.2	0.93	2	<10	170	<0.5	<2	0.57	<0.5	5	12	53	2.13
K917855		10.35	0.010	<0.2	1.32	6	<10	130	<0.5	<2	0.81	<0.5	8	10	73	2.83
K917856		11.50	<0.005	<0.2	0.95	7	<10	120	<0.5	<2	0.90	<0.5	6	10	47	2.30
K917857		11.15	0.019	<0.2	0.94	7	<10	190	<0.5	2	0.87	<0.5	6	11	47	2.28
K917858		10.69	<0.005	<0.2	0.67	26	<10	80	<0.5	<2	1.09	<0.5	6	9	38	2.04
K917859		10.67	0.060	<0.2	0.66	116	<10	50	0.6	<2	2.15	<0.5	8	6	97	2.69
K917860		0.06	0.709	2.8	1.13	13	10	110	<0.5	2	0.74	<0.5	10	45	7590	2.47
K917861		11.55	0.011	<0.2	0.86	17	<10	140	<0.5	<2	0.99	<0.5	7	10	49	2.35
K917862		9.93	0.010	<0.2	1.06	39	<10	170	<0.5	<2	1.06	<0.5	8	10	88	3.04
K917863		9.77	0.036	<0.2	1.06	7	<10	110	<0.5	<2	0.84	<0.5	7	11	73	2.41
K917864		5.29	0.007	<0.2	1.04	8	<10	110	<0.5	<2	1.00	<0.5	6	11	75	2.47
K917865		6.80	0.020	<0.2	1.30	12	<10	130	<0.5	2	0.95	<0.5	8	11	124	3.05
K917866		6.81	0.014	0.4	1.17	15	<10	90	<0.5	<2	0.89	<0.5	10	11	244	2.89
K917867		7.11	0.031	0.3	1.04	76	<10	110	<0.5	<2	1.02	<0.5	7	11	128	2.74
K917868		6.37	0.035	0.3	1.33	45	<10	60	0.6	9	1.07	<0.5	11	10	190	2.90
K917869		5.69	0.035	<0.2	0.46	70	<10	180	1.0	<2	1.54	<0.5	5	4	139	1.94
K917870		0.45	<0.005	<0.2	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	<1	1	1	0.09
K917871		6.64	0.094	0.3	0.38	121	<10	50	0.8	2	2.09	<0.5	9	4	187	3.06
K917872		6.90	0.048	0.3	0.73	19	<10	40	0.6	<2	1.30	<0.5	10	8	217	2.94
K917873		6.76	0.044	0.2	1.20	14	<10	80	<0.5	2	1.33	<0.5	9	11	154	2.99
K917874		6.41	0.017	<0.2	0.90	18	<10	70	0.5	<2	1.25	<0.5	7	9	102	2.64
K917875		7.07	0.030	0.2	0.97	11	<10	70	0.5	<2	1.25	<0.5	10	9	142	2.79
K917876		4.80	0.029	0.2	0.95	9	<10	40	0.6	<2	1.33	<0.5	7	9	105	2.76
K917877		3.89	0.041	0.3	0.50	22	<10	310	0.5	7	3.02	<0.5	6	6	218	2.53
K917878		4.67	0.013	<0.2	1.18	8	<10	80	<0.5	<2	1.24	<0.5	6	11	79	2.73
K917879		6.79	0.040	0.2	1.21	7	<10	70	<0.5	2	1.09	<0.5	7	11	170	2.83
K917880		0.06	0.327	2.6	1.72	27	10	60	<0.5	2	0.86	2.2	10	29	2470	4.47
K917881		6.51	0.034	0.4	1.22	12	<10	70	0.5	3	1.24	<0.5	10	11	221	2.91
K917882		7.10	0.021	<0.2	1.16	10	<10	80	<0.5	<2	0.99	<0.5	8	11	100	2.57
K917883		6.42	0.017	<0.2	1.17	10	<10	90	<0.5	<2	1.02	<0.5	8	12	94	2.73
K917884		5.99	0.194	0.2	1.07	8	<10	130	<0.5	7	1.00	<0.5	8	10	157	2.61
K917885		6.75	0.033	<0.2	1.04	6	<10	160	<0.5	<2	0.70	<0.5	6	11	58	2.29
K917886		5.84	0.029	<0.2	1.06	16	<10	140	<0.5	3	1.01	<0.5	8	11	105	2.59
K917887		6.40	0.015	<0.2	0.92	5	<10	210	<0.5	3	0.76	<0.5	6	10	31	2.26
K917888		6.06	0.024	<0.2	0.99	4	<10	170	<0.5	<2	0.77	<0.5	6	13	42	2.26
K917889		6.97	0.015	<0.2	0.91	26	<10	80	<0.5	<2	1.21	<0.5	10	11	86	2.48
K917890		0.41	<0.005	<0.2	0.01	<2	<10	20	<0.5	3	>25.0	<0.5	<1	<1	1	0.06
K917891		6.96	0.011	<0.2	0.58	40	<10	60	0.7	<2	2.28	<0.5	11	7	110	3.31
K917892		6.79	0.006	<0.2	0.84	14	<10	100	0.5	<2	1.61	<0.5	7	8	54	2.75
K917893		7.25	0.013	<0.2	0.66	14	<10	100	0.5	<2	1.68	<0.5	8	8	52	2.56

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917854		<10	<1	0.31	20	0.62	196	1	0.08	4	630	4	0.24	<2	3	32
K917855		10	1	0.46	20	0.87	230	<1	0.10	4	850	3	0.37	<2	5	42
K917856		<10	1	0.29	20	0.58	241	<1	0.08	4	640	5	0.26	<2	3	42
K917857		<10	<1	0.39	20	0.57	267	2	0.08	4	640	3	0.26	<2	4	46
K917858		<10	1	0.21	20	0.37	281	<1	0.06	4	560	5	0.21	<2	4	47
K917859		<10	1	0.11	20	0.52	324	<1	0.05	4	650	4	0.83	2	4	91
K917860		<10	1	0.09	<10	0.51	388	359	0.08	31	490	5	0.60	<2	4	37
K917861		<10	1	0.31	20	0.51	283	1	0.08	5	660	7	0.28	<2	4	53
K917862		10	1	0.39	30	0.62	277	<1	0.06	5	830	3	0.46	2	5	51
K917863		<10	<1	0.32	20	0.63	179	<1	0.09	5	670	4	0.34	<2	4	40
K917864		<10	<1	0.31	20	0.65	216	<1	0.08	4	690	3	0.35	<2	4	38
K917865		10	<1	0.45	20	0.82	177	<1	0.07	6	770	3	0.58	<2	6	50
K917866		10	<1	0.33	20	0.78	142	<1	0.06	5	700	4	0.71	<2	5	39
K917867		10	<1	0.34	20	0.80	154	3	0.05	5	750	4	0.53	3	5	37
K917868		10	<1	0.30	20	0.88	107	1	0.05	4	700	4	0.82	3	5	49
K917869		<10	<1	0.18	20	0.54	122	2	0.01	4	670	4	0.60	4	3	131
K917870		<10	<1	<0.01	<10	0.50	102	<1	0.01	<1	70	<2	0.01	<2	<1	83
K917871		<10	1	0.18	20	0.74	179	1	0.01	5	700	7	1.17	6	4	122
K917872		<10	<1	0.19	20	0.69	130	1	0.02	4	680	3	0.89	3	4	81
K917873		10	<1	0.29	20	0.75	179	1	0.05	5	700	5	0.71	<2	5	62
K917874		<10	<1	0.18	30	0.52	233	<1	0.05	6	720	6	0.48	3	5	66
K917875		<10	<1	0.25	20	0.69	176	<1	0.04	5	760	4	0.65	<2	5	60
K917876		<10	<1	0.15	30	0.63	182	1	0.04	5	740	6	0.55	<2	5	83
K917877		<10	<1	0.15	20	0.69	245	70	0.03	4	610	5	0.58	3	3	143
K917878		10	<1	0.33	30	0.76	210	<1	0.07	5	720	4	0.44	<2	5	58
K917879		10	<1	0.27	20	0.80	161	1	0.06	5	690	3	0.55	<2	5	47
K917880		<10	<1	0.31	<10	0.58	754	244	0.06	20	720	76	2.22	2	2	56
K917881		10	<1	0.25	20	0.79	168	1	0.05	5	700	6	0.79	<2	5	62
K917882		10	<1	0.33	20	0.74	167	5	0.07	5	660	5	0.48	<2	5	49
K917883		10	<1	0.37	20	0.81	194	2	0.07	5	730	6	0.40	<2	5	42
K917884		<10	<1	0.35	20	0.74	158	15	0.06	5	680	4	0.59	<2	4	39
K917885		<10	<1	0.43	20	0.67	181	1	0.08	5	690	3	0.27	<2	3	38
K917886		<10	<1	0.38	20	0.69	202	<1	0.06	5	700	4	0.48	<2	4	65
K917887		<10	<1	0.37	20	0.58	265	<1	0.09	4	720	4	0.16	<2	3	41
K917888		<10	<1	0.35	20	0.65	187	<1	0.08	4	710	4	0.22	<2	3	36
K917889		<10	<1	0.26	20	0.70	173	<1	0.06	4	670	5	0.43	<2	4	51
K917890		<10	<1	<0.01	<10	0.45	90	<1	0.01	<1	60	<2	0.01	2	<1	90
K917891		<10	<1	0.16	20	0.66	238	<1	0.03	5	680	9	1.25	3	4	144
K917892		<10	<1	0.25	30	0.72	295	<1	0.04	5	720	5	0.31	2	5	109
K917893		<10	<1	0.26	20	0.61	335	<1	0.05	5	710	5	0.28	2	5	107

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
K917854		20	0.14	<10	10	49	<10	14
K917855		20	0.18	<10	<10	70	<10	18
K917856		20	0.10	<10	<10	50	<10	17
K917857		<20	0.11	<10	10	50	<10	18
K917858		20	0.04	<10	10	35	<10	16
K917859		20	0.01	<10	<10	32	<10	18
K917860		<20	0.11	<10	<10	48	30	56
K917861		20	0.09	<10	10	48	<10	19
K917862		30	0.11	<10	10	59	<10	18
K917863		20	0.10	<10	10	52	<10	15
K917864		20	0.10	<10	<10	55	<10	16
K917865		20	0.11	<10	10	67	<10	16
K917866		20	0.07	<10	10	57	<10	15
K917867		20	0.07	<10	10	53	60	17
K917868		20	0.03	<10	10	51	<10	16
K917869		<20	<0.01	<10	<10	13	<10	12
K917870		<20	<0.01	<10	<10	<1	<10	<2
K917871		20	<0.01	<10	10	16	<10	15
K917872		20	0.01	<10	10	33	<10	13
K917873		20	0.05	<10	10	56	<10	16
K917874		20	0.02	<10	<10	45	<10	18
K917875		20	0.03	<10	<10	46	<10	17
K917876		20	0.01	<10	<10	46	<10	17
K917877		<20	<0.01	<10	10	27	<10	16
K917878		20	0.08	<10	<10	58	<10	18
K917879		20	0.05	<10	<10	53	<10	15
K917880		<20	0.05	<10	<10	32	<10	433
K917881		20	0.04	<10	10	54	10	19
K917882		20	0.08	<10	10	54	<10	17
K917883		20	0.11	<10	10	59	<10	18
K917884		20	0.09	<10	<10	53	20	14
K917885		20	0.15	<10	10	56	<10	14
K917886		20	0.09	<10	10	53	<10	16
K917887		20	0.15	<10	<10	53	<10	19
K917888		20	0.16	<10	<10	53	<10	14
K917889		20	0.09	<10	10	47	<10	15
K917890		<20	<0.01	<10	<10	<1	<10	<2
K917891		20	<0.01	<10	10	27	<10	19
K917892		20	0.05	<10	<10	44	<10	18
K917893		20	0.03	<10	<10	40	<10	19

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
K917894		6.42	0.008	<0.2	0.65	12	<10	140	0.6	<2	2.06	<0.5	7	7	50	2.68
K917895		6.39	0.014	<0.2	0.76	16	<10	260	0.6	<2	1.51	<0.5	6	8	61	2.37
K917896		6.57	0.010	<0.2	0.71	12	<10	170	0.6	2	1.50	<0.5	8	8	74	2.79
K917897		3.33	0.010	<0.2	0.67	7	<10	60	<0.5	<2	1.25	<0.5	9	9	123	2.79
K917898		4.04	0.020	0.2	0.82	13	<10	60	0.5	<2	1.07	<0.5	14	9	189	3.09
K917899		5.22	0.028	0.2	0.32	18	<10	60	0.5	4	1.90	<0.5	5	4	114	1.85
K917900		0.06	0.319	2.6	1.75	30	10	70	<0.5	<2	0.86	2.2	10	30	2490	4.48
K917901		6.69	0.010	0.2	0.32	18	<10	60	0.5	<2	1.64	<0.5	7	4	132	1.61
K917902		6.63	0.012	<0.2	0.42	22	<10	60	0.8	<2	2.04	<0.5	9	5	92	2.77
K917903		6.49	<0.005	<0.2	0.75	30	<10	140	<0.5	<2	1.27	<0.5	7	9	41	2.35
K917904		6.17	0.009	<0.2	0.35	32	<10	150	0.8	<2	2.33	<0.5	7	5	64	2.74
K917905		5.55	0.017	<0.2	0.35	112	<10	760	0.9	<2	1.90	<0.5	7	3	85	2.59
K917906		5.74	0.010	0.2	0.32	132	<10	480	0.8	<2	1.50	<0.5	6	3	80	2.17
K917907		5.51	0.022	0.2	0.31	139	<10	50	0.8	2	2.39	<0.5	6	3	155	2.30
K917908		5.86	0.034	0.5	0.31	37	<10	190	0.5	3	1.78	<0.5	8	5	328	1.91
K917909		7.28	0.016	0.2	0.32	126	<10	140	0.7	<2	2.12	<0.5	7	4	151	2.59
K917910		0.40	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.11
K917911		6.26	0.010	<0.2	0.43	22	<10	170	0.6	2	1.68	<0.5	8	6	94	2.60
K917912		6.58	0.018	0.2	0.36	21	<10	50	0.6	3	2.39	<0.5	8	5	168	2.80
K917913		6.63	0.100	0.9	0.33	51	<10	70	0.5	12	2.01	<0.5	13	5	644	3.64
K917914		6.36	0.097	1.0	0.37	17	<10	50	0.5	6	2.02	<0.5	12	5	546	3.66
K917915		6.64	0.053	0.3	0.91	9	<10	200	<0.5	3	0.99	<0.5	8	10	235	2.60
K917916		6.16	0.019	<0.2	0.73	17	<10	140	0.5	2	1.61	<0.5	8	7	116	2.99
K917917		6.41	0.027	<0.2	0.36	25	<10	40	0.5	2	1.67	<0.5	10	5	165	2.76
K917918		6.94	0.233	0.3	0.41	26	<10	40	0.6	11	1.46	<0.5	11	7	292	3.24
K917919		6.50	0.040	0.2	0.37	972	<10	20	0.7	4	2.03	<0.5	9	5	212	2.53
K917920		0.06	0.293	2.5	1.58	29	10	60	<0.5	<2	0.81	2.1	10	28	2430	4.39
K917921		2.56	0.180	0.5	0.43	54	<10	40	0.5	40	0.76	<0.5	19	6	452	3.63
K917922		3.42	2.82	1.5	1.01	81	<10	60	0.6	621	0.49	<0.5	57	6	1190	8.36
K917923		6.56	0.030	0.3	0.40	221	<10	50	0.6	4	1.58	<0.5	12	5	309	3.55
K917924		6.52	0.008	0.2	0.81	20	<10	60	<0.5	<2	1.04	<0.5	9	9	161	2.94
K917925		6.04	0.006	<0.2	0.47	251	<10	40	0.7	2	2.20	<0.5	7	5	66	2.46
K917926		5.84	0.009	0.2	0.81	13	<10	160	<0.5	3	1.26	<0.5	8	11	174	2.70
K917927		6.58	<0.005	<0.2	0.97	6	<10	110	<0.5	<2	1.37	<0.5	7	11	40	2.46
K917928		5.55	<0.005	<0.2	0.93	11	<10	30	<0.5	<2	1.54	<0.5	7	8	44	2.34
K917929		6.71	0.005	<0.2	1.04	10	<10	50	0.5	<2	1.53	<0.5	7	9	52	2.53
K917930		0.41	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	<1	0.10
K917931		6.66	0.007	<0.2	0.77	14	<10	60	0.7	2	2.01	<0.5	7	7	59	2.39
K917932		6.15	0.011	<0.2	0.84	11	<10	50	0.6	<2	2.03	<0.5	7	7	62	2.37
K917933		6.60	0.007	<0.2	0.57	13	<10	30	0.6	2	1.67	<0.5	6	6	92	2.29

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917894		<10	<1	0.26	30	0.74	359	<1	0.04	4	720	5	0.27	<2	5	103
K917895		<10	<1	0.21	20	0.57	262	1	0.04	4	620	5	0.37	<2	4	116
K917896		<10	<1	0.26	30	0.65	253	1	0.04	5	760	5	0.37	2	5	86
K917897		<10	<1	0.15	30	0.62	202	1	0.05	5	710	4	0.55	<2	5	90
K917898		<10	<1	0.22	20	0.61	157	1	0.05	5	730	5	0.79	<2	5	76
K917899		<10	<1	0.21	20	0.56	166	25	0.02	3	710	6	0.33	2	3	83
K917900		<10	<1	0.31	<10	0.58	761	254	0.06	22	730	77	2.24	2	2	56
K917901		<10	<1	0.22	20	0.44	116	1	0.03	2	740	6	0.52	2	3	72
K917902		<10	<1	0.24	20	0.62	254	1	0.03	5	760	7	0.41	<2	5	126
K917903		<10	<1	0.42	20	0.61	279	<1	0.07	4	690	6	0.21	<2	4	69
K917904		<10	<1	0.14	20	0.85	291	8	0.02	4	660	9	0.34	<2	5	97
K917905		<10	<1	0.18	10	0.68	234	1	0.02	4	630	10	0.38	5	5	100
K917906		<10	<1	0.17	10	0.50	206	<1	0.02	4	530	11	0.39	5	4	97
K917907		<10	<1	0.20	10	0.73	171	1	0.02	3	520	10	0.84	4	3	92
K917908		<10	<1	0.19	10	0.50	118	4	0.02	3	650	9	0.78	3	2	89
K917909		<10	<1	0.16	20	0.76	179	1	0.02	3	600	8	0.75	9	4	83
K917910		<10	<1	0.01	<10	0.83	103	<1	0.01	<1	70	<2	0.03	<2	<1	77
K917911		<10	<1	0.15	20	0.61	254	1	0.03	4	690	7	0.40	<2	5	88
K917912		<10	<1	0.10	20	0.74	178	2	0.03	4	680	7	0.77	<2	5	113
K917913		<10	<1	0.13	20	0.71	175	4	0.04	3	610	4	1.84	<2	4	99
K917914		<10	<1	0.12	20	0.66	188	2	0.02	5	620	4	1.50	<2	4	92
K917915		<10	<1	0.38	20	0.62	178	<1	0.06	5	680	5	0.50	<2	5	54
K917916		<10	<1	0.26	20	0.72	215	1	0.04	4	660	6	0.68	<2	5	91
K917917		<10	<1	0.08	20	0.69	191	3	0.02	5	740	8	0.67	<2	6	115
K917918		<10	<1	0.10	20	0.50	187	2	0.02	6	830	8	1.02	2	7	87
K917919		<10	<1	0.11	30	0.61	151	<1	0.02	5	680	8	0.75	8	5	98
K917920		<10	<1	0.27	<10	0.55	727	221	0.06	20	690	75	2.12	<2	2	52
K917921		<10	<1	0.17	20	0.44	109	1	0.03	5	670	7	1.47	4	4	48
K917922		10	<1	0.46	20	0.70	130	15	0.04	7	530	10	3.87	9	5	47
K917923		<10	<1	0.17	20	0.60	173	55	0.03	3	650	7	1.15	7	3	84
K917924		<10	<1	0.18	20	0.67	167	1	0.05	4	660	4	0.82	<2	5	79
K917925		<10	<1	0.11	20	0.47	290	<1	0.03	4	690	9	0.33	<2	4	198
K917926		<10	<1	0.36	20	0.69	305	12	0.07	5	740	5	0.42	<2	4	71
K917927		<10	<1	0.37	20	0.68	316	1	0.07	4	680	5	0.23	<2	5	81
K917928		<10	<1	0.13	20	0.55	280	<1	0.04	4	650	8	0.34	<2	4	109
K917929		10	<1	0.20	20	0.65	264	1	0.06	5	690	6	0.31	<2	4	103
K917930		<10	1	0.01	<10	0.61	100	<1	0.02	<1	70	<2	0.02	<2	<1	84
K917931		<10	<1	0.13	20	0.60	316	7	0.04	4	680	5	0.39	<2	4	153
K917932		<10	<1	0.17	30	0.55	300	1	0.04	5	690	6	0.34	<2	4	155
K917933		<10	<1	0.13	30	0.49	276	<1	0.05	5	680	6	0.30	<2	4	115

***** See Appendix Page for comments regarding this certificate *****

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917894		20	0.03	<10	<10	36	<10	21
K917895		20	0.03	<10	10	37	<10	19
K917896		20	0.04	<10	<10	42	<10	19
K917897		20	0.01	<10	<10	40	<10	15
K917898		20	0.02	<10	<10	41	<10	16
K917899		20	<0.01	<10	<10	12	<10	14
K917900		<20	0.05	<10	<10	32	<10	438
K917901		20	<0.01	<10	<10	9	<10	14
K917902		20	<0.01	<10	10	20	<10	17
K917903		20	0.08	<10	<10	42	<10	21
K917904		20	<0.01	<10	<10	21	<10	18
K917905		<20	<0.01	<10	<10	14	<10	16
K917906		<20	<0.01	<10	10	11	<10	14
K917907		<20	<0.01	<10	<10	10	<10	13
K917908		<20	<0.01	<10	<10	7	<10	17
K917909		<20	<0.01	<10	<10	13	<10	12
K917910		<20	<0.01	<10	<10	<1	<10	2
K917911		20	0.01	<10	<10	28	<10	18
K917912		<20	<0.01	<10	<10	25	<10	15
K917913		<20	<0.01	<10	<10	23	<10	14
K917914		<20	<0.01	<10	<10	24	<10	14
K917915		20	0.09	<10	<10	50	<10	16
K917916		20	0.05	<10	10	42	10	16
K917917		20	<0.01	<10	<10	30	<10	16
K917918		20	<0.01	<10	<10	34	<10	18
K917919		20	<0.01	<10	<10	25	<10	15
K917920		<20	0.04	<10	<10	30	<10	429
K917921		20	0.01	<10	<10	26	<10	14
K917922		<20	0.02	<10	10	45	<10	23
K917923		20	<0.01	<10	<10	22	<10	18
K917924		20	0.02	<10	<10	38	<10	16
K917925		20	<0.01	<10	<10	27	<10	18
K917926		20	0.08	<10	<10	48	<10	21
K917927		20	0.08	<10	<10	51	<10	19
K917928		20	<0.01	<10	<10	35	<10	18
K917929		20	0.03	<10	<10	43	<10	19
K917930		<20	<0.01	<10	<10	<1	<10	2
K917931		20	0.01	<10	10	34	<10	18
K917932		20	0.01	<10	<10	35	<10	18
K917933		20	0.01	<10	<10	30	<10	18

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VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K917934		6.56	0.014	<0.2	0.84	32	<10	40	0.5	2	1.64	<0.5	7	8	75	2.67
K917935		6.70	0.013	<0.2	1.19	10	<10	70	<0.5	<2	1.14	<0.5	5	13	36	2.52
K917936		6.34	0.012	<0.2	1.21	72	<10	90	<0.5	2	1.07	<0.5	6	11	106	2.60
K917937		6.79	0.011	<0.2	1.01	11	<10	70	<0.5	<2	1.46	<0.5	5	11	51	2.32
K917938		6.43	0.006	<0.2	1.07	11	<10	50	<0.5	<2	1.43	<0.5	5	10	59	2.39
K917939		7.28	0.007	<0.2	1.18	35	<10	70	<0.5	6	1.16	<0.5	7	10	125	2.59
K917940		0.06	0.323	2.4	1.63	26	10	60	<0.5	2	0.60	2.1	10	28	2430	4.40
K917941		6.69	0.008	<0.2	1.24	17	<10	60	<0.5	<2	1.10	<0.5	8	10	138	2.55
K917942		6.86	<0.005	<0.2	0.90	15	<10	60	<0.5	<2	1.39	<0.5	6	9	46	2.40
K917943		6.39	<0.005	<0.2	0.85	13	<10	60	<0.5	<2	1.63	<0.5	6	8	86	2.54
K917944		7.80	0.005	<0.2	1.02	6	<10	150	<0.5	<2	1.18	<0.5	6	11	64	2.36
K917945		5.40	0.025	<0.2	0.98	11	<10	100	<0.5	<2	0.75	<0.5	6	10	56	2.12
K917946		7.42	0.006	<0.2	0.91	68	<10	70	<0.5	2	1.39	<0.5	6	9	49	2.15
K917947		6.94	0.012	<0.2	1.04	473	<10	80	<0.5	2	1.45	<0.5	7	9	61	2.41
K917948		7.31	0.015	<0.2	1.06	12	<10	130	<0.5	<2	1.00	<0.5	7	10	107	2.47
K917949		6.59	0.017	<0.2	0.99	8	<10	100	<0.5	3	1.18	<0.5	5	10	62	2.25
K917950		0.37	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
K917951		6.79	0.009	<0.2	0.98	30	<10	60	0.5	4	1.50	<0.5	9	8	144	2.67
K917952		5.45	<0.005	<0.2	0.99	12	<10	80	0.5	2	1.56	<0.5	6	11	50	2.49
K917953		5.75	0.009	<0.2	0.58	22	<10	70	0.6	<2	1.63	<0.5	6	7	49	2.44
K917954		6.38	0.005	<0.2	1.03	10	<10	80	<0.5	<2	1.44	<0.5	6	11	87	2.48
K917955		6.18	0.034	0.4	0.98	20	<10	40	0.5	3	1.79	<0.5	7	11	382	2.66
K917956		7.29	0.011	<0.2	1.33	15	<10	70	<0.5	<2	1.35	<0.5	10	11	89	2.53
K917957		7.22	0.050	<0.2	0.99	14	<10	90	<0.5	3	1.39	<0.5	7	10	74	2.20
K917958		6.11	0.018	<0.2	1.02	13	<10	100	<0.5	<2	1.14	<0.5	5	9	90	2.20
K917959		6.82	0.005	<0.2	0.86	8	<10	190	<0.5	<2	1.51	<0.5	7	8	63	2.25
K917960		0.06	0.313	2.4	1.60	25	10	60	<0.5	<2	0.80	2.1	9	26	2370	4.31
K917961		5.81	<0.005	<0.2	0.40	15	<10	50	0.6	<2	1.88	<0.5	6	6	46	2.26
K917962		6.62	<0.005	<0.2	0.63	18	<10	260	0.5	<2	2.09	<0.5	7	7	72	2.52
K917963		6.57	0.015	<0.2	0.71	21	<10	100	<0.5	2	1.31	<0.5	7	9	114	2.54
K917964		6.04	0.018	<0.2	0.39	134	<10	230	0.7	<2	2.39	<0.5	9	4	117	2.66
K917965		5.09	<0.005	<0.2	0.40	32	<10	50	0.6	<2	2.03	<0.5	7	5	55	2.31
K917966		4.47	0.120	0.2	0.37	33	<10	30	<0.5	6	2.07	<0.5	8	5	277	2.55
K917967		4.24	0.051	<0.2	0.40	16	<10	30	0.5	4	1.65	<0.5	7	5	111	2.06
K917968		5.38	0.028	<0.2	1.12	8	<10	120	<0.5	5	0.99	<0.5	7	11	175	2.80
K917969		6.79	0.022	<0.2	0.85	10	<10	110	<0.5	2	1.20	<0.5	6	10	103	2.36
K917970		0.40	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.06
K917971		6.81	0.007	<0.2	1.02	17	<10	160	<0.5	2	1.27	<0.5	7	8	111	2.57
K917972		6.07	0.007	<0.2	0.75	11	<10	120	<0.5	3	1.61	<0.5	6	9	84	2.31
K917973		5.84	<0.005	<0.2	0.82	29	<10	130	0.5	2	1.53	<0.5	7	8	71	2.48

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917934		<10	<1	0.17	20	0.59	255	8	0.05	5	710	7	0.44	<2	4	109
K917935		10	<1	0.29	20	0.86	210	3	0.08	6	720	5	0.19	<2	4	60
K917936		10	<1	0.38	20	0.75	202	2	0.09	5	710	5	0.36	<2	4	53
K917937		<10	<1	0.31	20	0.67	229	36	0.06	4	630	6	0.29	<2	4	67
K917938		10	<1	0.20	20	0.68	198	59	0.06	4	640	4	0.33	<2	4	66
K917939		10	1	0.33	20	0.76	208	1	0.07	7	720	9	0.45	<2	5	55
K917940		<10	1	0.27	<10	0.53	712	213	0.06	20	680	72	2.10	<2	2	52
K917941		10	1	0.22	20	0.70	184	1	0.09	5	650	6	0.58	<2	4	60
K917942		<10	<1	0.23	30	0.57	245	2	0.05	5	670	5	0.25	<2	4	62
K917943		<10	<1	0.19	20	0.65	277	21	0.05	4	690	5	0.38	<2	5	90
K917944		<10	<1	0.31	20	0.66	240	37	0.07	4	650	5	0.31	<2	4	54
K917945		<10	1	0.34	20	0.63	190	1	0.08	4	660	7	0.26	<2	3	40
K917946		<10	<1	0.23	20	0.53	243	40	0.05	4	640	6	0.26	<2	3	75
K917947		<10	<1	0.24	20	0.62	277	19	0.06	5	650	6	0.27	<2	4	72
K917948		10	<1	0.34	20	0.68	239	2	0.08	4	650	6	0.43	<2	4	52
K917949		<10	1	0.25	20	0.57	237	39	0.06	4	640	6	0.13	<2	4	70
K917950		<10	1	<0.01	<10	0.38	79	<1	0.01	<1	70	<2	0.01	<2	<1	90
K917951		<10	<1	0.17	20	0.61	230	2	0.04	4	640	6	0.75	<2	4	101
K917952		<10	<1	0.30	20	0.71	256	3	0.06	5	770	5	0.26	<2	5	83
K917953		<10	<1	0.17	20	0.60	319	5	0.04	4	660	7	0.24	<2	5	103
K917954		10	<1	0.30	20	0.70	242	12	0.06	4	680	3	0.31	<2	5	70
K917955		10	<1	0.17	20	0.66	218	28	0.04	4	700	6	0.70	<2	5	97
K917956		10	<1	0.31	20	0.72	202	16	0.10	5	630	6	0.47	<2	4	65
K917957		<10	<1	0.24	20	0.61	199	5	0.07	4	620	7	0.33	<2	4	55
K917958		<10	<1	0.27	20	0.59	192	3	0.05	4	620	8	0.30	<2	4	98
K917959		<10	<1	0.34	20	0.58	264	10	0.06	4	630	5	0.24	<2	4	102
K917960		<10	1	0.27	<10	0.52	699	217	0.06	19	670	70	2.06	<2	2	51
K917961		<10	<1	0.11	20	0.51	295	8	0.04	4	620	10	0.20	<2	4	128
K917962		<10	<1	0.24	20	0.77	383	<1	0.05	4	670	8	0.31	11	4	111
K917963		<10	<1	0.23	20	0.61	341	4	0.05	5	650	6	0.44	2	5	87
K917964		<10	<1	0.11	20	0.81	376	2	0.02	4	720	22	0.39	8	6	140
K917965		<10	<1	0.09	20	0.68	298	20	0.02	4	640	9	0.23	<2	5	128
K917966		<10	<1	0.16	20	0.79	177	41	0.02	4	600	7	0.85	3	4	126
K917967		<10	<1	0.18	20	0.75	184	4	0.02	5	600	6	0.45	3	4	113
K917968		10	<1	0.31	20	0.78	167	38	0.05	5	640	6	0.62	<2	5	57
K917969		<10	<1	0.28	20	0.66	196	11	0.05	4	610	5	0.46	<2	4	56
K917970		<10	2	<0.01	<10	0.58	82	<1	0.01	<1	70	<2	0.01	<2	<1	85
K917971		<10	<1	0.39	20	0.63	239	6	0.07	4	770	5	0.43	<2	4	63
K917972		<10	<1	0.33	20	0.66	224	14	0.05	3	590	5	0.31	<2	4	76
K917973		<10	<1	0.32	20	0.68	258	59	0.05	5	690	6	0.33	<2	5	84

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
K917934		20	0.02	<10	<10	40	<10	20
K917935		20	0.09	<10	<10	56	<10	18
K917936		20	0.10	<10	10	54	<10	19
K917937		20	0.07	<10	<10	48	<10	17
K917938		20	0.03	<10	10	46	<10	17
K917939		<20	0.11	<10	<10	52	<10	21
K917940		<20	0.04	<10	<10	29	<10	410
K917941		20	0.06	<10	<10	49	10	19
K917942		20	0.04	<10	<10	43	<10	19
K917943		20	0.04	<10	<10	41	<10	20
K917944		20	0.09	<10	<10	49	10	17
K917945		20	0.14	<10	<10	48	10	16
K917946		20	0.05	<10	<10	40	<10	18
K917947		20	0.06	<10	<10	47	<10	21
K917948		20	0.09	<10	10	51	<10	18
K917949		20	0.06	<10	<10	46	<10	19
K917950		<20	<0.01	<10	<10	<1	<10	<2
K917951		20	0.03	<10	10	42	<10	16
K917952		20	0.08	<10	<10	51	<10	20
K917953		20	0.02	<10	10	34	<10	21
K917954		20	0.07	<10	10	52	<10	17
K917955		20	0.02	<10	<10	45	30	23
K917956		20	0.07	<10	<10	49	20	19
K917957		20	0.07	<10	<10	45	10	18
K917958		20	0.06	<10	<10	44	10	17
K917959		20	0.09	<10	<10	44	10	16
K917960		<20	0.04	<10	<10	29	<10	401
K917961		20	<0.01	<10	10	26	<10	19
K917962		20	0.03	<10	<10	36	<10	25
K917963		20	0.04	<10	<10	39	<10	23
K917964		<20	<0.01	<10	<10	21	<10	37
K917965		20	<0.01	<10	10	25	<10	21
K917966		20	<0.01	<10	<10	14	10	18
K917967		20	<0.01	<10	10	18	<10	17
K917968		20	0.05	<10	10	52	20	19
K917969		20	0.05	<10	10	43	50	15
K917970		<20	<0.01	<10	<10	<1	<10	<2
K917971		20	0.09	<10	10	50	10	19
K917972		20	0.06	<10	10	37	50	16
K917973		20	0.06	<10	10	43	30	19

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
K917974		6.45	0.006	<0.2	0.73	10	<10	100	<0.5	<2	1.05	<0.5	6	10	74	2.41
K917975		6.53	<0.005	<0.2	0.75	17	<10	220	0.6	<2	1.60	<0.5	7	10	100	2.68
K917976		5.70	0.006	0.2	0.55	51	<10	70	0.8	2	1.53	<0.5	7	6	109	2.31
K917977		7.02	0.014	0.2	0.60	29	<10	80	<0.5	7	1.08	<0.5	7	10	195	2.34
K917978		6.61	0.011	0.2	0.58	52	<10	50	0.6	<2	1.47	<0.5	6	8	93	2.27
K917979		6.18	0.005	<0.2	0.61	37	<10	70	0.5	<2	1.51	<0.5	6	8	58	2.04
K917980		0.06	0.718	3.0	1.13	14	10	110	<0.5	<2	0.76	<0.5	10	47	7640	2.45
K917981		7.03	<0.005	<0.2	0.92	9	<10	100	<0.5	<2	1.04	<0.5	7	11	39	2.10
K917982		6.22	0.007	<0.2	0.96	45	<10	90	0.5	<2	1.49	<0.5	6	9	66	2.21
K917983		6.95	0.078	0.2	0.95	9	<10	110	<0.5	4	1.10	<0.5	8	11	114	2.25
K917984		6.00	0.006	<0.2	0.88	15	<10	60	<0.5	<2	1.24	<0.5	5	10	61	1.92
K917985		6.61	0.009	<0.2	0.84	17	<10	360	0.5	2	1.25	<0.5	5	9	71	1.80
K917986		6.47	0.010	<0.2	1.30	14	<10	90	<0.5	2	1.12	<0.5	6	11	66	2.32
K917987		5.95	0.032	<0.2	1.15	282	<10	80	0.6	2	1.59	<0.5	7	9	65	2.42
K917988		5.76	0.012	0.7	0.27	28	<10	50	<0.5	26	1.75	<0.5	3	5	92	1.10
K917989		6.79	0.022	0.2	0.46	29	<10	50	0.5	3	1.25	<0.5	8	6	137	2.25
K917990		0.39	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.08
K917991		5.72	0.017	0.6	0.34	314	<10	70	0.6	2	1.44	1.1	10	4	166	2.16
K917992		5.97	0.010	0.2	0.59	67	<10	60	0.6	2	2.28	<0.5	9	6	150	2.47
K917993		6.45	0.021	0.2	1.09	143	<10	70	<0.5	3	1.67	2.2	6	12	67	2.51
K917994		6.52	0.010	<0.2	1.04	9	<10	70	<0.5	2	1.41	<0.5	6	12	86	2.26
K917995		6.96	0.009	<0.2	1.20	11	<10	70	<0.5	<2	1.05	<0.5	8	11	110	2.46
K917996		6.56	0.014	<0.2	1.22	23	<10	70	<0.5	2	1.50	<0.5	9	11	90	2.42
K917997		6.22	0.006	<0.2	1.05	77	<10	110	0.5	2	1.63	<0.5	7	9	110	2.14
K917998		6.32	0.005	<0.2	1.05	8	<10	110	<0.5	2	1.11	<0.5	6	11	85	2.45
K917999		6.61	0.016	<0.2	1.11	7	<10	100	<0.5	<2	0.83	<0.5	7	11	86	2.36
K918000		0.06	0.318	2.6	1.62	28	10	60	<0.5	2	0.80	2.3	10	28	2380	4.35
I026742		4.83	0.092	0.3	0.31	363	<10	80	0.6	4	1.32	<0.5	4	4	104	1.99

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K917974		<10	<1	0.29	20	0.63	226	4	0.06	4	660	6	0.38	<2	5	68
K917975		<10	<1	0.31	20	0.79	231	5	0.05	5	710	5	0.54	4	6	92
K917976		<10	<1	0.20	20	0.50	183	8	0.04	5	660	8	0.48	6	5	101
K917977		<10	<1	0.22	20	0.51	140	18	0.05	4	590	8	0.72	2	4	52
K917978		<10	<1	0.15	20	0.61	172	76	0.04	4	640	9	0.47	3	4	95
K917979		<10	<1	0.18	20	0.60	200	4	0.05	4	580	6	0.29	4	4	82
K917980		<10	<1	0.10	<10	0.54	380	368	0.09	32	500	6	0.61	2	4	37
K917981		<10	<1	0.37	20	0.61	227	6	0.07	3	590	4	0.19	2	4	50
K917982		<10	<1	0.34	20	0.62	219	31	0.06	4	650	6	0.25	<2	4	85
K917983		<10	<1	0.36	20	0.65	202	1	0.06	4	640	5	0.40	<2	4	57
K917984		<10	<1	0.24	20	0.54	189	108	0.06	3	550	6	0.27	<2	4	73
K917985		<10	<1	0.20	20	0.48	192	123	0.05	3	460	9	0.33	<2	3	80
K917986		10	<1	0.38	20	0.72	211	15	0.11	4	670	7	0.37	<2	4	66
K917987		<10	<1	0.28	20	0.60	222	13	0.10	4	640	6	0.44	2	5	113
K917988		<10	<1	0.17	10	0.57	147	9	0.03	1	230	32	0.25	2	1	84
K917989		<10	<1	0.21	20	0.50	141	25	0.05	4	590	7	0.68	4	3	90
K917990		<10	<1	<0.01	<10	0.49	92	<1	0.02	<1	70	<2	0.01	2	<1	89
K917991		<10	<1	0.21	20	0.49	164	110	0.03	4	630	30	0.56	2	3	105
K917992		<10	<1	0.19	20	0.70	202	1	0.05	4	680	6	0.61	6	4	119
K917993		<10	<1	0.23	20	0.67	259	1	0.07	4	690	15	0.37	<2	5	85
K917994		10	<1	0.26	20	0.71	210	283	0.07	5	660	6	0.40	<2	5	65
K917995		10	<1	0.26	20	0.78	160	46	0.09	4	710	7	0.49	2	5	46
K917996		10	<1	0.27	20	0.80	155	359	0.07	5	700	4	0.45	<2	5	75
K917997		<10	<1	0.23	20	0.51	155	15	0.07	4	660	6	0.47	2	4	81
K917998		<10	<1	0.32	20	0.71	207	16	0.07	4	720	6	0.37	<2	5	48
K917999		10	<1	0.26	20	0.75	177	7	0.08	4	690	7	0.45	<2	4	42
K918000		<10	<1	0.28	<10	0.55	709	232	0.06	20	700	76	2.12	3	2	53
I026742		<10	<1	0.19	30	0.72	300	265	0.02	2	730	14	0.29	6	4	103

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K917974		20	0.05	<10	10	41	20	18
K917975		20	0.04	<10	10	43	60	18
K917976		20	0.01	<10	10	25	10	22
K917977		20	0.02	<10	10	32	20	20
K917978		20	0.01	<10	10	27	<10	22
K917979		20	0.02	<10	10	32	20	16
K917980		<20	0.11	<10	<10	49	30	58
K917981		20	0.09	<10	10	46	10	18
K917982		20	0.06	<10	10	40	20	19
K917983		20	0.08	<10	10	46	20	18
K917984		20	0.04	<10	10	37	40	18
K917985		20	0.02	<10	10	28	20	20
K917986		20	0.09	<10	10	52	70	22
K917987		20	0.03	<10	10	42	50	23
K917988		20	<0.01	<10	10	3	<10	13
K917989		20	<0.01	<10	10	16	20	18
K917990		<20	<0.01	<10	<10	<1	<10	2
K917991		20	<0.01	<10	10	10	10	72
K917992		20	<0.01	<10	10	19	<10	20
K917993		20	0.04	<10	10	51	<10	135
K917994		20	0.06	<10	10	53	10	18
K917995		20	0.09	<10	10	55	30	19
K917996		20	0.08	<10	10	53	10	20
K917997		20	0.02	<10	10	33	10	22
K917998		20	0.10	<10	10	54	<10	19
K917999		20	0.13	<10	10	55	10	19
K918000		<20	0.04	<10	<10	30	<10	442
I026742		20	<0.01	<10	10	14	50	42

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mountain

CERTIFICATE OF ANALYSIS WH17164142

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 35	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164260

Project: Freegold Mtn - Tinta Property

P.O. No.: 1005139- NOFREG- R1

This report is for 165 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL050 01+50N		0.71	0.0079	0.26	1.76	26.2	0.08	<10	180	0.29	0.52	0.43	0.05	14.50	7.4	20
FGL050 02+00N		0.79	0.0081	0.19	2.30	20.5	<0.02	<10	180	0.40	1.18	0.38	0.08	15.80	8.6	29
FGL050 02+50N		0.48	0.0043	0.14	1.96	10.1	<0.02	<10	150	0.34	0.50	0.36	0.09	12.00	7.7	24
FGL050 03+00N		0.40	0.0056	0.16	1.58	16.1	<0.02	<10	110	0.29	0.51	0.27	0.10	11.20	6.8	18
FGL050 03+50N		0.31	0.0076	0.38	1.09	6.1	<0.02	<10	90	0.44	0.28	0.22	0.09	11.00	3.4	11
FGL050 04+00N		0.59	0.0087	0.14	1.31	14.0	<0.02	<10	110	0.19	0.41	0.33	0.08	13.15	4.1	18
FGL050 04+50N		0.69	0.0091	0.15	1.42	56.7	<0.02	<10	110	0.25	0.65	0.40	0.09	17.35	5.9	19
FGL050 06+00N		0.50	0.0031	0.15	1.40	10.0	<0.02	<10	220	0.36	0.34	0.98	0.24	23.0	8.3	18
FGL050 06+50N		0.45	0.0037	0.20	1.79	10.0	<0.02	<10	260	0.50	0.57	0.76	0.18	28.8	9.3	23
FGL050 07+00N		0.41	0.0063	0.21	1.51	9.6	<0.02	<10	270	0.47	0.52	1.08	0.25	24.7	7.8	19
FGL050 07+50N		0.61	0.0044	0.27	1.36	11.2	<0.02	<10	190	0.46	0.64	0.47	0.16	25.7	7.5	22
FGL050 08+00N		0.65	0.0069	0.13	3.75	14.1	<0.02	<10	1120	0.50	0.67	0.57	0.11	30.6	7.5	20
FGL051 00+00N		0.36	0.0010	0.32	0.92	4.7	<0.02	<10	150	0.25	0.28	0.16	0.06	9.96	3.7	11
FGL051 00+50N		0.59	0.0023	0.20	1.72	17.6	<0.02	<10	220	0.31	1.43	0.30	0.11	15.20	7.4	25
FGL051 01+00N		0.44	0.0012	0.37	1.61	18.5	<0.02	<10	430	0.34	1.71	0.37	0.12	16.65	8.0	26
FGL051 02+50N		0.41	0.0021	0.26	1.13	15.2	<0.02	<10	220	0.16	2.33	0.37	0.12	12.20	4.4	20
FGL051 04+00N		0.25	0.0040	0.25	1.04	7.8	<0.02	<10	220	0.15	0.44	0.44	0.21	14.45	3.6	17
FGL051 04+50N		0.37	0.0009	0.16	0.54	4.0	<0.02	<10	110	0.09	0.33	0.23	0.14	8.68	3.2	9
FGL051 05+00N		0.41	0.0105	0.13	0.99	7.4	<0.02	<10	140	0.21	0.50	0.50	0.17	20.7	7.8	15
FGL051 05+50N		0.41	0.0022	0.29	1.56	9.4	<0.02	<10	370	0.42	0.90	1.03	0.39	26.1	10.5	24
FGL051 06+00N		0.57	0.0039	0.35	1.67	25.6	<0.02	<10	290	0.57	0.85	0.80	0.51	31.2	8.9	25
FGL051 06+50N		0.58	0.0022	0.23	1.60	23.0	<0.02	<10	260	0.51	0.67	0.75	0.23	26.9	8.7	23
FGL051 07+00N		0.48	0.0019	0.12	1.12	11.2	<0.02	<10	190	0.36	0.42	0.43	0.08	19.15	6.0	15
FGL051 07+50N		0.47	0.0048	0.07	1.42	12.1	<0.02	<10	110	0.26	0.32	0.17	0.11	17.85	5.7	24
FGL051 08+00N		0.41	0.0013	0.07	2.33	10.7	<0.02	<10	140	0.65	0.49	0.31	0.08	30.2	8.8	36
FGL052 00+00		0.36	0.0036	0.09	1.12	25.3	<0.02	<10	90	0.33	0.36	0.18	0.08	13.45	4.4	10
FGL052 00+50S		0.34	0.0016	0.07	1.71	11.4	<0.02	<10	180	0.38	0.24	0.17	0.16	17.65	6.6	22
FGL052 01+00S		0.42	0.0012	0.05	1.65	16.7	<0.02	<10	130	0.36	0.42	0.26	0.21	14.55	7.5	21
FGL052 01+50S		0.45	0.0024	0.17	1.95	26.4	<0.02	<10	200	0.71	0.61	0.42	0.34	31.9	9.2	24
FGL052 02+00S		0.45	0.0020	0.10	1.48	10.4	<0.02	<10	90	0.40	0.29	0.22	0.27	16.00	8.7	16
FGL052 02+50S		0.43	0.0093	0.10	1.28	14.5	<0.02	<10	80	0.27	0.43	0.27	0.21	14.60	6.5	19
FGL052 03+00S		0.33	0.0017	0.44	1.35	11.3	<0.02	<10	290	0.35	1.49	0.57	0.39	18.10	8.0	18
FGL052 03+50S		0.45	0.0029	0.38	1.23	10.2	<0.02	<10	220	0.22	1.86	0.45	0.21	19.30	7.0	18
FGL052 04+00S		0.46	0.0066	0.26	1.23	10.1	<0.02	<10	170	0.18	1.22	0.37	0.20	16.80	5.8	19
FGL052 04+50S		0.57	0.0058	0.16	1.09	15.7	<0.02	<10	160	0.17	0.65	0.41	0.22	15.95	6.4	17
FGL052 05+00S		0.41	0.0016	0.21	1.20	12.5	0.02	<10	130	0.18	0.42	0.19	0.13	16.05	3.9	18
FGL052 05+50S		0.41	0.0082	0.08	0.94	9.2	<0.02	<10	190	0.12	0.28	0.36	0.10	12.20	6.1	13
FGL052 06+00S		0.39	0.0069	0.19	0.63	22.3	<0.02	<10	300	0.19	0.53	0.31	0.07	10.65	4.2	9
FGL052 07+00S		0.47	0.0012	0.07	2.57	51.9	<0.02	<10	180	0.54	2.47	0.26	0.26	20.5	13.8	40
FGL052 07+50S		0.37	0.0008	0.06	0.71	3.1	<0.02	<10	100	0.14	0.32	0.13	0.04	9.47	2.0	8

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL050 01+50N		2.21	10.1	2.26	6.44	<0.05	<0.02	0.02	0.019	0.08	7.3	8.0	0.71	253	0.38	0.02
FGL050 02+00N		1.92	11.8	2.76	7.70	<0.05	0.02	0.02	0.020	0.09	7.7	10.1	0.76	328	0.55	0.02
FGL050 02+50N		2.38	14.4	2.21	7.05	<0.05	<0.02	0.03	0.020	0.10	6.0	7.3	0.71	328	0.35	0.02
FGL050 03+00N		1.83	12.3	1.80	6.14	<0.05	<0.02	0.03	0.018	0.07	5.9	6.4	0.47	232	0.86	0.02
FGL050 03+50N		1.68	18.1	1.06	3.53	<0.05	<0.02	0.04	0.014	0.05	6.2	2.8	0.22	102	0.35	0.02
FGL050 04+00N		2.18	7.3	1.61	6.18	<0.05	<0.02	0.03	0.015	0.08	7.2	4.2	0.48	156	0.31	0.02
FGL050 04+50N		3.06	7.7	2.07	6.71	<0.05	<0.02	0.01	0.017	0.13	9.2	5.4	0.56	247	0.50	0.02
FGL050 05+00N		0.89	14.1	2.00	5.06	<0.05	0.04	0.04	0.021	0.05	12.1	6.0	0.51	663	0.38	0.03
FGL050 05+50N		1.21	18.3	2.22	5.94	<0.05	0.04	0.04	0.026	0.05	15.2	7.7	0.60	701	0.43	0.02
FGL050 07+00N		0.85	34.9	2.10	5.32	<0.05	0.05	0.05	0.022	0.07	13.0	6.4	0.56	493	1.46	0.02
FGL050 07+50N		1.32	36.5	2.38	5.33	0.05	0.02	0.03	0.022	0.14	14.0	5.8	0.54	303	2.34	0.02
FGL050 08+00N		9.90	95.4	5.56	16.75	0.17	0.04	0.01	0.029	1.44	14.4	16.4	2.29	314	3.72	0.03
FGL051 00+00N		0.77	13.1	1.39	3.40	<0.05	<0.02	0.02	0.013	0.04	5.4	2.8	0.12	140	0.31	0.03
FGL051 00+50N		1.70	11.7	2.34	6.05	<0.05	<0.02	0.01	0.028	0.07	7.9	12.3	0.48	320	0.58	0.02
FGL051 01+00N		1.79	15.6	2.18	5.68	<0.05	<0.02	0.02	0.030	0.05	8.7	10.4	0.50	468	0.65	0.02
FGL051 02+50N		1.18	8.1	1.57	4.38	<0.05	<0.02	0.05	0.017	0.04	6.8	6.0	0.37	253	0.29	0.02
FGL051 04+00N		1.57	9.8	1.38	4.94	<0.05	<0.02	0.07	0.017	0.04	8.0	5.4	0.36	164	0.19	0.02
FGL051 04+50N		0.99	7.0	1.06	2.81	<0.05	<0.02	0.05	0.011	0.03	5.0	2.9	0.18	142	0.15	0.03
FGL051 05+00N		1.40	8.7	1.98	4.51	<0.05	<0.02	0.05	0.017	0.04	11.3	6.4	0.42	500	0.23	0.02
FGL051 05+50N		1.38	19.8	2.37	5.83	<0.05	0.04	0.06	0.024	0.04	14.2	9.0	0.68	589	0.32	0.02
FGL051 06+00N		2.12	29.1	2.68	5.76	<0.05	0.04	0.04	0.030	0.06	17.6	9.4	0.57	443	0.42	0.02
FGL051 06+50N		1.62	21.3	2.43	5.64	<0.05	<0.02	0.02	0.024	0.05	15.1	8.7	0.51	379	0.46	0.02
FGL051 07+00N		0.92	14.7	1.73	4.06	<0.05	<0.02	0.02	0.016	0.04	11.8	5.5	0.31	248	0.34	0.03
FGL051 07+50N		1.88	23.8	2.57	6.77	<0.05	0.02	0.01	0.018	0.09	9.4	8.3	0.39	165	1.28	0.02
FGL051 08+00N		1.77	20.3	2.70	8.05	<0.05	0.05	0.01	0.026	0.09	16.0	11.9	0.54	197	1.06	0.02
FGL052 00+00		2.08	10.1	1.71	5.36	<0.05	<0.02	0.01	0.024	0.05	6.4	7.7	0.34	227	1.78	0.02
FGL052 00+50S		2.55	11.0	2.39	6.06	<0.05	<0.02	0.02	0.019	0.07	9.5	15.4	0.39	193	1.52	0.02
FGL052 01+00S		1.46	19.8	2.40	5.50	<0.05	<0.02	0.06	0.022	0.06	7.3	9.9	0.35	377	0.66	0.02
FGL052 01+50S		2.03	22.7	2.54	5.50	<0.05	<0.02	0.02	0.027	0.06	16.4	7.4	0.44	446	0.46	0.02
FGL052 02+00S		1.92	16.0	1.93	4.59	<0.05	<0.02	0.02	0.018	0.04	7.9	6.6	0.27	562	0.46	0.01
FGL052 02+50S		1.94	12.0	2.16	4.42	<0.05	0.02	0.02	0.020	0.04	7.7	6.8	0.34	285	0.47	0.01
FGL052 03+00S		2.19	20.5	1.84	4.96	<0.05	<0.02	0.09	0.025	0.05	9.6	7.7	0.41	760	0.39	0.02
FGL052 03+50S		2.05	11.6	1.79	5.05	<0.05	<0.02	0.08	0.025	0.05	10.9	7.6	0.43	476	0.39	0.02
FGL052 04+00S		1.99	11.2	1.76	5.32	<0.05	<0.02	0.07	0.020	0.05	9.4	8.6	0.47	242	0.32	0.02
FGL052 04+50S		2.52	14.7	2.06	4.78	<0.05	<0.02	0.06	0.029	0.04	9.0	8.0	0.44	288	0.34	0.01
FGL052 05+00S		1.12	13.6	1.94	6.50	<0.05	<0.02	0.01	0.020	0.04	8.7	7.8	0.27	149	0.54	0.01
FGL052 05+50S		1.67	8.4	1.43	4.39	<0.05	<0.02	0.05	0.014	0.05	6.9	5.3	0.36	587	0.30	0.02
FGL052 06+00S		1.17	13.5	1.12	2.61	<0.05	<0.02	0.04	0.011	0.03	5.9	3.1	0.17	277	0.26	0.04
FGL052 07+00S		11.15	13.9	4.44	9.23	<0.05	0.02	0.01	0.089	0.12	8.6	16.1	0.76	1280	1.02	0.01
FGL052 07+50S		0.92	11.0	0.79	2.40	<0.05	<0.02	0.02	0.011	0.04	4.5	3.3	0.12	61	0.63	0.02

***** See Appendix Page for comments regarding this certificate *****

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL050 01+50N		1.25	9.5	790	8.6	11.5	<0.001	0.03	1.75	3.0	0.3	0.4	48.7	<0.01	0.15	0.9
FGL050 02+00N		1.46	12.8	450	9.1	12.5	<0.001	0.02	2.77	3.5	0.3	0.5	49.3	<0.01	0.11	1.3
FGL050 02+50N		0.87	9.7	750	6.0	13.7	<0.001	0.05	0.93	2.2	0.4	0.4	57.4	<0.01	0.14	0.2
FGL050 03+00N		0.69	9.7	510	8.8	12.0	<0.001	0.04	1.22	1.4	0.3	0.4	49.3	<0.01	0.13	<0.2
FGL050 03+50N		0.37	5.9	610	4.8	8.1	<0.001	0.07	0.58	0.6	0.4	0.2	48.6	<0.01	0.08	<0.2
FGL050 04+00N		0.85	7.0	640	5.3	10.2	<0.001	0.05	1.00	2.0	0.4	0.4	61.8	<0.01	0.08	0.4
FGL050 04+50N		0.99	7.3	910	9.9	15.2	<0.001	0.03	2.57	2.7	0.4	0.5	86.5	<0.01	0.14	0.9
FGL050 05+00N		1.72	9.1	930	20.4	5.4	<0.001	0.05	0.74	3.4	0.5	0.3	67.2	<0.01	0.04	1.3
FGL050 05+50N		0.78	11.5	990	16.4	7.6	<0.001	0.05	0.71	4.2	0.5	0.4	56.8	<0.01	0.05	1.4
FGL050 07+00N		1.10	10.3	1010	12.1	10.6	<0.001	0.07	0.71	3.9	0.6	0.5	88.1	<0.01	0.07	2.0
FGL050 07+50N		0.94	11.2	900	11.6	13.8	<0.001	0.04	0.85	4.4	0.5	0.5	63.6	<0.01	0.08	1.7
FGL050 08+00N		2.06	7.5	1790	6.9	109.0	<0.001	0.11	0.51	17.3	0.9	2.5	153.5	<0.01	0.10	3.8
FGL051 00+00N		0.32	5.3	510	4.7	4.3	<0.001	0.03	0.27	1.2	0.2	0.2	15.0	<0.01	0.02	<0.2
FGL051 00+50N		1.36	12.5	360	31.9	10.5	<0.001	0.02	0.86	3.0	0.2	0.5	32.9	<0.01	0.06	1.5
FGL051 01+00N		0.99	13.5	440	14.5	8.4	<0.001	0.03	1.21	3.0	0.3	0.5	45.2	<0.01	0.05	0.9
FGL051 02+50N		0.75	7.5	680	12.9	6.1	<0.001	0.06	0.71	2.1	0.5	0.3	40.1	<0.01	0.03	0.5
FGL051 04+00N		0.62	6.4	810	17.2	8.8	<0.001	0.06	0.68	2.0	0.3	0.3	35.1	<0.01	0.01	0.3
FGL051 04+50N		0.35	3.7	560	15.0	4.5	<0.001	0.04	0.40	1.3	0.2	0.2	18.9	<0.01	0.01	0.2
FGL051 05+00N		0.59	7.1	1220	15.6	6.5	<0.001	0.03	0.69	2.6	0.3	0.3	30.3	<0.01	0.01	1.3
FGL051 05+50N		0.82	11.9	1170	25.1	6.0	<0.001	0.06	0.99	4.4	0.6	0.3	61.7	<0.01	0.05	1.6
FGL051 06+00N		0.79	13.1	1000	52.4	6.6	<0.001	0.03	1.45	5.8	0.5	0.4	53.0	<0.01	0.07	3.3
FGL051 06+50N		0.81	11.0	1120	24.7	6.5	<0.001	0.03	0.86	4.1	0.5	0.4	53.3	<0.01	0.08	1.5
FGL051 07+00N		0.63	8.0	720	10.9	4.4	<0.001	0.03	0.61	2.4	0.4	0.3	32.4	<0.01	0.05	0.8
FGL051 07+50N		1.74	9.8	880	7.1	16.9	<0.001	0.02	0.43	3.1	0.3	0.6	21.4	<0.01	0.03	2.2
FGL051 08+00N		1.77	14.1	370	8.6	11.1	<0.001	0.02	0.57	5.6	0.5	0.8	30.1	0.01	0.03	5.3
FGL052 00+00		0.65	5.4	500	13.7	11.8	<0.001	0.04	0.60	1.9	0.3	0.5	14.9	<0.01	0.05	0.4
FGL052 00+50S		1.40	11.9	550	7.1	16.0	<0.001	0.03	0.42	2.6	0.3	0.5	16.2	<0.01	0.04	1.1
FGL052 01+00S		0.67	10.1	680	17.9	6.8	<0.001	0.02	0.58	2.2	0.3	0.4	27.5	<0.01	0.04	0.4
FGL052 01+50S		0.74	11.9	1120	34.5	6.4	<0.001	0.02	0.86	4.6	0.4	0.4	37.9	<0.01	0.04	1.8
FGL052 02+00S		0.42	8.0	1000	22.6	5.1	<0.001	0.03	0.84	1.5	0.3	0.3	18.4	<0.01	0.03	0.2
FGL052 02+50S		0.67	8.0	1020	26.9	4.9	<0.001	0.03	1.10	2.2	0.2	0.3	19.5	<0.01	0.04	0.8
FGL052 03+00S		0.63	9.6	790	35.1	9.8	<0.001	0.05	1.29	2.5	0.4	0.3	50.9	<0.01	0.03	0.4
FGL052 03+50S		0.66	8.2	910	28.2	9.7	<0.001	0.04	0.75	2.5	0.3	0.4	35.7	<0.01	0.03	0.5
FGL052 04+00S		0.70	8.9	790	16.9	7.8	<0.001	0.04	0.67	2.3	0.3	0.4	28.1	<0.01	0.02	0.4
FGL052 04+50S		0.59	8.0	920	22.5	6.0	<0.001	0.02	1.57	2.5	0.2	0.3	24.1	<0.01	0.03	1.0
FGL052 05+00S		1.31	7.1	270	17.9	6.4	<0.001	0.02	0.77	2.4	0.2	0.6	18.4	<0.01	0.03	1.3
FGL052 05+50S		0.56	5.6	770	12.2	7.3	<0.001	0.03	0.64	2.0	0.2	0.3	26.2	<0.01	0.01	0.5
FGL052 06+00S		0.38	4.8	610	5.2	3.1	<0.001	0.04	1.36	1.5	0.4	0.2	28.3	<0.01	0.01	0.3
FGL052 07+00S		1.01	15.3	370	14.1	17.0	<0.001	0.02	2.61	6.9	0.3	0.6	24.4	<0.01	0.07	2.4
FGL052 07+50S		0.31	6.9	360	6.5	3.5	0.001	0.03	0.29	0.8	<0.2	0.2	11.9	<0.01	0.02	<0.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL050 01+50N		0.091	0.22	0.36	52	0.15	3.65	49	0.5
FGL050 02+00N		0.110	0.18	0.38	67	0.14	3.47	57	0.7
FGL050 02+50N		0.084	0.15	0.44	50	0.11	2.71	54	<0.5
FGL050 03+00N		0.069	0.12	0.35	44	0.13	2.33	45	<0.5
FGL050 03+50N		0.022	0.07	0.62	19	0.06	3.07	24	<0.5
FGL050 04+00N		0.072	0.15	0.35	38	0.11	3.19	37	<0.5
FGL050 04+50N		0.087	0.20	0.40	52	0.14	4.34	44	<0.5
FGL050 06+00N		0.040	0.05	0.67	43	0.09	7.49	77	1.5
FGL050 06+50N		0.041	0.09	0.88	47	0.13	9.68	74	1.2
FGL050 07+00N		0.046	0.09	1.90	45	0.14	9.35	61	1.7
FGL050 07+50N		0.062	0.14	1.92	53	0.26	7.77	64	0.8
FGL050 08+00N		0.446	1.32	5.92	171	0.13	13.25	50	1.6
FGL051 00+00N		0.050	0.05	0.25	42	0.08	3.11	28	<0.5
FGL051 00+50N		0.067	0.12	0.33	57	0.19	2.98	68	0.7
FGL051 01+00N		0.055	0.11	0.39	53	0.14	4.22	65	<0.5
FGL051 02+50N		0.047	0.11	0.38	40	0.10	3.58	52	<0.5
FGL051 04+00N		0.039	0.09	0.33	29	0.33	3.39	89	<0.5
FGL051 04+50N		0.037	0.05	0.22	27	0.05	2.10	45	<0.5
FGL051 05+00N		0.059	0.06	0.41	53	0.17	4.71	79	<0.5
FGL051 05+50N		0.059	0.07	0.88	55	0.11	9.33	106	1.5
FGL051 06+00N		0.045	0.09	0.69	56	0.38	10.85	163	1.4
FGL051 06+50N		0.049	0.07	0.84	54	0.13	8.37	79	<0.5
FGL051 07+00N		0.049	0.06	0.50	43	0.10	8.66	46	<0.5
FGL051 07+50N		0.103	0.13	0.64	66	0.19	3.29	35	1.0
FGL051 08+00N		0.120	0.13	1.16	70	0.18	6.12	45	2.2
FGL052 00+00		0.045	0.11	0.34	47	0.23	3.22	34	<0.5
FGL052 00+50S		0.073	0.11	0.40	60	0.27	3.06	46	0.6
FGL052 01+00S		0.053	0.07	0.39	53	0.12	2.86	67	<0.5
FGL052 01+50S		0.054	0.08	0.62	55	0.12	6.00	97	<0.5
FGL052 02+00S		0.036	0.05	0.37	44	0.10	3.02	67	<0.5
FGL052 02+50S		0.036	0.06	0.40	46	0.11	3.02	73	0.5
FGL052 03+00S		0.035	0.09	0.46	40	0.14	4.69	100	<0.5
FGL052 03+50S		0.046	0.10	0.46	43	0.64	4.29	91	<0.5
FGL052 04+00S		0.051	0.09	0.37	41	0.14	3.73	90	<0.5
FGL052 04+50S		0.049	0.08	0.27	49	0.14	2.93	156	<0.5
FGL052 05+00S		0.071	0.10	0.32	59	0.12	2.36	57	0.5
FGL052 05+50S		0.044	0.07	0.22	35	0.07	2.37	64	<0.5
FGL052 06+00S		0.036	0.07	0.24	30	0.08	5.27	28	<0.5
FGL052 07+00S		0.044	0.33	0.32	90	0.26	4.13	161	0.8
FGL052 07+50S		0.025	0.05	0.21	20	0.07	2.11	20	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL052 08+00S		0.46	0.0047	0.08	1.12	105.0	<0.02	<10	190	0.38	1.19	0.24	0.11	23.0	6.0	16
FGL053 00+50S		0.39	0.0019	0.29	1.19	10.5	<0.02	<10	110	0.29	5.93	0.26	0.29	18.75	7.2	16
FGL053 01+00S		0.26	0.0022	0.17	0.45	11.9	<0.02	<10	70	0.13	0.98	0.14	0.17	9.92	1.8	5
FGL053 01+50S		0.13	0.0033	0.32	0.45	4.0	<0.02	<10	100	0.12	1.23	0.23	0.20	10.10	2.1	8
FGL053 02+50S		0.22	0.0019	0.19	0.99	6.0	<0.02	<10	200	0.17	0.79	0.28	0.18	16.85	7.9	16
FGL053 03+00S		0.41	0.0093	0.31	1.36	8.4	<0.02	<10	220	0.30	1.39	0.35	0.19	24.0	6.4	22
FGL053 03+50S		0.54	0.0039	0.42	1.46	6.7	<0.02	<10	250	0.34	2.49	0.32	0.18	22.6	6.6	23
FGL053 04+00S		0.87	0.0096	0.20	1.09	12.9	<0.02	<10	180	0.27	1.37	0.40	0.36	21.0	7.5	19
FGL053 04+50S		0.70	0.0034	0.33	1.41	15.1	<0.02	<10	230	0.26	3.93	0.25	0.20	18.60	11.6	21
FGL053 05+50S		0.61	0.0142	0.66	1.66	57.0	<0.02	<10	320	0.32	5.37	0.31	0.15	19.00	10.4	22
FGL053 06+00S		0.27	0.0023	0.35	1.18	15.4	<0.02	<10	220	0.18	1.30	0.29	0.06	15.45	4.9	17
FGL053 06+50S		0.65	0.0013	0.16	1.78	12.6	<0.02	<10	120	0.23	1.38	0.17	0.11	15.75	8.3	29
FGL053 07+00S		0.69	0.0034	0.32	1.94	11.5	<0.02	<10	200	0.41	1.57	0.20	0.06	17.80	6.9	29
FGL053 07+50S		0.69	0.0026	0.40	1.57	8.8	<0.02	<10	230	0.40	1.88	0.25	0.08	17.25	6.1	21
FGL053 08+00S		0.72	0.0022	0.13	1.69	14.4	<0.02	<10	290	0.42	1.30	0.29	0.05	19.80	7.1	24
FGL054 00+00		0.73	0.0023	0.07	1.72	10.8	<0.02	<10	290	0.36	0.36	0.29	0.07	20.2	7.5	28
FGL054 00+50N		0.70	0.0016	0.05	1.73	12.8	<0.02	<10	220	0.30	0.27	0.25	0.08	17.85	7.6	29
FGL054 01+00N		0.74	0.0117	0.18	1.65	9.7	<0.02	<10	210	0.33	0.28	0.22	0.06	18.95	6.5	26
FGL054 01+50N		0.55	0.0009	0.18	2.08	15.8	<0.02	<10	190	0.36	0.53	0.15	0.15	21.0	8.4	31
FGL054 02+00N		0.28	0.0055	0.80	2.04	12.1	<0.02	<10	640	0.78	2.58	0.45	0.19	28.6	6.1	23
FGL054 03+00N		0.54	0.0025	0.16	1.42	8.9	<0.02	<10	290	0.36	0.59	0.36	0.09	26.6	6.3	23
FGL054 04+00N		0.46	0.0029	0.36	1.23	11.2	<0.02	<10	360	0.31	0.99	0.33	0.19	29.4	7.2	21
FGL054 05+00N		0.16	0.0031	0.52	1.11	16.7	<0.02	<10	310	0.28	2.62	0.44	0.68	23.7	3.2	18
FGL054 06+50N		0.31	0.0020	0.26	1.34	10.4	<0.02	<10	270	0.28	1.41	0.50	0.44	22.6	5.7	24
FGL054 07+00N		0.50	0.0027	0.25	1.35	29.8	<0.02	<10	190	0.27	0.64	0.32	0.27	22.3	6.6	21
FGL054 07+50N		0.45	0.0028	0.21	1.12	8.6	<0.02	<10	100	0.18	0.50	0.21	0.13	12.80	5.1	17
FGL054 08+00N		0.86	0.0024	0.14	1.58	15.6	<0.02	<10	190	0.41	0.69	0.35	0.21	30.6	10.0	27
FGL055 00+00N		0.43	0.0006	0.11	1.10	6.9	<0.02	<10	250	0.20	1.66	0.23	0.10	14.90	4.6	19
FGL055 00+25N		0.38	0.0005	0.31	0.95	7.6	0.03	<10	260	0.20	0.99	0.20	0.11	12.95	4.2	16
FGL055 00+50N		0.50	0.0007	0.20	1.25	13.7	<0.02	<10	190	0.28	1.01	0.19	0.14	19.10	7.1	22
FGL055 00+75N		0.30	0.0007	0.55	1.00	3.4	<0.02	<10	210	0.32	0.62	0.18	0.19	17.95	2.9	10
FGL055 01+00N		0.43	0.0029	0.20	2.03	13.6	<0.02	<10	350	0.53	2.10	0.24	0.11	21.3	9.3	28
FGL055 01+25N		0.36	0.0006	0.11	0.91	5.5	<0.02	<10	240	0.22	0.87	0.20	0.09	12.30	4.3	12
FGL055 01+50N		0.35	0.0013	0.11	1.25	12.6	<0.02	<10	150	0.23	0.68	0.13	0.19	15.15	4.6	19
FGL055 01+75N		0.44	0.0019	0.25	0.99	11.1	<0.02	<10	250	0.27	1.48	0.24	0.18	16.10	5.4	15
FGL055 02+00N		0.29	0.0014	0.38	1.22	6.2	<0.02	<10	340	0.42	0.85	0.19	0.15	18.10	4.6	15
FGL055 02+25N		0.39	0.0049	0.75	1.40	29.3	<0.02	<10	770	0.45	1.81	0.43	0.49	32.8	8.4	22
FGL055 02+75N		0.57	0.0024	0.26	1.10	6.8	<0.02	<10	400	0.32	0.94	0.26	0.16	16.80	6.7	18
FGL055 03+25N		0.51	0.0024	0.38	1.27	17.5	<0.02	<10	360	0.35	1.78	0.38	0.23	27.9	8.5	22
FGL055 03+50N		0.54	0.0043	0.31	1.18	12.2	<0.02	<10	290	0.36	1.32	0.37	0.21	27.9	8.6	22

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1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL052 08+00S		2.31	11.7	2.04	4.28	<0.05	<0.02	0.02	0.028	0.05	12.0	7.4	0.33	340	0.64	0.01
FGL053 00+50S		1.74	13.0	1.82	5.11	<0.05	<0.02	0.04	0.022	0.03	9.6	6.2	0.40	244	0.44	0.01
FGL053 01+00S		1.96	8.2	0.75	2.26	<0.05	<0.02	0.03	0.015	0.03	5.1	1.5	0.10	106	0.23	0.02
FGL053 01+50S		1.61	10.4	0.72	2.09	<0.05	<0.02	0.05	0.012	0.03	5.3	1.5	0.08	98	0.27	0.02
FGL053 02+50S		1.72	10.9	1.36	3.88	<0.05	<0.02	0.04	0.017	0.04	8.7	6.4	0.30	545	0.41	0.01
FGL053 03+00S		2.27	15.8	1.72	5.07	<0.05	<0.02	0.06	0.027	0.05	12.0	8.8	0.41	291	0.38	0.01
FGL053 03+50S		2.32	24.0	1.83	4.90	<0.05	<0.02	0.05	0.029	0.05	11.4	9.3	0.41	220	0.34	0.01
FGL053 04+00S		2.26	16.2	1.96	4.18	<0.05	0.02	0.02	0.024	0.06	10.0	7.6	0.43	423	0.36	0.01
FGL053 04+50S		3.02	26.4	2.19	5.03	<0.05	<0.02	0.02	0.032	0.06	9.0	8.4	0.41	1240	0.64	0.01
FGL053 05+50S		5.20	58.1	2.48	5.65	<0.05	<0.02	0.04	0.050	0.07	9.7	9.6	0.42	415	0.93	0.01
FGL053 06+00S		3.37	36.5	1.90	4.73	<0.05	<0.02	0.02	0.029	0.04	8.7	7.0	0.40	231	0.57	0.01
FGL053 06+50S		1.61	29.4	2.76	7.75	<0.05	0.03	0.01	0.026	0.05	7.8	11.7	0.51	315	0.80	0.01
FGL053 07+00S		1.23	45.8	2.69	6.78	<0.05	0.03	0.02	0.028	0.06	9.1	10.7	0.47	213	0.86	0.01
FGL053 07+50S		1.31	36.5	2.02	5.14	<0.05	<0.02	0.02	0.020	0.04	8.7	8.6	0.38	209	0.50	0.02
FGL053 08+00S		2.60	27.9	2.54	5.98	<0.05	<0.02	0.01	0.026	0.04	10.3	10.5	0.51	258	0.65	0.01
FGL054 00+00		1.35	16.1	2.52	5.91	<0.05	0.03	0.01	0.025	0.07	10.1	12.1	0.55	243	0.63	0.01
FGL054 00+50N		1.34	14.5	2.79	6.43	<0.05	0.05	<0.01	0.024	0.07	8.6	13.9	0.57	246	0.72	0.01
FGL054 01+00N		1.25	13.7	2.28	6.45	<0.05	0.04	0.01	0.022	0.05	10.1	11.4	0.48	194	0.59	0.01
FGL054 01+50N		1.38	29.2	3.33	7.76	<0.05	0.03	0.01	0.029	0.06	10.4	19.0	0.47	214	0.98	0.01
FGL054 02+00N		4.29	191.0	2.21	6.36	<0.05	<0.02	0.05	0.037	0.08	15.2	7.1	0.27	328	0.72	0.02
FGL054 03+00N		2.07	27.2	1.94	4.78	<0.05	0.02	0.03	0.025	0.04	13.6	9.5	0.43	170	0.42	0.01
FGL054 04+00N		2.36	24.6	2.16	4.21	<0.05	<0.02	0.05	0.030	0.04	14.5	8.0	0.31	221	0.54	0.01
FGL054 06+00N		3.34	18.8	1.27	4.06	<0.05	0.02	0.07	0.024	0.04	13.4	6.7	0.32	205	0.22	0.02
FGL054 06+50N		2.11	17.6	1.57	4.93	<0.05	0.02	0.04	0.027	0.04	11.3	8.5	0.41	265	0.22	0.01
FGL054 07+00N		2.04	14.7	1.96	4.74	<0.05	<0.02	0.06	0.023	0.05	11.5	8.3	0.45	223	0.42	0.01
FGL054 07+50N		1.24	10.8	1.48	4.16	<0.05	<0.02	0.03	0.015	0.04	6.7	6.3	0.36	173	0.37	0.02
FGL054 08+00N		1.60	16.2	2.18	5.18	<0.05	0.02	0.03	0.022	0.05	15.3	9.9	0.59	267	0.45	0.01
FGL055 00+00N		1.21	10.4	1.67	4.44	<0.05	0.02	0.01	0.018	0.05	8.0	7.0	0.34	181	0.54	0.01
FGL055 00+25N		2.07	9.2	1.62	5.15	<0.05	<0.02	0.01	0.020	0.06	6.8	5.9	0.26	185	0.67	0.02
FGL055 00+50N		3.26	13.3	2.51	6.58	<0.05	0.02	0.01	0.023	0.07	8.9	8.6	0.37	328	0.72	0.01
FGL055 00+75N		3.03	27.9	1.11	4.29	<0.05	<0.02	0.01	0.014	0.04	11.5	3.6	0.11	104	0.40	0.02
FGL055 01+00N		3.86	15.4	2.65	6.23	<0.05	0.04	0.01	0.035	0.08	10.2	12.8	0.56	312	0.62	0.01
FGL055 01+25N		1.56	13.3	1.35	3.76	<0.05	<0.02	0.01	0.012	0.05	6.4	5.5	0.21	196	0.38	0.02
FGL055 01+50N		1.92	9.6	2.40	8.11	<0.05	<0.02	0.02	0.019	0.05	7.4	9.7	0.28	160	0.70	0.01
FGL055 01+75N		4.29	12.8	1.78	4.91	<0.05	<0.02	0.02	0.028	0.06	7.9	5.0	0.24	369	0.70	0.02
FGL055 02+00N		2.76	20.8	1.59	4.21	<0.05	<0.02	0.03	0.019	0.05	9.5	6.7	0.24	160	0.43	0.03
FGL055 02+25N		13.70	18.8	2.45	4.62	<0.05	0.02	0.05	0.051	0.08	18.6	10.9	0.43	735	0.40	0.02
FGL055 02+75N		3.08	14.3	1.61	3.88	<0.05	<0.02	0.03	0.021	0.05	9.6	6.7	0.30	335	0.50	0.02
FGL055 03+25N		5.85	11.3	2.09	4.36	<0.05	<0.02	0.03	0.033	0.05	14.2	10.0	0.44	356	0.41	0.01
FGL055 03+50N		3.87	15.6	1.92	4.03	<0.05	<0.02	0.03	0.028	0.05	14.1	9.2	0.43	302	0.45	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL052 08+00S		0.64	9.0	460	10.6	8.4	<0.001	0.02	1.61	2.5	0.3	0.3	21.1	<0.01	0.05	0.9
FGL053 00+50S		0.50	7.8	900	31.2	8.0	<0.001	0.05	0.70	1.4	0.4	0.3	22.6	<0.01	0.08	0.3
FGL053 01+00S		0.20	2.3	480	11.1	6.0	<0.001	0.04	0.78	0.4	0.2	0.2	16.2	<0.01	0.05	<0.2
FGL053 01+50S		0.29	3.7	620	9.5	5.1	<0.001	0.08	0.65	0.5	0.2	0.2	24.2	<0.01	0.03	<0.2
FGL053 02+50S		0.64	7.8	660	13.6	7.6	<0.001	0.04	0.56	1.7	0.3	0.3	28.9	<0.01	0.02	0.4
FGL053 03+00S		0.84	9.8	710	28.0	9.8	<0.001	0.04	0.81	2.7	0.3	0.4	31.8	<0.01	0.03	0.7
FGL053 03+50S		0.95	11.7	610	26.4	8.8	<0.001	0.04	0.83	3.0	0.4	0.4	30.2	<0.01	0.04	1.2
FGL053 04+00S		0.67	10.7	880	29.0	7.2	<0.001	0.02	1.35	2.8	0.2	0.3	28.8	<0.01	0.03	1.9
FGL053 04+50S		0.77	10.3	590	35.8	11.9	<0.001	0.03	0.99	2.5	0.2	0.4	24.8	<0.01	0.06	0.8
FGL053 05+50S		0.94	11.2	620	23.2	13.7	<0.001	0.04	3.21	3.0	0.4	0.5	45.8	<0.01	0.16	1.3
FGL053 06+00S		0.86	8.9	520	10.2	6.5	<0.001	0.02	2.16	2.5	0.3	0.4	23.0	<0.01	0.05	1.4
FGL053 06+50S		1.66	13.8	300	10.7	7.8	<0.001	0.02	0.81	3.0	0.2	0.6	17.1	<0.01	0.04	1.6
FGL053 07+00S		1.40	15.0	320	11.0	8.1	<0.001	0.02	0.54	3.5	0.3	0.6	21.2	<0.01	0.03	1.9
FGL053 07+50S		0.86	11.7	260	9.9	6.5	<0.001	0.02	0.85	2.6	0.3	0.4	23.5	<0.01	0.04	0.7
FGL053 08+00S		0.97	13.3	250	8.5	5.8	<0.001	0.02	0.89	3.5	0.3	0.5	22.6	<0.01	0.05	1.4
FGL054 00+00		1.22	17.8	370	8.5	7.8	<0.001	0.02	0.61	3.7	0.3	0.5	24.2	<0.01	0.04	1.8
FGL054 00+50N		1.37	17.1	360	8.6	8.2	<0.001	0.02	0.63	3.6	0.3	0.5	20.6	<0.01	0.05	2.0
FGL054 01+00N		1.41	13.6	250	9.8	7.5	<0.001	0.02	0.47	3.5	0.2	0.6	17.8	<0.01	0.02	2.3
FGL054 01+50N		1.59	17.7	400	11.3	9.2	<0.001	0.02	0.52	3.3	0.3	0.7	19.1	<0.01	0.04	2.3
FGL054 02+00N		0.69	12.8	690	24.9	11.4	<0.001	0.04	0.85	2.6	0.7	0.5	39.4	<0.01	0.07	0.2
FGL054 03+00N		1.03	12.4	850	11.7	6.8	<0.001	0.03	1.12	3.3	0.4	0.4	27.2	<0.01	0.04	2.1
FGL054 04+00N		0.86	9.8	920	14.3	7.7	<0.001	0.05	1.21	2.9	0.5	0.4	29.7	<0.01	0.05	0.9
FGL054 06+00N		0.65	9.5	720	14.9	13.2	<0.001	0.06	2.49	2.1	0.6	0.3	47.0	<0.01	0.04	0.5
FGL054 06+50N		0.90	11.1	650	33.7	8.3	<0.001	0.07	1.04	3.0	0.4	0.4	42.6	<0.01	0.04	1.0
FGL054 07+00N		0.84	10.4	820	31.3	8.6	<0.001	0.04	0.78	2.7	0.4	0.4	26.1	<0.01	0.06	0.8
FGL054 07+50N		0.56	8.2	530	15.6	6.7	<0.001	0.04	0.43	1.5	0.3	0.3	20.1	<0.01	0.06	0.2
FGL054 08+00N		1.07	14.7	830	21.0	8.2	<0.001	0.02	0.73	3.8	0.4	0.4	27.2	<0.01	0.06	2.4
FGL055 00+00N		1.03	10.1	270	6.9	7.9	<0.001	0.02	0.50	2.1	0.2	0.4	21.0	<0.01	0.06	1.1
FGL055 00+25N		1.03	8.6	280	9.7	12.5	<0.001	0.03	0.80	1.8	0.2	0.4	20.3	<0.01	0.07	0.8
FGL055 00+50N		1.29	10.9	540	12.1	11.2	<0.001	0.02	1.30	2.7	0.2	0.5	21.5	<0.01	0.09	1.3
FGL055 00+75N		0.79	5.9	300	7.6	8.8	<0.001	0.02	0.37	1.6	0.3	0.4	22.6	<0.01	0.04	0.6
FGL055 01+00N		1.43	17.5	330	15.2	10.2	<0.001	0.02	1.52	3.6	0.3	0.5	24.2	<0.01	0.13	2.7
FGL055 01+25N		0.75	6.7	420	6.1	8.1	<0.001	0.02	0.66	1.4	0.2	0.3	21.4	<0.01	0.07	0.6
FGL055 01+50N		1.19	8.7	510	9.8	11.7	<0.001	0.03	1.18	1.9	0.2	0.6	14.1	<0.01	0.06	0.5
FGL055 01+75N		0.44	7.3	630	15.7	11.1	<0.001	0.03	2.40	1.3	0.3	0.4	20.9	<0.01	0.20	<0.2
FGL055 02+00N		0.50	9.6	470	10.7	7.2	<0.001	0.04	0.52	1.4	0.4	0.3	21.4	<0.01	0.10	<0.2
FGL055 02+25N		0.88	13.4	710	59.2	11.2	<0.001	0.04	2.48	3.9	0.7	0.4	41.8	<0.01	0.10	1.8
FGL055 02+75N		0.52	10.4	570	10.7	6.4	<0.001	0.04	1.09	1.6	0.5	0.3	24.4	<0.01	0.07	0.2
FGL055 03+25N		0.95	11.7	630	21.4	8.6	<0.001	0.03	1.85	3.2	0.5	0.4	28.1	<0.01	0.11	1.6
FGL055 03+50N		0.99	13.3	820	15.8	8.3	<0.001	0.03	1.56	3.2	0.5	0.4	27.8	<0.01	0.10	1.9

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL052 08+00S		0.031	0.18	0.35	41	0.21	6.18	55	<0.5
FGL053 00+50S		0.023	0.10	0.70	41	0.13	4.20	69	<0.5
FGL053 01+00S		0.010	0.09	0.33	14	0.10	1.93	28	<0.5
FGL053 01+50S		0.016	0.07	0.39	13	0.06	2.34	27	<0.5
FGL053 02+50S		0.035	0.11	0.42	33	0.26	3.76	55	<0.5
FGL053 03+00S		0.041	0.12	0.50	42	0.14	4.96	78	<0.5
FGL053 03+50S		0.043	0.13	0.59	42	0.17	5.00	76	<0.5
FGL053 04+00S		0.059	0.08	0.38	44	0.15	4.52	101	0.6
FGL053 04+50S		0.044	0.12	0.47	48	0.25	3.65	106	<0.5
FGL053 05+50S		0.037	0.22	0.42	49	2.45	3.88	82	<0.5
FGL053 06+00S		0.051	0.12	0.31	45	0.23	3.82	44	<0.5
FGL053 06+50S		0.095	0.09	0.32	74	0.19	2.44	47	1.1
FGL053 07+00S		0.079	0.11	0.43	63	0.16	3.87	42	1.2
FGL053 07+50S		0.056	0.08	0.41	46	0.13	5.55	40	<0.5
FGL053 08+00S		0.061	0.09	0.41	57	0.12	5.89	46	0.5
FGL054 00+00		0.071	0.08	0.40	57	0.19	4.97	48	1.1
FGL054 00+50N		0.088	0.08	0.34	66	0.16	3.72	50	1.9
FGL054 01+00N		0.084	0.10	0.40	59	0.14	3.99	41	1.6
FGL054 01+50N		0.084	0.10	0.43	76	0.21	3.26	46	1.5
FGL054 02+00N		0.033	0.09	0.73	47	0.15	12.90	49	<0.5
FGL054 03+00N		0.048	0.11	0.70	48	0.14	7.00	54	0.8
FGL054 04+00N		0.026	0.14	0.67	42	0.19	7.36	55	<0.5
FGL054 06+00N		0.023	0.13	0.58	22	0.12	8.64	91	0.6
FGL054 06+50N		0.041	0.14	0.71	36	0.14	5.43	98	0.5
FGL054 07+00N		0.045	0.15	0.78	45	0.13	4.90	83	<0.5
FGL054 07+50N		0.040	0.08	0.41	33	0.11	2.77	51	<0.5
FGL054 08+00N		0.066	0.13	0.85	47	0.17	7.42	76	0.7
FGL055 00+00N		0.058	0.07	0.32	42	0.14	3.13	41	0.5
FGL055 00+25N		0.058	0.09	0.28	46	0.15	2.40	39	0.5
FGL055 00+50N		0.069	0.10	0.35	64	0.16	3.56	54	0.7
FGL055 00+75N		0.042	0.06	0.37	30	0.10	5.26	27	0.6
FGL055 01+00N		0.063	0.11	0.40	57	0.20	4.25	61	1.7
FGL055 01+25N		0.045	0.05	0.25	34	0.12	2.62	29	<0.5
FGL055 01+50N		0.067	0.09	0.31	68	0.22	2.03	45	0.6
FGL055 01+75N		0.034	0.09	0.31	45	0.16	3.97	52	<0.5
FGL055 02+00N		0.039	0.07	0.47	40	0.10	6.71	42	<0.5
FGL055 02+25N		0.039	0.17	0.53	48	0.22	10.20	147	0.5
FGL055 02+75N		0.034	0.07	0.48	38	0.14	6.06	44	<0.5
FGL055 03+25N		0.043	0.18	0.42	46	0.28	7.20	88	<0.5
FGL055 03+50N		0.051	0.14	0.58	41	0.29	7.28	73	0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL055 03+75N		0.48	0.0022	0.45	0.84	9.4	<0.02	<10	170	0.17	1.90	0.22	0.13	13.80	4.6	13
FGL055 04+00N		0.37	0.0036	0.39	1.35	11.3	<0.02	<10	230	0.23	1.63	0.30	0.20	19.85	5.7	23
FGL055 04+25N		0.46	0.0035	0.27	1.49	13.4	<0.02	<10	220	0.26	1.47	0.35	0.13	21.1	6.7	25
FGL055 04+50N		0.62	0.0025	0.31	1.28	19.8	<0.02	<10	210	0.25	1.59	0.39	0.13	17.10	6.9	22
FGL055 04+75N		0.29	0.0123	1.56	1.10	36.5	<0.02	<10	330	0.27	16.95	0.36	0.46	17.10	11.8	15
FGL055 05+00N		0.39	0.0032	0.51	1.07	36.4	<0.02	<10	290	0.14	1.99	0.30	0.21	14.95	5.6	17
FGL055 05+25N		0.56	0.0033	0.20	1.23	18.4	<0.02	<10	160	0.22	1.45	0.29	0.15	15.05	6.3	19
FGL055 05+50N		0.49	0.0031	0.29	1.63	21.8	<0.02	<10	280	0.34	1.25	0.38	0.28	23.0	8.7	28
FGL055 05+75N		0.37	0.0018	0.22	0.93	15.1	<0.02	<10	140	0.17	0.77	0.21	0.25	13.00	6.7	15
FGL055 06+00N		0.30	0.0030	0.40	1.24	26.6	<0.02	<10	170	0.18	1.13	0.23	0.28	14.55	4.6	20
FGL055 06+25N		0.33	0.0026	0.40	1.30	14.8	<0.02	<10	160	0.25	0.66	0.25	0.26	15.80	6.6	21
FGL055 06+50N		0.62	0.0028	0.27	1.64	14.9	<0.02	<10	180	0.35	0.62	0.33	0.20	22.8	10.2	26
FGL055 06+75N		0.44	0.0045	0.23	1.36	11.1	<0.02	<10	110	0.25	0.52	0.26	0.17	15.45	5.1	21
FGL055 07+00N		0.49	0.0039	0.20	1.24	8.7	<0.02	<10	100	0.23	0.64	0.29	0.18	16.50	5.1	21
FGL055 07+25N		0.58	0.0097	0.20	1.32	9.5	<0.02	<10	110	0.22	0.71	0.33	0.19	16.90	6.8	22
FGL055 07+50N		0.28	0.0027	0.33	1.11	10.7	<0.02	<10	110	0.25	0.77	0.22	0.29	12.80	4.7	18
FGL055 07+75N		0.30	0.0053	0.46	1.26	9.2	<0.02	<10	160	0.23	0.59	0.26	0.76	17.10	4.9	20
FGL056 00+00		0.39	0.0008	0.33	0.95	5.9	<0.02	<10	200	0.20	0.51	0.11	0.38	13.65	3.6	16
FGL056 00+25N		0.59	0.0070	0.75	1.92	13.1	<0.02	<10	310	0.46	0.81	0.18	0.22	19.70	7.5	28
FGL056 00+50N		0.54	0.0018	0.23	1.76	9.9	<0.02	<10	320	0.41	0.32	0.18	0.28	20.7	7.8	29
FGL056 00+75N		0.40	0.0012	0.26	1.39	9.2	<0.02	<10	260	0.34	0.41	0.18	0.26	18.15	5.2	21
FGL056 01+00N		0.45	0.0020	0.30	1.96	11.1	<0.02	<10	330	0.45	0.78	0.24	0.28	19.85	9.5	28
FGL056 01+25N		0.71	0.0022	0.17	1.36	21.6	<0.02	<10	140	0.27	0.36	0.22	0.20	18.65	7.3	23
FGL056 01+50N		0.56	0.0029	0.60	2.39	14.1	<0.02	<10	180	0.56	0.88	0.15	0.27	21.6	10.6	32
FGL056 01+75N		0.83	0.0041	0.43	2.02	21.7	<0.02	<10	480	0.59	2.61	0.25	0.27	27.0	10.9	29
FGL056 020+00N		0.54	0.0025	0.36	2.64	14.8	<0.02	<10	370	0.73	0.47	0.18	0.41	26.3	11.3	36
FGL056 02+50N		0.27	0.0035	0.31	1.24	12.0	<0.02	<10	150	0.34	3.10	0.24	0.30	16.10	7.5	19
FGL056 02+75N		0.42	0.0038	1.18	1.53	11.5	<0.02	<10	210	0.44	4.54	0.19	0.48	16.45	7.4	21
FGL056 03+00N		0.63	0.0051	1.22	1.45	25.6	<0.02	<10	310	0.51	4.10	0.33	0.68	31.5	9.1	22
FGL056 03+50N		0.49	0.0020	0.34	1.18	9.8	<0.02	<10	230	0.29	1.20	0.31	0.21	20.3	6.7	20
FGL056 03+75N		0.84	0.0065	0.90	1.53	13.6	<0.02	<10	290	0.32	6.18	0.48	0.21	25.9	7.2	28
FGL056 04+25N		0.23	0.0059	1.47	1.22	76.6	<0.02	<10	630	0.21	26.7	0.84	0.36	17.40	7.0	22
FGL056 05+00N		0.34	0.0027	0.18	1.35	13.8	<0.02	<10	270	0.27	0.82	0.40	0.22	18.50	4.8	22
FGL056 05+50N		0.40	0.0065	0.25	0.85	8.1	<0.02	<10	170	0.19	0.42	0.25	0.32	13.15	5.5	15
FGL056 05+75N		0.41	0.0041	0.29	1.38	21.4	<0.02	<10	240	0.30	0.60	0.28	0.41	19.65	5.6	23
FGL056 06+00N		0.52	0.0033	0.18	1.16	7.0	<0.02	<10	160	0.22	0.36	0.22	0.19	15.95	4.7	19
FGL056 06+25N		0.38	0.0034	0.24	0.97	7.4	<0.02	<10	130	0.26	0.37	0.18	0.19	11.05	9.1	13
FGL056 06+75N		0.22	0.0006	0.11	0.65	2.6	<0.02	<10	50	0.14	0.17	0.07	0.11	6.37	1.7	6
FGL056 07+00N		0.43	0.0040	0.28	1.17	10.1	<0.02	<10	130	0.31	0.53	0.15	0.42	11.50	4.4	14
FGL056 07+50N		0.77	0.0036	0.16	1.24	6.3	<0.02	<10	150	0.32	0.38	0.37	0.61	22.2	5.9	21

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL055 03+75N		2.40	8.9	1.32	3.28	<0.05	<0.02	0.04	0.017	0.04	7.2	5.3	0.23	307	0.35	0.02	
FGL055 04+00N		3.05	12.9	1.68	4.93	<0.05	<0.02	0.05	0.026	0.04	10.1	8.6	0.37	192	0.41	0.01	
FGL055 04+25N		3.82	15.5	1.93	4.92	<0.05	0.02	0.05	0.029	0.05	10.7	10.9	0.43	303	0.36	0.01	
FGL055 04+50N		3.44	12.7	2.05	4.30	<0.05	0.02	0.04	0.024	0.05	9.3	9.4	0.44	270	0.50	0.01	
FGL055 04+75N		4.51	17.5	1.67	3.86	<0.05	0.03	0.06	0.029	0.03	9.1	6.7	0.26	1180	0.50	0.02	
FGL055 05+00N		4.86	9.8	1.73	4.35	<0.05	<0.02	0.05	0.024	0.04	7.8	7.6	0.35	513	0.43	0.01	
FGL055 05+25N		2.81	12.8	1.75	4.71	<0.05	0.02	0.04	0.021	0.04	8.0	9.0	0.39	438	0.43	0.02	
FGL055 05+50N		2.47	16.2	2.38	5.55	<0.05	0.02	0.04	0.030	0.05	11.9	11.1	0.49	497	0.73	0.01	
FGL055 05+75N		1.82	10.2	1.48	3.53	<0.05	<0.02	0.03	0.017	0.04	6.7	5.7	0.25	329	0.46	0.02	
FGL055 06+00N		2.23	15.2	1.73	4.37	<0.05	<0.02	0.05	0.020	0.04	7.8	7.1	0.33	134	0.54	0.02	
FGL055 06+25N		1.84	18.8	1.97	4.66	<0.05	<0.02	0.04	0.019	0.05	8.1	7.8	0.38	228	0.69	0.02	
FGL055 06+50N		1.89	16.0	2.41	5.80	<0.05	<0.02	0.02	0.024	0.06	11.8	12.0	0.57	338	0.69	0.01	
FGL055 06+75N		1.48	12.0	1.76	4.98	<0.05	<0.02	0.03	0.016	0.05	8.4	8.0	0.45	162	0.32	0.01	
FGL055 07+00N		1.39	12.0	1.71	4.57	<0.05	<0.02	0.03	0.017	0.05	9.0	8.0	0.44	164	0.34	0.01	
FGL055 07+25N		1.58	10.1	1.80	5.02	<0.05	<0.02	0.03	0.018	0.05	9.0	8.9	0.53	219	0.41	0.01	
FGL055 07+50N		1.46	13.3	1.62	4.31	<0.05	<0.02	0.04	0.015	0.04	7.1	6.3	0.36	151	0.44	0.01	
FGL055 07+75N		1.43	17.1	1.58	4.72	<0.05	<0.02	0.05	0.017	0.04	9.2	7.3	0.38	183	0.37	0.02	
FGL056 00+00		1.18	14.4	1.61	5.82	<0.05	0.02	0.01	0.015	0.05	7.1	5.3	0.21	120	0.62	0.01	
FGL056 00+25N		1.57	16.7	2.67	6.26	<0.05	0.04	0.03	0.028	0.07	10.2	14.0	0.44	197	0.79	0.01	
FGL056 00+50N		1.47	14.5	2.48	6.59	<0.05	0.04	0.01	0.025	0.07	10.3	12.0	0.43	293	0.74	0.01	
FGL056 00+75N		1.36	19.3	2.14	6.49	<0.05	0.02	0.01	0.018	0.06	9.3	9.5	0.29	228	0.74	0.01	
FGL056 01+00N		2.91	16.3	2.69	6.32	<0.05	0.02	0.02	0.030	0.07	10.1	13.9	0.44	367	0.81	0.02	
FGL056 01+25N		4.17	12.8	3.10	6.84	<0.05	0.02	0.02	0.046	0.06	8.7	11.0	0.35	362	0.94	0.01	
FGL056 01+50N		3.91	23.2	2.82	5.69	<0.05	0.06	0.03	0.035	0.07	10.3	15.5	0.54	260	0.70	0.01	
FGL056 01+75N		6.58	16.4	3.06	6.54	<0.05	0.02	0.02	0.066	0.06	12.7	11.9	0.53	412	0.89	0.01	
FGL056 020+00N		4.66	15.5	3.48	7.19	<0.05	0.08	0.03	0.037	0.07	14.5	18.9	0.53	309	0.81	0.01	
FGL056 02+50N		5.54	12.6	2.12	4.45	<0.05	<0.02	0.01	0.027	0.06	8.3	9.1	0.37	317	0.53	0.01	
FGL056 02+75N		6.17	15.3	2.02	5.29	<0.05	<0.02	0.03	0.030	0.06	7.8	9.5	0.32	358	0.66	0.02	
FGL056 03+00N		10.15	18.3	2.11	4.81	<0.05	0.02	0.05	0.037	0.07	16.8	11.2	0.40	397	0.53	0.01	
FGL056 03+50N		3.16	12.9	1.95	4.52	<0.05	<0.02	0.03	0.025	0.04	10.4	7.9	0.38	213	0.47	0.01	
FGL056 03+75N		4.62	15.1	2.05	5.07	<0.05	0.02	0.06	0.032	0.05	13.4	11.4	0.49	288	0.43	0.01	
FGL056 04+25N		8.24	31.1	1.96	4.23	<0.05	0.04	0.10	0.046	0.04	10.2	6.6	0.34	1190	1.11	0.02	
FGL056 05+00N		2.47	14.3	1.64	4.48	<0.05	0.02	0.04	0.026	0.04	9.3	9.2	0.43	206	0.18	0.02	
FGL056 05+50N		1.03	11.0	1.74	3.59	<0.05	<0.02	0.03	0.015	0.03	6.6	5.1	0.25	166	0.23	0.02	
FGL056 05+75N		1.73	23.8	1.89	4.85	<0.05	<0.02	0.04	0.020	0.05	10.3	8.3	0.37	138	0.35	0.01	
FGL056 06+00N		1.29	15.3	1.65	4.27	<0.05	<0.02	0.03	0.016	0.04	8.2	7.1	0.31	145	0.34	0.02	
FGL056 06+25N		1.50	15.5	1.27	3.51	<0.05	<0.02	0.03	0.012	0.04	5.3	4.8	0.24	379	0.36	0.03	
FGL056 06+75N		0.91	6.6	0.59	2.26	<0.05	<0.02	0.02	0.007	0.03	3.1	2.4	0.10	70	0.07	0.02	
FGL056 07+00N		1.60	15.6	1.37	4.17	<0.05	<0.02	0.03	0.016	0.05	6.0	6.7	0.27	151	0.35	0.02	
FGL056 07+50N		1.36	14.8	1.65	4.32	<0.05	0.02	0.03	0.019	0.05	11.4	8.6	0.51	188	0.08	0.02	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL055 03+75N		0.59	6.3	600	13.1	6.3	<0.001	0.04	1.34	1.5	0.2	0.3	18.3	<0.01	0.05	0.4	
FGL055 04+00N		0.91	10.5	890	17.2	7.0	<0.001	0.06	0.91	2.3	0.4	0.4	25.0	<0.01	0.06	0.5	
FGL055 04+25N		1.12	12.0	880	24.2	8.1	<0.001	0.06	0.98	3.0	0.4	0.4	28.1	<0.01	0.06	1.3	
FGL055 04+50N		1.02	11.5	770	22.8	8.1	<0.001	0.04	1.37	2.8	0.4	0.3	31.8	<0.01	0.06	1.7	
FGL055 04+75N		0.63	7.7	830	26.9	6.6	<0.001	0.08	3.04	1.8	0.6	0.3	35.4	<0.01	0.12	0.6	
FGL055 05+00N		0.63	6.7	880	20.4	8.2	<0.001	0.07	3.20	1.9	0.4	0.3	26.4	<0.01	0.04	0.5	
FGL055 05+25N		0.78	8.8	800	16.9	7.7	<0.001	0.06	3.25	2.3	0.3	0.3	23.1	<0.01	0.04	0.8	
FGL055 05+50N		1.09	12.8	960	25.8	9.1	<0.001	0.06	1.26	3.4	0.5	0.4	27.0	<0.01	0.06	1.5	
FGL055 05+75N		0.56	7.0	650	18.4	6.7	<0.001	0.05	0.60	1.5	0.3	0.3	16.3	<0.01	0.04	0.2	
FGL055 06+00N		0.63	8.9	720	24.1	8.8	<0.001	0.06	0.59	1.4	0.3	0.3	18.9	<0.01	0.05	<0.2	
FGL055 06+25N		0.66	10.1	800	26.5	8.3	<0.001	0.06	0.69	1.5	0.5	0.3	20.3	<0.01	0.07	<0.2	
FGL055 06+50N		1.17	14.7	780	29.2	9.5	<0.001	0.03	0.70	3.1	0.4	0.4	24.2	<0.01	0.06	1.2	
FGL055 06+75N		0.80	9.8	640	19.6	7.7	<0.001	0.04	0.41	1.9	0.3	0.3	22.9	<0.01	0.05	0.3	
FGL055 07+00N		0.94	9.6	740	21.1	7.0	<0.001	0.04	0.46	2.3	0.4	0.3	23.8	<0.01	0.05	0.7	
FGL055 07+25N		0.92	10.7	790	20.1	6.9	<0.001	0.04	0.57	2.3	0.4	0.4	28.0	<0.01	0.07	0.8	
FGL055 07+50N		0.56	8.1	660	31.5	6.3	<0.001	0.06	0.45	1.2	0.4	0.3	23.6	<0.01	0.07	<0.2	
FGL055 07+75N		0.79	8.7	720	52.0	6.7	<0.001	0.07	0.45	2.1	0.4	0.3	25.3	<0.01	0.05	0.3	
FGL056 00+00		1.41	7.3	220	7.4	9.5	<0.001	0.03	0.32	1.9	0.2	0.5	14.1	<0.01	0.05	1.1	
FGL056 00+25N		1.68	16.5	350	13.8	8.7	<0.001	0.03	0.54	3.6	0.4	0.5	18.7	<0.01	0.07	2.5	
FGL056 00+50N		1.80	14.1	350	10.4	10.6	<0.001	0.03	0.36	3.6	0.3	0.6	17.9	<0.01	0.04	2.6	
FGL056 00+75N		1.60	9.9	370	8.7	9.7	<0.001	0.03	0.39	2.3	0.3	0.5	22.6	<0.01	0.04	1.4	
FGL056 01+00N		1.59	16.0	650	11.0	11.5	<0.001	0.03	0.67	3.1	0.3	0.5	24.5	<0.01	0.07	1.7	
FGL056 01+25N		1.56	11.0	560	17.7	12.7	<0.001	0.03	1.66	2.9	0.3	0.5	22.8	<0.01	0.77	1.9	
FGL056 01+50N		1.75	21.2	340	11.2	8.8	<0.001	0.03	1.17	4.0	0.5	0.5	15.2	0.01	0.14	3.1	
FGL056 01+75N		1.42	16.3	360	34.9	8.7	<0.001	0.03	2.57	3.9	0.6	0.6	23.8	<0.01	0.47	2.6	
FGL056 020+00N		2.20	20.9	380	14.0	10.3	<0.001	0.03	0.88	4.4	0.5	0.6	18.3	0.01	0.07	3.6	
FGL056 02+50N		0.86	11.9	650	24.0	8.1	<0.001	0.03	1.46	2.0	0.3	0.4	19.0	<0.01	0.26	0.6	
FGL056 02+75N		0.95	11.5	640	54.0	9.4	<0.001	0.04	0.95	1.9	0.3	0.4	19.7	<0.01	0.31	0.4	
FGL056 03+00N		0.98	13.9	860	51.3	9.6	<0.001	0.04	1.46	3.3	0.8	0.4	29.2	<0.01	0.34	1.2	
FGL056 03+50N		0.87	11.0	820	20.2	7.1	<0.001	0.04	1.14	2.8	0.5	0.4	22.2	<0.01	0.08	1.1	
FGL056 03+75N		1.16	14.0	920	36.0	8.1	<0.001	0.05	1.76	3.6	0.5	0.4	41.7	<0.01	0.09	1.8	
FGL056 04+25N		0.63	13.3	900	50.3	8.4	0.001	0.10	3.41	3.0	0.8	0.3	58.7	<0.01	0.12	1.1	
FGL056 05+00N		0.84	10.6	580	19.6	6.8	<0.001	0.06	2.07	2.8	0.4	0.3	31.4	<0.01	0.04	1.4	
FGL056 05+50N		0.52	7.5	720	26.1	4.5	<0.001	0.03	0.52	1.7	0.4	0.2	17.4	<0.01	0.03	0.5	
FGL056 05+75N		0.75	11.2	790	34.0	8.1	<0.001	0.03	0.63	2.1	0.4	0.4	21.9	<0.01	0.05	0.4	
FGL056 06+00N		0.52	9.4	600	17.8	6.9	<0.001	0.02	0.37	1.2	0.3	0.3	18.0	<0.01	0.03	0.2	
FGL056 06+25N		0.34	7.0	480	28.4	6.7	<0.001	0.04	0.41	0.9	0.3	0.2	18.0	<0.01	0.05	<0.2	
FGL056 06+75N		0.33	3.0	300	12.2	3.8	<0.001	0.02	0.17	0.4	<0.2	0.2	8.8	<0.01	0.02	<0.2	
FGL056 07+00N		0.51	8.2	460	32.0	8.2	<0.001	0.03	0.49	1.1	0.3	0.3	16.9	<0.01	0.05	<0.2	
FGL056 07+50N		0.95	11.6	700	47.6	6.6	<0.001	0.01	0.65	3.2	0.5	0.3	24.0	<0.01	0.05	2.2	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL055 03+75N		0.035	0.11	0.31	33	0.25	3.18	49	<0.5
FGL055 04+00N		0.038	0.15	0.54	39	0.19	4.78	70	<0.5
FGL055 04+25N		0.046	0.17	0.49	45	0.31	5.21	75	0.7
FGL055 04+50N		0.046	0.13	0.42	43	0.73	4.73	78	0.8
FGL055 04+75N		0.023	0.19	0.40	31	0.64	5.58	77	1.0
FGL055 05+00N		0.027	0.19	0.35	39	0.39	3.58	83	<0.5
FGL055 05+25N		0.036	0.15	0.47	41	0.12	3.64	74	0.5
FGL055 05+50N		0.040	0.17	0.75	54	0.23	5.66	91	0.7
FGL055 05+75N		0.034	0.13	0.46	37	0.17	3.17	62	<0.5
FGL055 06+00N		0.030	0.18	0.53	36	0.13	3.41	75	<0.5
FGL055 06+25N		0.037	0.11	0.55	44	0.14	3.66	74	<0.5
FGL055 06+50N		0.060	0.13	0.61	52	0.25	5.05	94	<0.5
FGL055 06+75N		0.051	0.10	0.50	40	0.10	3.59	62	<0.5
FGL055 07+00N		0.055	0.09	0.51	40	0.12	4.10	65	<0.5
FGL055 07+25N		0.055	0.09	0.48	41	0.21	4.03	73	<0.5
FGL055 07+50N		0.033	0.09	0.47	35	0.09	3.11	68	<0.5
FGL055 07+75N		0.039	0.11	0.60	36	0.19	5.22	98	<0.5
FGL056 00+00		0.072	0.08	0.34	52	0.16	2.10	33	0.6
FGL056 00+25N		0.068	0.10	0.44	60	0.17	4.70	57	1.7
FGL056 00+50N		0.085	0.10	0.49	61	0.16	4.03	56	1.7
FGL056 00+75N		0.070	0.07	0.41	58	0.22	2.75	41	0.9
FGL056 01+00N		0.063	0.11	0.44	61	0.18	3.90	64	0.7
FGL056 01+25N		0.053	0.14	0.35	73	0.18	2.82	64	0.8
FGL056 01+50N		0.067	0.11	0.45	58	0.19	3.87	57	2.3
FGL056 01+75N		0.056	0.13	0.50	63	0.16	6.05	105	0.9
FGL056 020+00N		0.084	0.11	0.51	71	0.21	7.11	74	3.3
FGL056 02+50N		0.050	0.08	0.33	47	0.12	3.63	82	<0.5
FGL056 02+75N		0.038	0.09	0.39	45	0.15	3.75	114	<0.5
FGL056 03+00N		0.040	0.16	0.68	44	0.16	10.35	153	0.5
FGL056 03+50N		0.046	0.11	0.52	49	0.17	5.62	70	<0.5
FGL056 03+75N		0.049	0.15	0.61	47	0.29	7.22	80	0.7
FGL056 04+25N		0.019	0.33	0.46	39	0.46	7.35	93	1.4
FGL056 05+00N		0.036	0.16	0.45	39	0.18	4.98	91	0.8
FGL056 05+50N		0.051	0.08	0.38	49	0.10	3.59	70	<0.5
FGL056 05+75N		0.038	0.12	0.62	43	0.14	4.85	91	<0.5
FGL056 06+00N		0.036	0.09	0.45	37	0.13	3.45	57	<0.5
FGL056 06+25N		0.027	0.09	0.39	28	0.13	2.81	65	<0.5
FGL056 06+75N		0.022	0.04	0.23	13	0.06	1.17	23	<0.5
FGL056 07+00N		0.028	0.08	0.39	29	0.13	2.73	84	<0.5
FGL056 07+50N		0.056	0.09	0.73	39	0.13	6.02	126	1.0

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL056 07+75N		0.61	0.0019	0.25	1.20	13.4	<0.02	<10	160	0.26	0.45	0.33	0.86	15.55	9.5	17
FGL057 00+00N		0.63	0.0006	0.37	1.39	9.2	<0.02	<10	360	0.27	0.48	0.12	0.85	15.35	7.8	20
FGL057 00+25N		0.78	0.0012	0.43	2.08	13.7	<0.02	<10	430	0.44	0.70	0.16	0.56	18.30	9.2	33
FGL057 00+50N		0.58	0.0019	0.63	1.80	26.0	<0.02	<10	450	0.39	7.50	0.20	0.22	16.60	6.3	27
FGL057 00+75N		0.67	0.0011	0.26	1.68	19.4	<0.02	<10	410	0.28	1.67	0.17	0.29	15.90	5.7	21
FGL057 01+00N		0.69	0.0039	0.85	1.81	10.4	<0.02	<10	300	0.38	0.44	0.16	0.46	17.35	9.4	28
FGL057 01+25N		0.90	0.0020	0.49	1.98	15.0	<0.02	<10	360	0.39	1.05	0.20	0.23	16.50	7.6	25
FGL057 01+50N		0.74	0.0007	0.85	1.79	14.9	<0.02	<10	270	0.33	0.96	0.15	0.18	16.20	6.2	25
FGL057 01+75N		0.76	0.0014	0.33	2.00	14.9	<0.02	<10	300	0.42	0.78	0.17	0.21	19.85	8.4	31
FGL057 02+00N		0.71	0.0007	0.20	1.43	16.9	<0.02	<10	280	0.26	0.37	0.21	0.18	17.70	5.5	22
FGL057 02+25N		0.60	0.0019	0.33	1.62	12.5	<0.02	<10	250	0.36	0.36	0.14	0.12	19.00	6.2	24
FGL057 02+50N		0.62	0.0025	0.24	2.00	10.6	<0.02	<10	340	0.48	0.23	0.27	0.21	20.7	8.2	32
FGL057 02+75N		0.78	0.0078	0.22	1.66	15.8	<0.02	<10	330	0.41	0.70	0.29	0.30	23.6	8.2	26
FGL057 03+00N		0.52	0.0021	0.17	1.12	10.9	<0.02	<10	200	0.34	0.31	0.35	0.42	17.80	5.9	20
FGL057 03+50N		0.87	0.0027	0.30	1.56	19.7	<0.02	<10	520	0.44	0.88	0.45	0.33	30.6	7.8	28
FGL057 03+75N		0.67	0.0064	1.29	1.86	40.6	<0.02	<10	1060	0.53	4.76	0.58	0.46	36.3	10.5	27
FGL057 04+25N		0.77	0.0030	0.33	1.44	20.5	0.03	<10	420	0.30	0.55	0.59	0.27	19.60	6.2	25
FGL057 04+75N		0.25	0.0011	0.28	1.10	9.7	<0.02	<10	220	0.26	0.44	0.12	0.35	12.20	3.7	15
FGL057 05+00N		0.39	0.0034	0.43	1.48	12.3	<0.02	<10	360	0.40	0.73	0.30	0.38	17.50	5.6	19
FGL057 05+25N		0.42	0.0020	0.31	1.18	8.1	<0.02	<10	160	0.29	0.53	0.18	0.36	11.85	5.3	16
FGL057 05+50N		0.40	0.0028	0.40	0.94	6.2	<0.02	<10	130	0.22	0.45	0.13	0.53	8.05	5.7	12
FGL057 06+00N		0.67	0.0017	0.17	1.15	6.0	<0.02	<10	200	0.26	0.36	0.27	0.24	21.2	6.1	20
FGL057 06+25N		0.85	0.0035	0.07	1.47	9.3	<0.02	<10	150	0.32	0.35	0.30	0.27	20.7	6.0	25
FGL057 06+50N		0.67	0.0014	0.10	1.70	16.0	<0.02	<10	140	0.31	0.50	0.29	0.36	17.95	14.1	24
FGL057 06+75N		0.64	0.0074	0.10	2.03	18.7	<0.02	<10	150	0.43	0.61	0.19	0.48	19.20	9.6	28
FGL057 07+25N		0.74	0.0013	0.19	2.04	13.0	<0.02	<10	180	0.36	0.52	0.23	0.71	15.55	8.5	24
FGL057 07+50N		0.40	0.0012	0.13	1.07	4.9	<0.02	<10	80	0.29	0.23	0.08	0.34	10.60	4.1	10
FGL057 07+75N		0.64	0.0036	0.12	1.74	14.8	<0.02	<10	140	0.44	0.63	0.26	0.79	20.1	10.7	24
FGL058 00+50N		0.73	0.0044	0.21	1.68	28.8	<0.02	<10	190	0.48	0.55	0.28	0.50	20.1	10.7	23
FGL058 01+00N		0.86	0.0155	0.32	1.51	12.2	<0.02	<10	270	0.42	0.54	0.40	0.39	30.1	10.2	26
FGL058 01+50N		0.47	0.0019	0.21	1.25	9.4	<0.02	<10	140	0.20	0.51	0.26	0.14	14.50	4.4	18
FGL058 02+50N		0.32	0.0018	0.20	0.81	5.0	<0.02	<10	100	0.12	0.30	0.18	0.10	10.05	2.7	14
FGL058 03+50N		0.29	0.0023	0.16	1.14	7.8	<0.02	<10	130	0.20	0.25	0.29	0.11	17.75	4.5	19
FGL058 04+00N		0.22	0.0022	0.16	1.22	7.9	<0.02	<10	120	0.20	0.24	0.23	0.10	16.60	5.5	19
FGL059 00+00		0.84	0.0028	0.13	1.51	9.1	<0.02	<10	170	0.30	0.24	0.28	0.10	21.9	7.8	22
FGL059 00+50S		0.40	0.0021	0.14	1.35	6.5	<0.02	<10	190	0.28	0.22	0.24	0.10	20.1	6.5	22
FGL059 01+50S		0.31	0.0016	0.13	1.02	7.2	<0.02	<10	120	0.21	0.16	0.28	0.08	15.15	4.1	15
FGL059 02+00S		0.24	0.0010	0.06	0.64	8.9	<0.02	<10	90	0.15	0.12	0.14	0.06	10.80	2.2	10
FGL059 02+50S		0.19	0.0027	0.15	0.90	12.7	<0.02	<10	110	0.15	0.20	0.23	0.10	13.85	3.3	15
FGL059 03+00S		0.52	0.0039	0.18	1.34	10.5	<0.02	<10	170	0.39	0.26	0.37	0.13	27.3	7.5	20

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL056 07+75N		1.20	13.9	2.03	4.76	<0.05	0.02	0.02	0.017	0.04	8.0	7.2	0.48	548	0.75	0.02	
FGL057 00+00N		1.59	17.2	2.26	6.19	<0.05	0.02	0.02	0.021	0.08	7.8	9.1	0.32	534	0.51	0.01	
FGL057 00+25N		1.51	17.8	2.89	6.50	<0.05	0.07	0.02	0.029	0.08	8.5	13.4	0.56	279	0.70	0.01	
FGL057 00+50N		2.67	17.4	3.13	7.77	<0.05	0.03	0.02	0.038	0.08	7.9	16.0	0.44	214	0.75	0.01	
FGL057 00+75N		2.08	13.3	2.92	7.35	<0.05	0.02	0.01	0.053	0.06	7.7	13.8	0.37	303	0.62	0.01	
FGL057 01+00N		1.80	19.1	2.69	7.08	<0.05	0.03	0.03	0.025	0.05	8.9	13.1	0.40	681	0.70	0.01	
FGL057 01+25N		5.95	14.9	2.83	7.47	<0.05	0.04	0.02	0.039	0.07	8.0	14.6	0.49	356	0.65	0.01	
FGL057 01+50N		3.10	15.2	2.88	7.46	<0.05	0.05	0.02	0.030	0.06	8.1	15.3	0.38	211	0.71	0.01	
FGL057 01+75N		4.67	18.4	3.01	6.88	<0.05	0.05	0.02	0.032	0.07	8.8	16.2	0.50	246	0.63	0.01	
FGL057 02+00N		3.65	12.6	2.16	7.21	<0.05	0.03	0.02	0.027	0.05	9.2	9.9	0.37	245	0.68	0.01	
FGL057 02+25N		3.10	14.0	2.29	5.42	<0.05	0.04	0.02	0.029	0.04	9.2	11.4	0.42	202	0.48	0.01	
FGL057 02+50N		3.22	18.1	2.72	6.38	<0.05	0.02	0.02	0.027	0.07	10.3	13.7	0.49	245	0.58	0.01	
FGL057 02+75N		7.33	16.2	2.44	5.84	<0.05	<0.02	0.02	0.031	0.06	11.9	12.1	0.48	337	0.42	0.01	
FGL057 03+00N		6.50	13.6	1.82	4.37	<0.05	<0.02	0.02	0.021	0.05	8.1	7.8	0.33	364	0.31	0.02	
FGL057 03+50N		7.20	15.9	2.22	5.60	<0.05	<0.02	0.02	0.029	0.06	14.6	10.9	0.51	357	0.35	0.01	
FGL057 03+75N		11.85	27.8	2.58	6.07	<0.05	0.02	0.11	0.055	0.07	21.3	12.2	0.40	792	1.06	0.01	
FGL057 04+25N		3.16	21.9	1.90	4.70	<0.05	0.03	0.04	0.025	0.06	10.3	11.9	0.44	259	0.29	0.02	
FGL057 04+75N		3.18	14.6	1.39	3.93	<0.05	<0.02	0.04	0.022	0.05	6.8	6.0	0.21	176	0.22	0.02	
FGL057 05+00N		4.03	26.3	1.60	4.67	<0.05	<0.02	0.03	0.022	0.06	9.3	8.8	0.30	254	0.30	0.02	
FGL057 05+25N		2.05	17.5	1.54	4.34	<0.05	<0.02	0.02	0.016	0.05	5.8	7.1	0.26	223	0.31	0.02	
FGL057 05+50N		1.79	13.9	1.07	3.57	<0.05	<0.02	0.03	0.014	0.04	4.0	4.8	0.18	272	0.30	0.02	
FGL057 06+00N		1.24	20.4	1.63	4.10	<0.05	<0.02	0.03	0.017	0.04	10.7	8.1	0.36	162	0.31	0.01	
FGL057 06+25N		1.46	15.9	2.08	4.99	<0.05	<0.02	0.02	0.021	0.06	10.7	11.6	0.45	227	0.48	0.01	
FGL057 06+50N		2.02	15.4	3.04	7.16	<0.05	<0.02	0.01	0.023	0.06	8.8	15.1	0.52	805	0.84	0.01	
FGL057 06+75N		2.25	17.4	2.99	7.53	<0.05	0.02	0.02	0.031	0.07	9.7	16.9	0.51	439	0.79	0.01	
FGL057 07+25N		1.83	24.5	2.59	6.26	<0.05	<0.02	0.02	0.024	0.06	7.7	14.9	0.49	384	0.54	0.01	
FGL057 07+50N		0.86	12.4	1.10	3.50	<0.05	<0.02	0.02	0.010	0.03	5.0	4.9	0.16	154	0.21	0.02	
FGL057 07+75N		1.80	18.4	2.49	6.20	<0.05	0.08	0.02	0.027	0.07	10.3	13.3	0.56	412	0.75	0.01	
FGL058 00+50N		2.84	18.2	2.55	6.21	<0.05	<0.02	0.02	0.024	0.06	10.3	11.6	0.53	508	0.79	0.01	
FGL058 01+00N		2.22	16.9	2.07	5.16	<0.05	0.02	0.03	0.024	0.06	14.9	11.4	0.59	376	0.53	0.01	
FGL058 01+50N		1.75	10.7	1.61	4.69	<0.05	<0.02	0.03	0.016	0.04	7.5	8.0	0.38	154	0.47	0.02	
FGL058 02+50N		1.34	10.8	1.17	3.62	<0.05	<0.02	0.04	0.012	0.03	5.2	4.2	0.21	113	0.32	0.02	
FGL058 03+50N		1.73	9.2	1.49	4.33	<0.05	<0.02	0.04	0.016	0.04	9.6	7.5	0.37	149	0.32	0.01	
FGL058 04+00N		2.14	8.9	1.59	4.45	<0.05	<0.02	0.03	0.018	0.04	8.7	7.9	0.38	160	0.37	0.01	
FGL059 00+00		2.79	10.0	2.03	5.31	<0.05	<0.02	0.03	0.021	0.05	11.5	10.8	0.52	268	0.42	0.01	
FGL059 00+50S		2.79	10.6	1.64	4.80	<0.05	<0.02	0.04	0.019	0.05	10.4	9.1	0.40	192	0.41	0.02	
FGL059 01+50S		2.30	9.5	1.46	4.00	<0.05	<0.02	0.04	0.013	0.04	8.1	6.4	0.35	141	0.35	0.02	
FGL059 02+00S		0.87	6.1	1.00	2.44	<0.05	<0.02	0.02	0.008	0.03	5.8	3.2	0.15	60	0.22	0.02	
FGL059 02+50S		1.50	9.6	1.47	3.33	<0.05	<0.02	0.05	0.012	0.04	7.8	4.7	0.23	93	0.23	0.02	
FGL059 03+00S		2.93	12.0	1.93	4.79	<0.05	0.02	0.03	0.017	0.05	15.1	9.3	0.53	248	0.31	0.02	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL056 07+75N		0.70	9.7	880	44.0	5.9	<0.001	0.02	0.77	2.2	0.3	0.3	21.5	<0.01	0.05	0.9	
FGL057 00+00N		1.27	10.6	290	24.2	11.7	<0.001	0.01	0.69	2.2	0.2	0.6	12.6	<0.01	0.04	1.2	
FGL057 00+25N		1.51	21.1	220	11.2	9.9	<0.001	0.01	0.68	3.7	0.3	0.6	18.5	<0.01	0.07	2.7	
FGL057 00+50N		1.66	15.9	260	12.7	10.3	<0.001	0.01	1.49	3.3	0.4	0.6	30.3	<0.01	0.65	1.9	
FGL057 00+75N		1.34	10.9	280	20.0	9.3	<0.001	0.01	1.68	2.5	0.2	0.6	23.2	<0.01	0.19	1.6	
FGL057 01+00N		1.60	15.7	220	10.9	8.6	<0.001	0.01	0.57	3.4	0.3	0.6	17.7	<0.01	0.04	2.1	
FGL057 01+25N		1.22	16.3	280	14.3	12.7	<0.001	0.01	1.78	3.8	0.3	0.6	24.0	<0.01	0.09	2.3	
FGL057 01+50N		1.62	14.2	230	12.9	11.2	<0.001	0.01	1.00	3.0	0.3	0.6	18.1	<0.01	0.15	2.2	
FGL057 01+75N		1.46	19.3	260	15.9	11.2	<0.001	0.01	1.26	3.8	0.3	0.6	17.8	<0.01	0.11	2.6	
FGL057 02+00N		1.67	11.0	200	10.7	13.5	<0.001	0.01	0.86	2.7	0.2	0.7	20.8	<0.01	0.04	1.9	
FGL057 02+25N		1.38	14.8	190	11.1	7.2	<0.001	0.01	0.94	3.1	0.2	0.5	15.0	<0.01	0.07	2.6	
FGL057 02+50N		1.76	16.7	370	10.5	9.4	<0.001	0.01	0.59	3.5	0.4	0.6	23.2	0.01	0.05	2.1	
FGL057 02+75N		1.01	16.2	500	20.9	9.8	<0.001	0.01	1.53	3.2	0.5	0.5	25.3	<0.01	0.27	1.0	
FGL057 03+00N		0.67	11.2	530	19.9	7.5	<0.001	0.01	1.55	2.0	0.3	0.4	23.6	<0.01	0.09	0.4	
FGL057 03+50N		0.71	16.0	820	19.8	8.6	<0.001	0.02	2.35	3.5	0.6	0.5	38.9	<0.01	0.07	0.9	
FGL057 03+75N		0.62	13.1	1070	32.5	11.8	<0.001	0.06	4.37	4.5	1.0	0.5	49.3	<0.01	0.09	1.4	
FGL057 04+25N		0.95	14.9	550	30.1	8.9	<0.001	0.03	2.43	3.5	0.3	0.4	86.6	<0.01	0.06	1.7	
FGL057 04+75N		0.43	8.1	490	8.7	8.0	<0.001	0.03	0.62	0.9	0.3	0.3	11.9	<0.01	0.02	<0.2	
FGL057 05+00N		0.66	11.5	450	31.5	9.6	<0.001	0.04	0.87	2.0	0.4	0.4	23.4	<0.01	0.05	0.3	
FGL057 05+25N		0.59	8.9	460	36.1	7.4	<0.001	0.02	0.57	1.4	0.2	0.3	16.5	<0.01	0.05	0.2	
FGL057 05+50N		0.37	6.4	390	63.6	6.2	<0.001	0.03	0.41	0.7	0.3	0.3	14.0	<0.01	0.06	<0.2	
FGL057 06+00N		0.73	11.4	710	20.5	7.0	<0.001	0.01	0.44	2.2	0.4	0.4	19.2	<0.01	0.03	0.6	
FGL057 06+25N		1.01	13.4	730	22.6	8.5	<0.001	0.01	0.61	2.4	0.3	0.4	19.0	<0.01	0.03	0.9	
FGL057 06+50N		1.22	11.4	730	48.5	11.1	<0.001	0.01	1.01	2.7	0.3	0.5	26.0	<0.01	0.07	1.1	
FGL057 06+75N		1.48	14.9	570	41.2	11.9	<0.001	0.01	0.80	3.4	0.3	0.6	17.5	<0.01	0.06	1.5	
FGL057 07+25N		1.35	13.9	510	50.8	10.5	<0.001	0.01	0.78	2.7	0.2	0.5	23.4	<0.01	0.07	1.2	
FGL057 07+50N		0.66	4.8	340	32.0	4.3	<0.001	0.02	0.34	1.0	0.2	0.3	10.8	<0.01	0.03	0.3	
FGL057 07+75N		1.45	16.2	520	59.4	12.9	<0.001	0.01	0.84	3.5	0.3	0.5	23.8	<0.01	0.07	2.5	
FGL058 00+50N		0.83	13.7	720	57.7	9.6	<0.001	0.01	1.16	2.7	0.5	0.4	21.9	<0.01	0.12	0.6	
FGL058 01+00N		0.98	14.4	930	53.0	8.3	<0.001	0.01	0.98	4.2	0.5	0.4	24.9	<0.01	0.09	2.2	
FGL058 01+50N		0.71	8.8	750	32.2	8.3	<0.001	0.02	0.44	1.8	0.3	0.3	17.9	<0.01	0.04	0.4	
FGL058 02+50N		0.40	5.2	620	17.2	6.5	<0.001	0.04	0.31	0.8	0.2	0.3	15.3	<0.01	0.02	<0.2	
FGL058 03+50N		0.73	9.2	740	10.9	7.4	<0.001	0.03	0.41	2.0	0.4	0.3	20.1	<0.01	0.06	0.4	
FGL058 04+00N		0.70	9.3	700	13.5	8.3	<0.001	0.03	0.40	1.9	0.3	0.3	16.9	<0.01	0.04	0.4	
FGL059 00+00		0.84	12.0	810	13.5	9.9	<0.001	0.02	0.72	2.8	0.4	0.4	18.6	<0.01	0.04	1.1	
FGL059 00+50S		0.69	11.3	670	14.3	10.1	<0.001	0.03	0.58	2.2	0.4	0.4	19.9	<0.01	0.03	0.4	
FGL059 01+50S		0.50	7.7	850	9.1	6.1	<0.001	0.04	0.49	1.3	0.3	0.3	19.2	<0.01	0.03	0.2	
FGL059 02+00S		0.37	4.4	670	5.5	4.0	<0.001	0.04	0.24	0.6	0.4	0.2	12.1	<0.01	0.03	<0.2	
FGL059 02+50S		0.45	6.7	750	8.5	5.2	<0.001	0.05	0.42	1.0	0.3	0.2	18.5	<0.01	0.06	<0.2	
FGL059 03+00S		0.87	11.5	850	12.3	7.5	<0.001	0.03	0.88	3.1	0.5	0.3	24.7	<0.01	0.08	1.8	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL056 07+75N		0.043	0.08	0.46	50	0.31	4.59	142	0.6
FGL057 00+00N		0.053	0.10	0.29	58	0.16	2.57	112	0.6
FGL057 00+25N		0.076	0.11	0.39	66	0.21	3.00	82	2.8
FGL057 00+50N		0.051	0.12	0.34	71	0.22	3.04	72	1.2
FGL057 00+75N		0.037	0.14	0.29	65	0.26	2.74	101	0.8
FGL057 01+00N		0.074	0.10	0.39	65	0.20	3.08	50	1.5
FGL057 01+25N		0.052	0.13	0.34	61	0.24	2.98	88	2.1
FGL057 01+50N		0.068	0.15	0.35	66	0.20	2.64	59	2.4
FGL057 01+75N		0.077	0.12	0.41	67	0.19	3.40	64	2.5
FGL057 02+00N		0.072	0.13	0.35	65	0.18	2.57	49	1.4
FGL057 02+25N		0.064	0.11	0.41	54	0.18	3.21	49	1.9
FGL057 02+50N		0.083	0.11	0.49	64	0.20	3.93	60	1.0
FGL057 02+75N		0.058	0.12	0.42	56	0.18	7.40	84	<0.5
FGL057 03+00N		0.047	0.08	0.34	45	0.18	4.19	89	<0.5
FGL057 03+50N		0.037	0.19	0.58	47	0.34	7.88	99	<0.5
FGL057 03+75N		0.017	0.35	0.89	52	1.16	11.90	113	0.5
FGL057 04+25N		0.050	0.12	0.37	44	0.16	5.29	144	1.0
FGL057 04+75N		0.029	0.08	0.37	33	0.13	3.46	80	<0.5
FGL057 05+00N		0.032	0.11	0.40	36	0.13	6.42	114	<0.5
FGL057 05+25N		0.040	0.08	0.33	39	0.25	2.95	94	<0.5
FGL057 05+50N		0.027	0.08	0.28	26	0.13	2.10	122	<0.5
FGL057 06+00N		0.049	0.09	0.61	38	0.14	5.30	69	<0.5
FGL057 06+25N		0.058	0.10	0.49	47	0.17	4.69	87	0.5
FGL057 06+50N		0.065	0.10	0.42	68	0.31	3.60	118	<0.5
FGL057 06+75N		0.064	0.11	0.46	67	0.19	3.53	132	0.8
FGL057 07+25N		0.061	0.10	0.34	60	0.18	2.85	172	0.6
FGL057 07+50N		0.036	0.06	0.30	26	0.10	2.02	55	0.5
FGL057 07+75N		0.069	0.10	0.49	54	0.16	4.39	169	3.3
FGL058 00+50N		0.050	0.12	0.50	55	0.15	4.89	161	<0.5
FGL058 01+00N		0.061	0.12	0.72	47	0.15	8.41	134	0.6
FGL058 01+50N		0.040	0.11	0.38	41	0.13	3.06	81	<0.5
FGL058 02+50N		0.028	0.08	0.39	28	0.08	2.03	41	<0.5
FGL058 03+50N		0.038	0.09	0.54	34	0.18	4.30	52	<0.5
FGL058 04+00N		0.032	0.11	0.51	37	0.24	3.68	57	<0.5
FGL059 00+00		0.044	0.12	0.61	45	0.15	4.81	67	<0.5
FGL059 00+50S		0.033	0.12	0.67	38	0.14	4.99	54	<0.5
FGL059 01+50S		0.028	0.09	0.56	29	0.12	3.42	45	<0.5
FGL059 02+00S		0.022	0.06	0.39	26	0.10	2.51	22	<0.5
FGL059 02+50S		0.030	0.08	0.59	28	0.09	3.57	37	<0.5
FGL059 03+00S		0.046	0.09	0.91	41	0.12	7.43	67	0.5

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To: TRIUMPH GOLD CORP.
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SUITE 1100
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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL059 03+50S		0.46	0.0047	0.52	1.18	16.7	<0.02	<10	170	0.27	1.29	0.29	0.45	17.65	6.3	18
FGL060 00+50N		0.70	0.0028	0.08	1.22	6.1	<0.02	<10	140	0.18	0.24	0.29	0.08	18.20	4.2	21
FGL060 01+50N		0.62	0.0012	0.07	1.06	8.4	<0.02	<10	150	0.20	0.15	0.23	0.06	14.35	6.8	16
FGL060 02+00N		0.68	0.0021	0.08	1.28	5.1	<0.02	<10	160	0.22	0.18	0.28	0.07	18.20	5.1	19
FGL060 02+50N		0.56	0.0018	0.12	1.31	6.8	<0.02	<10	200	0.22	0.20	0.26	0.08	16.55	5.4	20

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CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL059 03+50S		3.16	78.2	1.94	4.19	<0.05	<0.02	0.03	0.026	0.05	8.7	8.4	0.39	463	0.50	0.02
FGL060 00+50N		2.32	9.8	1.41	5.04	<0.05	<0.02	0.03	0.017	0.05	9.7	8.0	0.39	140	0.21	0.02
FGL060 01+50N		2.21	7.6	1.78	3.98	<0.05	<0.02	0.03	0.013	0.04	7.5	6.2	0.31	570	0.52	0.02
FGL060 02+00N		1.90	8.3	1.54	4.57	<0.05	<0.02	0.03	0.016	0.04	9.3	8.3	0.42	184	0.28	0.02
FGL060 02+50N		2.34	9.4	1.74	4.68	<0.05	<0.02	0.04	0.016	0.04	8.8	8.3	0.42	215	0.39	0.02

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CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL059 03+50S		0.68	10.2	590	84.4	8.8	<0.001	0.02	1.69	2.2	0.3	0.3	19.5	<0.01	0.05	0.7
FGL060 00+50N		0.90	9.3	660	10.5	7.6	<0.001	0.03	0.63	2.0	0.2	0.4	20.2	<0.01	0.02	0.6
FGL060 01+50N		0.60	6.9	820	7.6	6.3	<0.001	0.04	0.56	1.6	0.3	0.3	17.1	<0.01	0.04	0.5
FGL060 02+00N		0.73	9.4	780	9.4	7.7	<0.001	0.03	0.52	1.9	0.3	0.3	19.2	<0.01	0.02	0.6
FGL060 02+50N		0.71	9.2	790	8.2	8.3	<0.001	0.04	0.49	2.1	0.3	0.3	20.5	<0.01	0.02	0.6

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CERTIFICATE OF ANALYSIS WH17164260

Sample Description	Method Analyte Units LOR	ME- MS41 Tl % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5
FGL059 03+50S		0.041	0.12	0.47	41	0.14	4.04	176	<0.5
FGL060 00+50N		0.052	0.11	0.50	35	0.16	3.68	53	<0.5
FGL060 01+50N		0.032	0.10	0.54	40	0.11	3.37	48	<0.5
FGL060 02+00N		0.037	0.09	0.51	33	0.14	3.97	54	<0.5
FGL060 02+50N		0.032	0.10	0.56	39	0.15	4.25	54	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164260

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
Applies to Method: LOG- 22 SCR- 41 WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Applies to Method: Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164274

Project: Freegold Mtd - Tinta Property

This report is for 124 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	WEI- 21	Au- ST43	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL061 00+00		0.51	0.0011	0.08	0.92	3.3	<0.02	<10	170	0.24	0.22	0.29	0.09	13.40	4.0	16
FGL061 05+50S		0.77	0.0023	0.12	1.64	7.6	<0.02	<10	290	0.52	0.16	0.45	0.10	30.4	9.1	26
FGL061 01+00S		0.35	0.0048	0.15	1.00	4.7	<0.02	<10	350	0.30	0.17	0.62	0.07	19.25	4.2	12
FGL061 02+00S		0.63	0.0043	0.19	1.19	18.9	<0.02	<10	180	0.40	0.25	0.27	0.12	37.0	7.2	19
FGL061 02+50S		0.69	0.0014	0.09	2.01	13.3	<0.02	<10	240	0.42	0.17	0.26	0.13	24.5	9.7	32
FGL062 00+00		0.71	0.0026	0.05	1.92	15.5	<0.02	<10	220	0.45	0.18	0.26	0.19	23.1	8.8	29
FGL062 00+50N		0.66	0.0023	0.02	1.75	11.5	<0.02	<10	180	0.34	0.15	0.20	0.12	21.3	8.6	29
FGL062 01+00N		0.66	0.0008	0.08	1.20	10.0	<0.02	<10	130	0.37	0.13	0.19	0.10	20.9	6.4	16
FGL062 01+50N		0.74	0.0011	0.07	1.38	6.0	<0.02	<10	230	0.45	0.10	0.37	0.07	24.8	6.9	20
FGL062 02+00N		0.82	0.0049	0.06	1.53	6.1	<0.02	<10	230	0.31	0.14	0.38	0.12	21.3	8.0	26
FGL062 02+50N		0.72	0.0010	0.04	1.33	8.7	<0.02	<10	160	0.33	0.17	0.39	0.09	20.6	7.0	24
FGL063 00+00		0.71	0.0011	0.04	1.32	5.0	<0.02	<10	180	0.33	0.11	0.45	0.07	21.6	6.7	18
FGL063 00+50S		0.79	0.0031	0.07	2.80	10.8	<0.02	<10	270	0.81	0.18	0.25	0.11	30.4	11.1	36
FGL063 01+00S		0.55	0.0070	0.03	1.70	10.0	<0.02	<10	170	0.47	0.18	0.18	0.14	27.5	5.7	22
FGL063 02+00S		0.80	0.0004	0.03	1.40	11.6	<0.02	<10	190	0.46	0.11	0.22	0.06	29.9	8.0	11
FGL063 02+50S		0.64	0.0026	0.02	2.00	10.4	<0.02	<10	180	0.43	0.27	0.28	0.06	24.5	8.9	29
FGL064 00+00		0.41	0.0008	0.04	2.14	10.8	<0.02	<10	210	0.38	0.18	0.23	0.15	19.90	8.2	30
FGL064 00+50N		0.45	0.0008	0.05	1.40	5.7	<0.02	<10	260	0.62	0.09	0.36	0.07	31.7	5.7	20
FGL064 01+00N		0.46	0.0008	0.02	1.76	7.9	<0.02	<10	180	0.30	0.12	0.24	0.10	17.65	7.7	20
FGL064 01+50N		0.44	0.0015	0.05	1.73	6.7	<0.02	<10	190	0.32	0.13	0.21	0.09	14.25	6.5	23
FGL064 02+00N		0.43	0.0024	0.02	2.64	11.2	<0.02	<10	210	0.52	0.15	0.19	0.13	18.50	10.6	37
FGL064 02+50N		0.34	0.0008	0.03	1.09	6.4	<0.02	<10	100	0.19	0.16	0.10	0.09	13.65	3.5	15
FGL064 04+00N		0.44	0.0008	0.05	1.18	5.4	<0.02	<10	240	0.28	0.09	0.52	0.06	21.7	7.0	19
FGL064 05+50N		0.44	0.0005	0.03	0.87	2.8	<0.02	<10	120	0.16	0.07	0.43	0.09	12.00	6.0	15
FGL064 06+50N		0.57	0.0030	0.04	1.55	4.8	<0.02	<10	150	0.24	0.10	0.47	0.05	17.75	7.0	28
FGL064 07+50N		0.54	0.0011	0.06	1.65	5.2	<0.02	<10	150	0.31	0.11	0.48	0.09	18.00	11.8	35
FGL064 08+00N		0.60	0.0010	0.05	2.07	6.2	<0.02	<10	160	0.41	0.11	0.55	0.08	18.75	9.6	48
FGL064 08+50N		0.60	0.0011	0.05	1.60	4.4	<0.02	<10	150	0.29	0.10	0.45	0.08	17.95	6.4	32
FGL065 00+00N		0.29	0.0003	0.03	0.48	1.7	<0.02	<10	50	0.09	0.05	0.10	0.05	6.44	1.9	5
FGL065 00+50N		0.27	0.0005	0.05	0.55	1.4	<0.02	<10	90	0.15	0.05	0.11	0.09	8.51	2.0	7
FGL065 01+00N		0.21	0.0008	0.08	0.88	1.6	<0.02	<10	130	0.21	0.06	0.24	0.06	11.75	2.8	11
FGL065 01+50N		0.44	0.0021	0.10	2.03	4.6	<0.02	<10	260	0.70	0.11	0.58	0.10	44.1	9.5	41
FGL066 04+50N		0.29	0.0027	0.14	2.20	9.8	<0.02	<10	180	0.52	0.15	0.24	0.07	24.2	7.2	33
FGL066 05+00S		0.32	0.0006	0.06	1.28	4.9	<0.02	<10	150	0.29	0.09	0.24	0.17	16.30	5.2	17
FGL066 05+50S		0.34	0.0006	0.04	1.62	6.1	<0.02	<10	130	0.27	0.09	0.19	0.09	11.30	6.9	24
FGL067 00+00S		0.48	0.0017	0.09	1.32	14.3	<0.02	<10	250	0.37	0.30	0.40	0.30	20.3	8.9	18
FGL067 00+50S		0.48	0.0031	0.16	1.64	10.3	<0.02	<10	410	0.43	0.23	0.83	0.23	19.55	9.1	27
FGL067 01+00		0.45	0.0024	0.11	1.50	9.1	<0.02	<10	350	0.34	0.21	0.58	0.20	15.90	6.5	26
FGL067 01+50S		0.23	0.0046	0.34	1.84	2.4	0.15	<10	410	0.39	0.19	1.02	0.83	19.10	5.4	19
FGL067 02+00S		0.32	0.0030	0.20	1.73	4.4	<0.02	<10	370	0.42	0.12	0.85	0.38	22.7	6.6	21

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Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL061 00+00		1.22	15.1	1.28	3.52	<0.05	<0.02	0.03	0.012	0.04	6.7	5.9	0.29	219	0.34	0.02
FGL061 05+50S		2.23	15.6	2.26	5.34	<0.05	0.03	0.04	0.021	0.05	15.6	10.7	0.55	309	0.46	0.02
FGL061 01+00S		2.72	14.4	1.24	3.55	<0.05	0.02	0.05	0.013	0.04	12.1	5.1	0.20	236	0.43	0.03
FGL061 02+00S		8.07	12.8	2.21	4.29	<0.05	<0.02	0.02	0.018	0.06	14.9	8.5	0.37	436	0.47	0.02
FGL061 02+50S		4.02	16.7	3.11	7.18	<0.05	0.02	0.02	0.027	0.06	11.1	15.6	0.55	399	0.80	0.01
FGL062 00+00		3.44	19.2	3.19	6.94	<0.05	<0.02	0.02	0.026	0.08	11.3	14.8	0.50	391	0.74	0.02
FGL062 00+50N		1.99	20.1	2.96	6.47	<0.05	0.03	0.01	0.024	0.08	10.0	15.7	0.51	265	0.71	0.01
FGL062 01+00N		5.15	11.1	2.12	5.42	<0.05	<0.02	0.01	0.017	0.06	9.4	7.7	0.34	406	0.52	0.02
FGL062 01+50N		2.86	13.1	1.90	4.90	<0.05	0.03	0.02	0.018	0.05	13.6	9.9	0.53	388	0.34	0.02
FGL062 02+00N		2.33	17.2	1.95	5.44	<0.05	0.04	0.02	0.020	0.05	11.0	11.0	0.51	545	0.49	0.01
FGL062 02+50N		2.28	13.0	2.14	4.69	<0.05	<0.02	0.02	0.016	0.06	9.8	9.4	0.54	362	0.41	0.02
FGL063 00+00		2.09	10.2	1.94	4.74	<0.05	<0.02	0.02	0.017	0.05	10.6	9.0	0.48	433	0.39	0.02
FGL063 00+50S		1.59	23.0	3.26	7.16	<0.05	0.05	0.08	0.030	0.08	12.2	17.4	0.73	401	0.48	0.01
FGL063 01+00S		1.36	15.6	2.71	7.26	<0.05	<0.02	0.02	0.021	0.06	15.3	11.8	0.37	232	0.67	0.01
FGL063 02+00S		2.23	10.5	2.46	4.48	<0.05	<0.02	0.01	0.017	0.06	16.9	8.4	0.25	460	0.60	0.01
FGL063 02+50S		2.24	14.8	2.71	5.81	<0.05	0.03	0.01	0.023	0.07	11.6	14.3	0.60	286	0.59	0.01
FGL064 00+00		2.17	20.0	3.10	7.99	<0.05	0.02	0.01	0.025	0.08	9.7	15.2	0.55	300	0.88	0.01
FGL064 00+50N		3.12	11.8	1.82	4.79	<0.05	<0.02	0.02	0.018	0.06	24.2	9.6	0.40	273	0.51	0.02
FGL064 01+00N		1.02	9.1	2.66	6.83	<0.05	<0.02	0.01	0.018	0.05	8.7	16.7	0.72	397	0.73	0.01
FGL064 01+50N		0.75	13.2	2.37	6.34	<0.05	0.02	0.01	0.018	0.05	7.5	13.6	0.49	255	0.68	0.01
FGL064 02+00N		1.21	25.2	3.09	6.47	<0.05	0.12	0.01	0.029	0.07	8.2	16.8	0.65	267	0.72	0.01
FGL064 02+50N		0.67	9.8	2.03	6.96	<0.05	<0.02	0.01	0.012	0.04	7.0	6.5	0.18	143	0.75	0.01
FGL064 04+00N		0.81	12.1	1.81	4.01	<0.05	0.04	0.20	0.014	0.04	11.0	8.7	0.44	781	0.37	0.02
FGL064 05+50N		0.57	7.8	1.33	3.29	<0.05	0.03	0.02	0.009	0.04	6.0	6.3	0.34	499	0.30	0.02
FGL064 06+50N		0.89	9.6	1.99	5.19	<0.05	0.03	0.02	0.019	0.05	9.2	12.0	0.63	290	0.27	0.01
FGL064 07+50N		0.87	13.0	2.47	5.65	<0.05	0.04	0.02	0.021	0.05	9.0	11.9	0.66	541	0.56	0.01
FGL064 08+00N		0.98	14.6	2.67	7.11	<0.05	0.04	0.01	0.021	0.06	10.1	15.2	0.87	324	0.45	0.01
FGL064 08+50N		0.83	11.8	1.97	5.04	<0.05	0.03	0.01	0.018	0.05	9.7	11.6	0.60	222	0.35	0.01
FGL065 00+00N		0.32	7.3	0.85	2.29	<0.05	<0.02	0.01	<0.005	0.03	2.8	1.7	0.07	78	0.23	0.02
FGL065 00+50N		0.47	11.4	0.85	2.33	<0.05	<0.02	0.01	0.006	0.03	4.2	2.1	0.08	65	0.24	0.02
FGL065 01+00N		0.89	9.4	0.82	3.12	<0.05	<0.02	0.02	0.008	0.03	7.0	4.3	0.17	85	0.23	0.03
FGL065 01+50N		0.88	26.8	2.45	6.45	0.05	0.06	0.04	0.024	0.05	23.1	14.3	0.85	359	0.32	0.02
FGL066 04+50N		1.26	14.1	2.79	6.75	<0.05	0.05	0.03	0.024	0.06	12.7	15.0	0.50	229	0.67	0.01
FGL066 05+00S		1.08	20.9	1.83	4.85	<0.05	<0.02	0.02	0.015	0.05	8.2	8.2	0.29	264	0.65	0.02
FGL066 05+50S		1.68	10.6	2.41	5.84	<0.05	<0.02	0.02	0.018	0.05	5.0	12.9	0.46	280	0.54	0.02
FGL067 00+00S		3.12	22.1	2.54	5.07	<0.05	0.02	0.02	0.026	0.06	11.0	12.7	0.43	491	0.56	0.02
FGL067 00+50S		3.11	19.6	2.42	5.55	<0.05	0.03	0.03	0.023	0.07	11.1	13.6	0.61	500	0.66	0.01
FGL067 01+00		3.14	12.8	2.24	5.48	<0.05	0.02	0.03	0.018	0.06	9.1	13.2	0.52	311	0.66	0.02
FGL067 01+50S		3.92	20.0	1.57	5.64	<0.05	0.03	0.06	0.018	0.05	11.2	11.6	0.44	197	0.22	0.02
FGL067 02+00S		3.27	16.7	2.19	5.75	<0.05	0.04	0.07	0.019	0.05	13.9	11.9	0.45	312	0.25	0.02

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CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL061 00+00		0.58	8.4	630	4.4	6.9	<0.001	0.04	0.44	1.5	0.3	0.3	23.6	<0.01	0.01	0.4
FGL061 05+50S		1.09	14.7	830	8.2	8.3	<0.001	0.03	0.72	4.2	0.5	0.4	30.0	<0.01	0.03	2.6
FGL061 01+00S		0.65	6.9	740	6.7	5.5	<0.001	0.07	0.55	1.3	0.5	0.3	43.2	<0.01	0.03	0.2
FGL061 02+00S		0.70	11.3	700	12.6	8.1	<0.001	0.02	0.91	2.5	0.4	0.3	24.6	<0.01	0.09	1.3
FGL061 02+50S		1.68	18.8	460	10.0	11.6	<0.001	0.02	0.65	3.7	0.3	0.6	23.8	<0.01	0.03	1.9
FGL062 00+00		1.18	15.5	640	10.0	10.5	<0.001	0.01	0.61	3.1	0.4	0.5	21.8	<0.01	0.04	1.0
FGL062 00+50N		1.60	18.4	350	8.8	9.9	<0.001	0.01	0.49	3.6	0.3	0.5	21.0	<0.01	0.03	2.7
FGL062 01+00N		0.46	8.6	590	10.0	9.1	<0.001	0.02	0.83	1.6	0.3	0.4	15.9	<0.01	0.04	0.3
FGL062 01+50N		0.80	12.3	720	7.5	6.2	<0.001	0.02	0.67	3.4	0.4	0.4	25.9	<0.01	0.02	2.4
FGL062 02+00N		0.89	13.9	910	9.5	8.3	<0.001	0.03	0.47	3.2	0.5	0.4	27.3	<0.01	0.02	1.8
FGL062 02+50N		0.87	13.0	850	8.8	7.7	<0.001	0.01	0.92	2.9	0.3	0.3	25.2	<0.01	0.03	1.8
FGL063 00+00		0.69	9.7	920	6.6	6.5	<0.001	0.02	0.60	2.2	0.3	0.3	28.4	<0.01	0.01	0.8
FGL063 00+50S		1.68	22.4	550	8.4	10.9	<0.001	0.01	0.43	4.8	0.5	0.6	20.8	<0.01	0.02	3.2
FGL063 01+00S		1.16	11.5	700	8.4	8.3	<0.001	0.01	0.44	2.6	0.3	0.5	19.7	<0.01	0.03	0.6
FGL063 02+00S		0.38	6.1	620	11.3	9.7	<0.001	0.01	0.80	1.8	0.4	0.2	18.3	<0.01	0.03	2.2
FGL063 02+50S		1.38	19.3	620	8.0	8.8	<0.001	0.01	0.46	3.9	0.3	0.5	19.4	<0.01	0.02	2.9
FGL064 00+00		1.63	17.7	390	9.7	11.3	<0.001	0.01	0.44	3.9	0.3	0.6	23.8	<0.01	0.03	2.2
FGL064 00+50N		0.68	12.4	450	5.9	7.6	<0.001	0.01	0.35	3.3	0.5	0.3	31.3	<0.01	0.01	1.8
FGL064 01+00N		1.00	11.2	320	8.3	8.6	<0.001	0.01	0.76	2.7	0.2	0.5	26.2	<0.01	0.02	1.3
FGL064 01+50N		1.41	11.9	240	6.8	7.1	<0.001	0.01	0.28	2.6	0.2	0.5	23.5	<0.01	0.02	1.6
FGL064 02+00N		1.67	23.6	250	9.5	8.8	<0.001	0.01	0.46	4.2	0.3	0.6	20.9	0.01	0.03	3.4
FGL064 02+50N		1.25	6.6	360	7.1	5.9	<0.001	0.01	0.32	1.3	0.2	0.6	12.3	<0.01	0.03	0.4
FGL064 04+00N		0.73	9.9	850	5.5	4.5	<0.001	0.02	0.29	2.4	0.4	0.3	32.4	<0.01	0.02	1.6
FGL064 05+50N		0.55	7.5	830	5.1	4.5	<0.001	0.02	0.20	1.5	0.2	0.2	27.1	<0.01	0.02	1.0
FGL064 06+50N		0.92	12.3	880	8.5	7.1	<0.001	0.01	0.25	3.0	0.3	0.4	27.9	<0.01	0.02	2.2
FGL064 07+50N		0.76	13.3	1100	7.5	7.5	<0.001	0.03	0.25	3.0	0.3	0.4	29.1	<0.01	0.02	1.4
FGL064 08+00N		0.91	18.6	1140	9.0	8.2	<0.001	0.02	0.32	3.9	0.3	0.4	33.0	<0.01	0.02	2.0
FGL064 08+50N		0.81	13.5	860	7.9	7.0	<0.001	0.02	0.25	3.0	0.3	0.4	26.0	<0.01	0.02	1.7
FGL065 00+00N		0.19	2.6	370	2.1	2.8	<0.001	0.01	0.10	0.3	<0.2	0.2	10.8	<0.01	0.01	<0.2
FGL065 00+50N		0.15	3.5	290	2.4	3.6	<0.001	0.02	0.10	0.3	<0.2	0.2	12.1	<0.01	0.01	<0.2
FGL065 01+00N		0.38	5.2	420	2.8	5.7	<0.001	0.03	0.12	0.7	0.2	0.2	18.0	<0.01	0.01	<0.2
FGL065 01+50N		0.75	19.6	1070	6.8	7.4	<0.001	0.02	0.32	5.7	1.0	0.4	35.0	<0.01	0.02	2.2
FGL066 04+50N		1.76	15.2	350	9.5	8.1	<0.001	0.01	0.31	4.2	0.5	0.6	20.3	0.01	0.03	3.0
FGL066 05+00S		0.61	8.7	300	7.6	7.0	<0.001	0.01	0.30	1.7	0.2	0.4	20.8	<0.01	0.01	0.2
FGL066 05+50S		0.80	11.5	310	5.9	6.8	<0.001	0.01	0.38	2.2	<0.2	0.4	18.3	<0.01	0.02	0.4
FGL067 00+00S		0.54	9.8	410	44.6	7.0	<0.001	0.01	1.75	2.9	0.3	0.3	43.6	<0.01	0.03	1.1
FGL067 00+50S		0.85	14.8	600	15.7	8.9	<0.001	0.03	0.85	3.4	0.3	0.4	86.8	<0.01	0.03	1.0
FGL067 01+00		0.94	13.8	340	22.8	8.4	<0.001	0.02	0.65	3.1	0.3	0.4	47.2	<0.01	0.02	1.1
FGL067 01+50S		0.60	9.6	1070	16.5	9.8	<0.001	0.12	0.60	3.0	0.6	0.3	88.4	<0.01	0.03	0.7
FGL067 02+00S		0.69	9.5	1210	12.7	7.5	<0.001	0.07	0.37	3.5	0.6	0.3	74.4	<0.01	0.03	1.0

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL061 00+00		0.036	0.06	0.42	29	0.10	3.50	39	<0.5
FGL061 05+50S		0.048	0.11	1.26	52	0.15	9.64	60	1.1
FGL061 01+00S		0.030	0.07	0.87	29	0.11	8.25	28	0.5
FGL061 02+00S		0.046	0.09	0.78	43	0.20	7.53	49	<0.5
FGL061 02+50S		0.078	0.12	0.49	71	0.20	4.44	58	0.7
FGL062 00+00		0.069	0.09	0.48	68	0.17	4.79	60	<0.5
FGL062 00+50N		0.087	0.09	0.44	66	0.19	3.39	52	1.3
FGL062 01+00N		0.038	0.09	0.52	51	0.12	4.09	47	<0.5
FGL062 01+50N		0.044	0.08	0.73	42	0.12	7.05	53	1.0
FGL062 02+00N		0.045	0.10	0.67	44	0.18	5.36	54	1.1
FGL062 02+50N		0.050	0.09	0.52	47	0.16	4.88	58	0.5
FGL063 00+00		0.041	0.05	0.52	44	0.18	6.69	56	<0.5
FGL063 00+50S		0.073	0.10	0.65	70	0.20	7.19	71	2.0
FGL063 01+00S		0.069	0.09	0.45	68	0.17	6.34	48	0.5
FGL063 02+00S		0.008	0.10	0.57	36	0.13	7.76	57	<0.5
FGL063 02+50S		0.068	0.10	0.46	54	0.16	5.18	55	1.3
FGL064 00+00		0.077	0.11	0.45	73	0.20	4.00	60	0.8
FGL064 00+50N		0.029	0.07	1.01	39	0.12	11.85	44	<0.5
FGL064 01+00N		0.042	0.06	0.42	59	0.15	4.29	64	<0.5
FGL064 01+50N		0.071	0.08	0.33	61	0.14	2.56	49	0.8
FGL064 02+00N		0.093	0.10	0.46	70	0.19	3.00	61	4.5
FGL064 02+50N		0.060	0.07	0.29	69	0.17	1.73	32	0.6
FGL064 04+00N		0.045	0.05	0.63	42	0.12	6.29	51	1.3
FGL064 05+50N		0.039	0.05	0.31	31	0.21	3.05	41	0.9
FGL064 06+50N		0.051	0.07	0.50	43	0.11	3.94	59	1.1
FGL064 07+50N		0.051	0.07	0.50	51	0.13	4.01	64	1.1
FGL064 08+00N		0.067	0.06	0.59	55	0.49	4.44	77	1.2
FGL064 08+50N		0.055	0.07	0.48	44	0.12	3.84	61	0.9
FGL065 00+00N		0.033	0.03	0.15	28	0.07	1.17	15	<0.5
FGL065 00+50N		0.024	0.03	0.26	25	0.05	1.75	16	<0.5
FGL065 01+00N		0.023	0.06	0.33	20	0.07	4.27	19	<0.5
FGL065 01+50N		0.038	0.08	1.76	50	0.11	20.2	63	1.6
FGL066 04+50N		0.082	0.11	0.58	66	0.22	7.00	43	1.9
FGL066 05+00S		0.039	0.07	0.32	46	0.14	3.34	34	<0.5
FGL066 05+50S		0.045	0.07	0.29	54	0.12	2.30	46	<0.5
FGL067 00+00S		0.021	0.08	0.51	41	0.12	5.27	181	0.5
FGL067 00+50S		0.041	0.09	0.54	47	0.18	6.84	73	0.9
FGL067 01+00		0.052	0.08	0.33	50	0.14	3.63	76	0.8
FGL067 01+50S		0.038	0.09	1.57	44	0.13	8.86	95	1.2
FGL067 02+00S		0.042	0.08	2.38	45	0.07	11.50	85	1.3

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL067 02+50S		0.36	0.0027	0.16	1.51	4.7	<0.02	<10	330	0.39	0.10	0.80	0.34	20.7	7.5	24
FGL067 03+00S		0.32	0.0008	0.13	0.98	2.2	<0.02	<10	160	0.18	0.09	0.09	0.30	7.26	2.0	9
FGL067 03+50S		0.32	0.0568	4.88	2.74	21.4	0.05	<10	640	0.60	6.67	0.40	0.61	22.5	8.0	35
FGL067 04+00S		0.36	0.0124	1.21	1.27	5.6	<0.02	<10	330	0.40	0.93	0.31	0.47	21.8	6.7	17
FGL067 04+50S		0.46	0.0067	1.27	2.00	8.8	<0.02	<10	920	0.66	0.61	0.56	0.57	38.1	7.4	29
FGL067 05+00S		0.37	0.0035	0.40	2.30	10.8	<0.02	<10	670	0.58	0.41	0.40	0.62	24.2	9.2	29
FGL067 05+50S		0.45	0.0062	0.19	1.65	10.6	<0.02	<10	390	0.42	0.72	0.28	0.54	19.10	8.4	25
FGL067 06+00S		0.50	0.0102	0.48	1.88	12.7	<0.02	<10	800	0.49	1.16	0.39	0.70	23.4	9.9	29
FGL067 06+50S		0.50	0.0101	0.93	1.93	15.4	<0.02	<10	370	0.49	1.05	0.28	0.46	18.20	7.2	30
FGL067 07+00S		0.51	0.0111	0.90	1.81	12.3	<0.02	<10	280	0.40	0.69	0.29	0.31	16.90	7.9	29
FGL067 07+50S		0.53	0.0022	0.55	1.25	7.8	<0.02	<10	340	0.26	0.45	0.29	0.27	15.85	5.9	20
FGL068 00+50N		0.50	0.0340	0.20	1.63	9.6	<0.02	<10	200	0.36	0.24	0.34	0.24	18.95	7.8	26
FGL068 04+00N		0.60	0.0116	0.03	1.96	5.2	<0.02	<10	270	0.57	0.08	0.45	0.08	25.9	9.2	26
FGL068 04+50N		0.55	0.0017	0.02	1.81	4.9	<0.02	<10	270	0.57	0.07	0.56	0.08	27.0	9.3	23
FGL068 05+00N		0.55	0.0055	0.09	2.48	8.5	<0.02	<10	330	0.63	0.15	0.33	0.16	32.2	10.1	33
FGL068 05+50N		0.39	0.0017	0.11	2.57	10.3	<0.02	<10	240	0.78	0.20	0.23	0.14	30.1	8.4	35
FGL068 06+00N		0.73	0.0015	0.07	2.49	9.8	<0.02	<10	290	0.61	0.14	0.24	0.14	26.7	9.5	32
FGL068 06+50N		0.51	0.0023	0.10	2.13	8.7	0.14	<10	230	0.71	0.14	0.24	0.10	33.8	8.0	31
FGL068 07+00N		0.57	0.0005	0.05	2.13	7.3	<0.02	<10	180	0.46	0.10	0.21	0.13	20.6	8.5	20
FGL068 07+50N		0.64	0.0020	0.11	2.20	9.0	<0.02	<10	250	0.63	0.13	0.25	0.05	34.6	8.3	33
FGL068 08+00N		0.54	0.0018	0.12	1.77	6.6	<0.02	<10	190	0.44	0.11	0.26	0.06	17.20	6.0	23
FGL068 11+00N		0.54	0.0025	0.12	2.12	7.8	<0.02	<10	250	0.49	0.13	0.73	0.10	28.5	9.3	24
FGL068 01+50S		0.25	0.0032	0.64	0.98	4.4	<0.02	<10	160	0.20	0.29	0.13	1.58	10.00	2.2	10
FGL068 01+50S		0.29	0.0025	0.71	1.03	4.4	<0.02	<10	160	0.21	0.21	0.12	2.30	9.01	3.0	12
FGL068 02+00S		0.37	0.0059	0.27	1.95	10.7	<0.02	<10	240	0.37	0.34	0.26	1.94	18.95	8.7	29
FGL068 02+50S		0.36	0.0046	0.60	1.33	5.6	<0.02	<10	210	0.34	0.20	0.18	0.71	13.45	5.4	17
FGL068 03+00S		0.39	0.0034	0.90	1.59	5.3	<0.02	<10	450	0.42	0.19	0.32	0.70	18.50	5.7	19
FGL068 03+50S		0.31	0.0029	0.18	1.59	8.6	<0.02	<10	380	0.34	0.23	0.35	1.52	21.2	8.7	29
FGL068 04+00S		0.49	0.0024	0.31	1.34	5.0	<0.02	<10	330	0.32	0.15	0.33	0.61	14.85	5.7	20
FGL068 04+50S		0.41	0.0032	0.40	1.39	4.4	<0.02	<10	320	0.36	0.11	0.32	0.55	17.15	5.6	19
FGL069 00+00		0.39	0.0024	0.19	1.43	5.5	<0.02	<10	410	0.28	0.15	0.49	0.55	15.25	6.7	22
FGL069 00+50N		0.51	0.0162	0.13	1.28	5.8	<0.02	<10	370	0.35	0.15	0.46	0.50	21.5	7.2	24
FGL069 01+00N		0.51	0.0056	0.26	1.54	6.6	<0.02	<10	530	0.45	0.17	0.48	0.41	22.3	6.2	26
FGL069 01+50N		0.30	0.0035	0.36	1.24	5.0	<0.02	<10	650	0.36	0.13	0.66	0.60	15.35	5.2	17
FGL069 02+00N		0.45	0.0060	0.51	1.57	6.9	<0.02	<10	860	0.42	0.18	0.48	0.65	21.0	5.3	22
FGL069 02+50N		0.37	0.0029	0.27	1.35	7.8	<0.02	<10	410	0.37	0.20	0.28	0.75	17.90	5.8	23
FGL069 03+00N		0.34	0.0033	0.26	1.11	4.6	<0.02	<10	370	0.37	0.14	0.20	0.29	17.90	3.9	14
FGL069 03+50N		0.24	0.0091	0.47	1.27	6.4	<0.02	<10	400	0.40	0.21	0.16	1.23	23.5	5.6	18
FGL069 04+00N		0.36	0.0093	1.15	1.39	8.8	<0.02	<10	420	0.52	0.35	0.23	5.06	18.30	6.1	20
FGL069 05+00N		0.37	0.0027	0.18	2.31	8.7	<0.02	<10	470	0.63	0.17	0.22	0.30	18.65	7.9	25

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL067 02+50S		1.91	16.9	1.97	5.54	<0.05	0.03	0.07	0.018	0.04	11.9	11.2	0.50	303	0.26	0.02	
FGL067 03+00S		1.64	12.2	0.74	3.34	<0.05	<0.02	0.02	0.010	0.04	3.8	4.3	0.12	65	0.26	0.03	
FGL067 03+50S		8.93	191.0	3.04	7.53	<0.05	0.02	0.21	0.105	0.09	13.7	13.1	0.44	411	1.05	0.02	
FGL067 04+00S		2.72	83.8	1.96	4.35	<0.05	0.03	0.07	0.029	0.04	11.8	5.4	0.23	342	0.36	0.02	
FGL067 04+50S		3.65	81.6	2.23	5.65	0.05	0.04	0.09	0.036	0.06	24.7	10.5	0.46	334	0.47	0.01	
FGL067 05+00S		3.48	58.2	2.63	6.68	<0.05	0.02	0.04	0.039	0.07	13.6	12.0	0.47	576	0.60	0.02	
FGL067 05+50S		2.04	32.8	2.38	5.43	<0.05	0.03	0.02	0.039	0.06	9.9	11.2	0.53	417	0.47	0.01	
FGL067 06+00S		2.03	49.8	2.77	6.15	<0.05	0.03	0.02	0.056	0.07	12.9	12.8	0.56	497	0.60	0.01	
FGL067 06+50S		1.43	33.6	2.82	6.13	<0.05	0.04	0.02	0.056	0.06	9.0	15.3	0.53	243	0.76	0.01	
FGL067 07+00S		1.27	25.2	2.59	5.95	<0.05	0.04	0.02	0.040	0.05	8.7	13.3	0.48	238	0.68	0.01	
FGL067 07+50S		0.98	22.7	1.83	4.75	<0.05	0.02	0.02	0.029	0.05	9.1	8.4	0.36	264	0.55	0.02	
FGL068 00+50N		1.58	22.8	2.33	5.53	<0.05	0.03	0.02	0.027	0.05	9.5	12.0	0.53	311	0.58	0.01	
FGL068 04+00N		0.59	14.4	2.60	6.56	<0.05	<0.02	0.02	0.019	0.05	13.8	13.7	0.76	422	0.35	0.01	
FGL068 04+50N		0.52	13.1	2.58	6.46	<0.05	0.02	0.01	0.019	0.04	14.1	13.4	0.77	447	0.30	0.01	
FGL068 05+00N		1.27	29.4	2.87	8.01	<0.05	0.02	0.03	0.031	0.07	19.0	17.3	0.66	421	1.11	0.02	
FGL068 05+50N		1.33	19.7	3.20	8.95	<0.05	<0.02	0.03	0.030	0.08	13.2	16.6	0.59	336	0.80	0.01	
FGL068 06+00N		1.18	20.1	2.79	6.74	<0.05	0.02	0.02	0.025	0.07	12.8	14.5	0.59	350	0.64	0.01	
FGL068 06+50N		1.12	15.9	2.73	6.92	<0.05	<0.02	0.02	0.025	0.07	15.8	14.3	0.54	307	0.66	0.02	
FGL068 07+00N		1.06	14.0	2.74	7.26	<0.05	<0.02	0.02	0.024	0.07	8.5	15.5	0.58	319	0.49	0.02	
FGL068 07+50N		1.07	19.2	2.76	6.49	<0.05	0.05	0.03	0.023	0.07	18.3	14.2	0.60	258	0.52	0.01	
FGL068 08+00N		0.88	14.6	2.21	5.66	<0.05	<0.02	0.06	0.020	0.06	8.6	11.0	0.44	221	0.53	0.02	
FGL068 11+00N		1.14	12.3	3.19	7.39	0.05	0.07	0.03	0.030	0.05	18.3	15.6	0.72	580	0.44	0.03	
FGL068 01+00S		1.71	19.1	1.02	3.70	<0.05	<0.02	0.03	0.023	0.06	5.1	4.5	0.15	95	0.37	0.02	
FGL068 01+50S		2.02	16.7	1.27	3.84	<0.05	<0.02	0.02	0.018	0.05	4.7	5.0	0.17	131	0.35	0.02	
FGL068 02+00S		2.18	26.9	2.53	5.87	<0.05	0.02	0.02	0.037	0.07	9.6	13.0	0.52	460	0.67	0.01	
FGL068 02+50S		2.01	21.7	1.65	4.60	<0.05	<0.02	0.02	0.021	0.06	6.9	6.7	0.25	272	0.48	0.02	
FGL068 03+00S		2.28	27.9	1.72	4.87	<0.05	<0.02	0.04	0.025	0.06	10.6	7.9	0.28	339	0.38	0.03	
FGL068 03+50S		1.52	23.2	2.51	5.83	<0.05	0.02	0.04	0.028	0.07	10.3	12.4	0.59	520	0.57	0.02	
FGL068 04+00S		1.52	20.5	1.89	4.93	<0.05	<0.02	0.02	0.021	0.06	7.3	7.9	0.33	309	0.39	0.03	
FGL068 04+50S		1.14	19.9	1.73	4.39	<0.05	0.02	0.04	0.018	0.06	8.8	7.1	0.30	319	0.35	0.03	
FGL069 00+00		1.16	17.3	1.90	5.23	<0.05	<0.02	0.02	0.026	0.07	7.5	8.3	0.39	403	0.49	0.02	
FGL069 00+50N		1.31	18.2	2.13	4.98	<0.05	0.03	0.01	0.027	0.06	11.2	9.0	0.52	425	0.44	0.02	
FGL069 01+00N		1.41	23.0	2.09	5.07	<0.05	0.02	0.03	0.029	0.06	11.6	10.4	0.50	313	0.42	0.02	
FGL069 01+50N		1.29	33.1	1.59	3.90	<0.05	0.03	0.05	0.029	0.05	7.6	5.7	0.23	493	0.50	0.03	
FGL069 02+00N		1.99	32.7	1.86	4.80	<0.05	0.03	0.06	0.036	0.06	11.7	8.8	0.36	342	0.39	0.02	
FGL069 02+50N		1.62	19.3	2.03	4.89	<0.05	<0.02	0.03	0.037	0.06	9.4	11.6	0.44	295	0.49	0.02	
FGL069 03+00N		1.69	23.8	1.43	3.92	<0.05	<0.02	0.03	0.030	0.06	9.0	4.7	0.16	189	0.41	0.03	
FGL069 03+50N		2.30	40.4	1.77	4.71	<0.05	<0.02	0.09	0.042	0.06	12.7	6.5	0.25	292	0.48	0.02	
FGL069 04+00N		4.05	78.9	1.91	5.09	<0.05	<0.02	0.06	0.066	0.07	11.6	8.2	0.27	502	0.55	0.02	
FGL069 05+00N		6.00	22.4	2.41	7.55	<0.05	0.02	0.03	0.027	0.08	9.7	11.4	0.31	310	0.66	0.03	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL067 02+50S		0.75	10.8	1070	13.5	6.1	<0.001	0.05	0.39	3.6	0.6	0.3	74.2	<0.01	0.01	1.2	
FGL067 03+00S		0.44	4.3	300	10.4	6.1	<0.001	0.02	0.24	0.8	<0.2	0.2	16.4	<0.01	0.01	<0.2	
FGL067 03+50S		0.85	18.3	820	112.0	14.1	<0.001	0.04	4.11	5.3	0.7	0.5	43.5	<0.01	0.05	0.8	
FGL067 04+00S		0.57	8.7	760	32.1	5.1	<0.001	0.01	0.93	3.2	0.5	0.2	25.6	<0.01	0.02	1.0	
FGL067 04+50S		0.76	17.2	840	34.0	8.7	<0.001	0.03	1.06	4.5	0.9	0.4	46.0	<0.01	0.02	1.1	
FGL067 05+00S		0.92	16.1	530	37.3	11.4	<0.001	0.02	0.79	4.7	0.4	0.4	35.9	<0.01	0.02	1.2	
FGL067 05+50S		0.88	12.9	430	42.5	7.3	<0.001	0.01	1.23	3.5	0.2	0.4	22.4	<0.01	0.02	1.8	
FGL067 06+00S		1.01	15.3	530	78.7	9.7	<0.001	0.01	1.25	4.5	0.4	0.4	31.6	<0.01	0.02	1.9	
FGL067 06+50S		1.17	19.0	280	104.0	9.1	<0.001	0.01	1.45	3.6	0.2	0.5	22.3	<0.01	0.03	2.1	
FGL067 07+00S		1.23	16.6	420	102.0	7.9	<0.001	0.01	1.07	3.3	0.2	0.5	21.4	<0.01	0.03	2.2	
FGL067 07+50S		0.92	10.7	360	61.7	6.8	<0.001	0.01	0.85	2.5	0.2	0.4	26.4	<0.01	0.02	1.2	
FGL068 00+50N		1.02	14.1	570	58.4	7.9	<0.001	0.01	1.45	3.4	0.3	0.4	25.0	<0.01	0.01	2.1	
FGL068 04+00N		0.83	13.4	940	7.4	5.5	<0.001	0.01	0.23	4.2	0.4	0.4	33.7	<0.01	0.02	1.6	
FGL068 04+50N		0.75	12.3	1190	7.0	4.6	<0.001	0.01	0.27	4.1	0.3	0.4	39.6	<0.01	0.01	1.9	
FGL068 05+00N		1.05	26.5	590	14.8	9.3	0.001	0.03	0.37	4.5	0.6	0.6	29.5	<0.01	0.02	1.5	
FGL068 05+50N		1.49	18.9	610	12.4	11.5	<0.001	0.02	0.36	4.1	0.6	0.7	22.5	<0.01	0.03	1.7	
FGL068 06+00N		1.32	22.0	570	11.2	8.9	<0.001	0.01	0.40	4.0	0.4	0.5	20.8	<0.01	0.02	2.0	
FGL068 06+50N		1.28	16.6	450	10.2	9.5	<0.001	0.01	0.35	4.0	0.4	0.5	22.1	<0.01	0.02	1.8	
FGL068 07+00N		1.06	12.7	450	7.8	7.3	<0.001	0.02	0.30	3.4	0.4	0.5	22.7	<0.01	0.01	1.5	
FGL068 07+50N		1.42	19.5	430	8.8	7.4	<0.001	0.02	0.33	5.2	0.9	0.5	20.4	<0.01	0.02	3.7	
FGL068 08+00N		0.96	12.7	490	6.5	6.1	<0.001	0.02	0.23	2.6	0.4	0.4	20.2	<0.01	0.03	0.7	
FGL068 11+00N		0.79	11.9	1070	10.0	5.3	<0.001	0.02	0.69	5.4	0.4	0.5	64.6	<0.01	0.01	4.3	
FGL068 01+00S		0.71	5.3	240	66.5	5.9	<0.001	0.01	0.59	1.3	<0.2	0.3	14.1	<0.01	0.01	0.4	
FGL068 01+50S		0.74	6.5	200	95.9	6.9	<0.001	0.01	0.39	1.5	0.2	0.3	14.6	<0.01	<0.01	0.6	
FGL068 02+00S		1.16	17.2	290	160.0	9.2	<0.001	0.02	0.81	3.2	0.3	0.5	21.7	<0.01	0.02	1.6	
FGL068 02+50S		0.90	8.9	290	91.0	8.4	<0.001	0.02	0.44	2.0	0.2	0.3	18.8	<0.01	0.01	0.7	
FGL068 03+00S		0.65	11.2	520	124.5	8.0	<0.001	0.03	0.48	2.5	0.4	0.3	27.5	<0.01	0.01	0.5	
FGL068 03+50S		1.08	16.9	480	117.0	8.4	<0.001	0.02	0.69	3.4	0.4	0.4	28.0	<0.01	0.02	1.6	
FGL068 04+00S		0.72	10.8	490	64.5	8.6	<0.001	0.03	0.42	2.5	0.4	0.3	26.2	<0.01	0.02	0.8	
FGL068 04+50S		0.63	10.5	550	67.4	6.3	<0.001	0.03	0.39	2.7	0.4	0.3	25.4	<0.01	0.01	0.6	
FGL069 00+00		0.73	11.0	450	48.1	8.0	<0.001	0.03	0.50	2.4	0.2	0.3	37.6	<0.01	0.01	0.5	
FGL069 00+50N		0.89	12.7	660	59.6	6.2	<0.001	0.02	0.70	3.2	<0.2	0.3	30.1	<0.01	0.02	1.6	
FGL069 01+00N		0.83	14.6	570	67.9	6.6	<0.001	0.03	0.61	3.3	0.5	0.3	37.2	<0.01	0.01	1.1	
FGL069 01+50N		0.57	10.2	730	43.6	5.1	<0.001	0.06	0.71	1.9	0.5	0.2	50.9	<0.01	0.02	0.4	
FGL069 02+00N		0.74	13.6	650	81.3	7.0	<0.001	0.04	0.78	3.5	0.9	0.3	38.4	<0.01	0.02	1.0	
FGL069 02+50N		0.95	12.7	270	82.4	6.9	<0.001	0.01	0.66	2.5	<0.2	0.4	22.2	<0.01	0.02	0.9	
FGL069 03+00N		0.59	7.6	290	54.3	6.3	<0.001	0.01	0.41	2.1	0.4	0.3	20.2	<0.01	<0.01	0.6	
FGL069 03+50N		0.84	9.6	230	93.9	8.1	<0.001	0.01	0.75	2.4	0.3	0.3	19.7	<0.01	0.02	1.0	
FGL069 04+00N		0.96	11.0	380	426	11.3	<0.001	0.02	1.07	2.4	0.3	0.4	22.7	<0.01	0.02	0.8	
FGL069 05+00N		1.21	13.8	380	29.6	11.5	<0.001	0.02	0.39	3.5	0.4	0.5	23.1	<0.01	0.02	1.3	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL067 02+50S		0.061	0.06	1.66	49	0.12	8.75	78	1.1
FGL067 03+00S		0.024	0.05	0.28	16	0.08	1.73	46	<0.5
FGL067 03+50S		0.042	0.17	1.01	59	0.15	9.60	340	0.6
FGL067 04+00S		0.061	0.09	0.55	56	0.09	8.60	155	1.2
FGL067 04+50S		0.040	0.09	0.86	46	0.11	23.0	250	1.2
FGL067 05+00S		0.046	0.09	0.58	56	0.14	9.28	257	0.8
FGL067 05+50S		0.063	0.08	0.38	53	0.10	4.26	185	1.0
FGL067 06+00S		0.057	0.08	0.59	60	0.12	7.89	156	1.1
FGL067 06+50S		0.061	0.10	0.38	59	0.20	4.12	117	1.6
FGL067 07+00S		0.067	0.10	0.37	60	0.15	3.78	98	1.8
FGL067 07+50S		0.057	0.07	0.36	48	0.10	4.15	93	0.6
FGL068 00+50N		0.081	0.08	0.39	58	0.14	4.03	95	1.3
FGL068 04+00N		0.072	0.05	0.79	54	0.11	7.40	67	<0.5
FGL068 04+50N		0.082	0.04	0.77	52	0.12	7.49	69	0.6
FGL068 05+00N		0.066	0.12	0.77	61	0.16	13.65	67	0.6
FGL068 05+50N		0.076	0.13	0.64	74	0.20	5.47	64	0.6
FGL068 06+00N		0.065	0.12	0.58	59	0.18	6.33	60	0.8
FGL068 06+50N		0.070	0.10	0.66	63	0.19	8.79	53	0.5
FGL068 07+00N		0.045	0.07	0.45	57	0.15	3.91	58	<0.5
FGL068 07+50N		0.079	0.11	0.91	61	0.19	11.80	52	2.0
FGL068 08+00N		0.057	0.09	0.46	54	0.16	4.28	44	<0.5
FGL068 11+00N		0.066	0.07	1.54	72	0.09	8.89	89	2.1
FGL068 01+00S		0.036	0.07	0.28	27	0.14	2.09	190	<0.5
FGL068 01+50S		0.038	0.08	0.25	32	0.11	1.89	275	0.5
FGL068 02+00S		0.056	0.13	0.41	54	0.16	3.30	396	0.7
FGL068 02+50S		0.046	0.08	0.36	41	0.12	2.89	187	<0.5
FGL068 03+00S		0.040	0.10	0.50	41	0.11	6.21	214	<0.5
FGL068 03+50S		0.073	0.09	0.41	55	0.12	5.07	265	0.9
FGL068 04+00S		0.056	0.08	0.35	48	0.12	4.14	157	0.5
FGL068 04+50S		0.050	0.07	0.33	43	0.09	5.08	119	0.5
FGL069 00+00		0.050	0.07	0.35	44	0.11	3.73	130	<0.5
FGL069 00+50N		0.068	0.08	0.35	49	0.10	5.48	167	1.1
FGL069 01+00N		0.051	0.07	0.46	45	0.15	7.60	164	0.9
FGL069 01+50N		0.033	0.07	0.45	37	0.09	6.33	110	1.1
FGL069 02+00N		0.040	0.08	0.56	41	0.11	11.55	199	1.3
FGL069 02+50N		0.052	0.10	0.36	49	0.12	4.80	190	<0.5
FGL069 03+00N		0.042	0.07	0.38	39	0.10	6.22	135	<0.5
FGL069 03+50N		0.047	0.08	0.41	46	0.12	6.28	235	0.5
FGL069 04+00N		0.045	0.12	0.42	47	0.12	5.14	601	<0.5
FGL069 05+00N		0.054	0.11	0.47	64	0.16	4.39	83	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL069 05+50N		0.40	0.0019	0.04	2.52	11.6	<0.02	<10	200	0.54	0.18	0.20	0.38	20.9	11.1	40
FGL069 06+50N		0.34	0.0029	0.23	1.43	6.7	<0.02	<10	280	0.42	0.13	0.47	0.48	23.0	10.7	28
FGL069 07+50N		0.63	0.0029	0.13	1.95	6.9	<0.02	<10	280	0.52	0.11	0.71	0.34	22.4	12.1	36
FGL069 08+00N		0.38	0.0010	0.04	2.02	6.4	<0.02	<10	190	0.34	0.09	0.53	0.16	16.30	12.9	31
FGL069 08+50N		0.44	0.0012	0.08	1.70	4.7	<0.02	<10	260	0.29	0.11	0.48	0.10	19.60	7.7	37
FGL069 10+50N		0.48	0.0034	0.09	2.27	7.1	<0.02	<10	170	0.48	0.12	0.23	0.14	19.85	8.2	29
FGL069 11+00N		0.50	0.0019	0.07	2.23	9.3	<0.02	<10	290	0.66	0.16	0.40	0.11	31.4	7.9	34
FGL069 11+50N		0.88	0.0030	0.04	1.82	6.4	<0.02	<10	250	0.57	0.11	0.41	0.08	26.2	7.8	26
FGL069 12+00N		0.72	0.0007	0.03	1.04	3.1	<0.02	<10	90	0.26	0.07	0.18	0.07	11.80	3.7	13
FGL069 12+50N		0.69	0.0022	0.02	2.00	7.1	<0.02	<10	260	0.65	0.12	0.46	0.06	28.4	8.5	30
FGL069 13+00N		0.51	0.0014	0.05	1.66	6.4	<0.02	<10	210	0.45	0.11	0.45	0.07	23.2	10.2	23
FGL069 16+00N		0.51	0.0074	0.38	1.91	12.0	<0.02	<10	380	0.87	0.37	0.59	0.25	43.4	8.9	35
FGL069 16+50N		0.60	0.0039	0.17	2.03	11.5	<0.02	<10	370	0.68	0.18	0.58	0.27	31.1	10.5	38
FGL070 00+00		0.64	0.0016	0.03	1.82	9.7	<0.02	<10	540	0.36	0.14	0.22	0.14	18.45	7.8	26
FGL070 00+50N		0.58	0.0019	0.04	2.05	10.4	<0.02	<10	240	0.44	0.14	0.19	0.08	19.60	7.8	30
FGL070 01+00N		0.63	0.0021	0.07	1.96	11.6	<0.02	<10	310	0.42	0.14	0.24	0.09	22.1	7.5	28
FGL070 01+50N		0.62	0.0017	0.04	1.77	8.9	<0.02	<10	400	0.42	0.12	0.30	0.11	22.7	8.3	26
FGL070 04+50N		0.53	0.0069	0.47	1.56	10.8	<0.02	<10	340	0.41	0.45	0.46	0.47	22.7	7.3	30
FGL070 05+50N		0.81	0.0039	0.31	1.68	12.5	<0.02	<10	270	0.39	0.42	0.37	0.50	19.65	7.3	29
FGL070 06+00N		0.71	0.0037	0.15	1.44	14.0	<0.02	<10	280	0.43	0.43	0.43	0.58	23.9	8.8	29
FGL070 07+00N		0.45	0.0050	0.43	1.61	15.3	<0.02	<10	400	0.42	0.43	0.41	0.54	19.45	7.7	28
FGL070 07+50N		0.42	0.0038	0.37	1.48	11.5	<0.02	<10	410	0.41	0.27	0.42	0.48	22.1	7.9	28
FGL070 08+00N		0.32	0.0077	0.95	1.79	18.3	<0.02	<10	640	0.64	0.46	0.46	0.82	30.4	8.0	30
FGL070 09+00N		0.52	0.0036	0.45	1.81	15.9	<0.02	<10	330	0.45	0.49	0.27	1.10	19.50	8.4	30
FGL070 09+50N		0.49	0.0060	1.03	1.96	22.3	<0.02	<10	380	0.56	0.77	0.32	2.49	19.95	9.0	29
FGL070 10+50N		0.60	0.0539	3.44	2.25	130.5	0.02	<10	250	0.56	7.48	0.27	2.32	18.35	10.5	41
FGL070 11+00N		0.66	0.0096	0.65	2.25	23.6	<0.02	<10	220	0.52	0.50	0.29	0.84	21.8	9.0	35
FGL070 11+50N		0.41	0.0020	0.35	2.21	10.1	<0.02	<10	180	0.49	0.23	0.20	0.51	19.70	6.3	30
FGL070 12+00N		0.64	0.0021	0.03	1.58	6.7	<0.02	<10	130	0.33	0.10	0.39	0.12	19.55	8.4	26
FGL070 13+50N		0.66	0.0015	0.05	1.93	6.6	<0.02	<10	130	0.42	0.11	0.28	0.10	18.20	7.2	28
FGL070 14+50N		0.90	0.0024	0.21	1.78	6.0	<0.02	<10	420	0.53	0.10	0.52	0.24	25.7	9.2	28
FGL070 15+50N		0.49	0.0076	0.65	1.80	7.7	0.05	<10	290	0.30	0.11	0.40	0.13	19.70	7.6	21
FGL070 16+00N		0.44	0.0015	0.06	2.88	10.1	<0.02	<10	240	0.83	0.15	0.34	0.06	25.9	8.2	31
FGL070 16+50N		0.46	0.0016	0.06	2.27	8.4	<0.02	<10	230	0.61	0.12	0.31	0.06	21.6	7.6	25
FGL070 17+00N		0.49	0.0155	0.15	2.04	7.6	<0.02	<10	390	0.64	0.12	0.51	0.04	23.9	7.1	23
FGL070 18+00N		0.71	0.0015	0.07	2.67	9.5	<0.02	<10	220	0.68	0.13	0.38	0.11	21.9	10.6	26
FGL070 18+50N		0.45	0.0013	0.06	2.07	7.9	<0.02	<10	130	0.45	0.10	0.23	0.10	17.10	7.7	24
FGL070 19+50N		0.51	0.0025	0.16	2.39	10.1	<0.02	<10	550	0.95	0.14	0.76	0.11	36.2	10.5	38
FGL070 20+00N		0.46	0.0021	0.05	1.59	6.7	<0.02	<10	160	0.34	0.10	0.22	0.06	15.15	5.6	22
FGL070 20+50N		0.42	0.0011	0.05	1.18	7.2	<0.02	<10	110	0.22	0.15	0.20	0.09	18.30	3.9	18

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL069 05+50N		1.61	22.7	3.33	7.08	<0.05	0.04	0.02	0.032	0.07	10.3	19.8	0.59	319	0.89	0.01
FGL069 06+50N		2.00	23.7	2.09	5.13	<0.05	0.02	0.04	0.020	0.04	11.6	12.0	0.47	405	0.63	0.03
FGL069 07+50N		4.59	30.1	2.73	7.31	0.05	0.04	0.03	0.026	0.05	12.3	15.2	0.69	427	0.62	0.02
FGL069 08+00N		2.61	17.8	2.93	8.17	<0.05	0.02	0.01	0.021	0.08	7.3	16.5	0.75	466	0.49	0.02
FGL069 08+50N		1.81	15.3	2.08	5.88	<0.05	<0.02	0.02	0.021	0.05	9.9	12.2	0.61	209	0.45	0.02
FGL069 10+50N		1.13	15.0	2.55	6.81	<0.05	<0.02	0.02	0.023	0.07	9.8	14.9	0.59	303	0.51	0.01
FGL069 11+00N		1.50	21.6	2.66	7.26	<0.05	0.02	0.02	0.024	0.07	16.4	13.8	0.54	304	0.70	0.02
FGL069 11+50N		1.55	18.0	2.48	6.27	0.05	<0.02	0.01	0.019	0.07	15.0	11.9	0.58	378	0.46	0.02
FGL069 12+00N		0.67	17.8	1.22	3.41	<0.05	<0.02	0.01	0.009	0.05	5.5	6.0	0.22	112	0.29	0.03
FGL069 12+50N		1.63	16.3	2.60	6.49	0.05	0.06	0.01	0.024	0.07	15.2	14.4	0.66	276	0.45	0.02
FGL069 13+00N		1.60	14.8	2.35	6.37	0.07	0.05	0.02	0.020	0.06	10.2	16.3	0.61	401	0.70	0.02
FGL069 16+00N		1.69	26.6	2.74	7.26	0.12	0.05	0.03	0.027	0.06	42.3	17.8	0.75	434	1.08	0.02
FGL069 16+50N		1.40	21.2	2.89	7.68	0.08	0.04	0.04	0.027	0.06	20.9	18.5	0.85	609	0.49	0.02
FGL070 00+00		1.56	15.6	2.75	6.50	0.06	0.02	0.01	0.022	0.10	9.1	14.0	0.41	353	0.77	0.02
FGL070 00+50N		1.98	16.0	2.84	7.07	0.06	0.09	0.03	0.023	0.06	10.1	17.1	0.46	207	0.79	0.02
FGL070 01+00N		2.57	15.9	2.61	6.93	0.06	<0.02	0.02	0.024	0.08	11.1	15.7	0.45	294	0.68	0.02
FGL070 01+50N		2.66	11.6	2.58	6.33	0.07	<0.02	0.02	0.029	0.08	10.8	15.0	0.43	328	0.62	0.02
FGL070 04+50N		1.56	34.1	2.25	6.21	0.06	0.05	0.05	0.038	0.06	12.2	12.6	0.60	285	0.39	0.02
FGL070 05+50N		1.89	29.2	2.30	6.14	0.06	0.02	0.03	0.033	0.06	9.8	13.5	0.57	335	0.51	0.02
FGL070 06+00N		1.90	32.3	2.35	6.05	0.07	0.05	0.02	0.033	0.05	11.7	12.6	0.64	461	0.48	0.02
FGL070 07+00N		2.05	42.4	2.33	5.69	0.06	0.03	0.04	0.042	0.06	10.3	12.1	0.54	436	0.48	0.02
FGL070 07+50N		1.62	31.5	2.21	5.37	0.08	0.02	0.02	0.027	0.05	11.6	12.9	0.54	384	0.47	0.02
FGL070 08+00N		2.77	66.1	2.45	6.07	0.09	0.03	0.07	0.038	0.07	19.2	12.9	0.51	537	0.54	0.03
FGL070 09+00N		2.87	47.6	2.50	6.10	0.06	0.02	0.03	0.038	0.08	10.2	14.7	0.59	413	0.55	0.02
FGL070 09+50N		4.35	66.9	2.68	7.33	0.06	<0.02	0.03	0.050	0.11	10.6	14.3	0.51	449	0.74	0.02
FGL070 10+50N		4.69	99.8	3.19	7.22	0.07	0.04	0.10	0.118	0.08	8.7	16.7	0.69	443	0.83	0.02
FGL070 11+00N		3.28	80.3	2.68	6.13	0.07	0.04	0.06	0.050	0.09	9.4	15.4	0.59	319	0.62	0.02
FGL070 11+50N		1.80	21.2	2.81	8.35	0.06	0.02	0.02	0.033	0.05	10.3	15.1	0.38	181	0.99	0.02
FGL070 12+00N		1.87	17.4	2.19	5.20	0.07	0.03	0.01	0.023	0.06	9.2	11.7	0.57	264	0.37	0.02
FGL070 13+50N		1.76	12.5	2.31	5.87	0.06	0.03	0.02	0.023	0.06	9.3	12.8	0.51	222	0.45	0.02
FGL070 14+50N		2.25	17.2	2.65	7.19	0.08	0.04	0.02	0.026	0.06	13.8	14.1	0.66	345	0.47	0.02
FGL070 15+50N		1.42	8.7	2.49	8.24	0.07	<0.02	0.01	0.020	0.07	9.1	15.1	0.65	388	0.46	0.01
FGL070 16+00N		1.53	15.6	2.93	8.58	0.07	0.02	0.02	0.029	0.08	14.3	17.5	0.57	292	0.75	0.02
FGL070 16+50N		1.16	19.0	2.50	7.60	0.06	0.02	0.03	0.030	0.08	9.8	15.4	0.52	298	0.59	0.02
FGL070 17+00N		1.36	14.0	2.36	7.84	0.07	<0.02	0.02	0.026	0.05	11.7	15.2	0.52	366	0.60	0.02
FGL070 18+00N		1.24	14.9	3.11	9.76	0.08	0.02	0.02	0.031	0.07	10.9	20.1	0.68	431	0.64	0.02
FGL070 18+50N		0.99	20.0	2.18	5.88	0.06	0.02	0.03	0.022	0.06	7.9	12.8	0.42	200	0.54	0.02
FGL070 19+50N		1.23	36.4	3.08	7.74	0.10	0.08	0.04	0.031	0.09	22.4	17.6	0.71	480	0.57	0.02
FGL070 20+00N		1.29	13.3	2.01	6.17	0.06	<0.02	0.02	0.018	0.05	8.1	12.6	0.40	176	0.47	0.02
FGL070 20+50N		1.19	10.5	1.78	6.89	0.06	<0.02	0.01	0.017	0.05	9.3	9.4	0.31	136	0.64	0.02

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL069 05+50N		1.73	23.1	460	20.9	10.0	<0.001	0.01	0.50	4.4	0.3	0.6	20.2	0.01	0.03	3.3
FGL069 06+50N		0.83	16.5	770	26.2	5.3	<0.001	0.03	0.82	3.7	0.7	0.3	69.8	<0.01	0.02	1.0
FGL069 07+50N		1.00	19.3	1060	21.8	7.0	<0.001	0.02	0.60	6.3	0.4	0.4	55.7	<0.01	0.02	1.9
FGL069 08+00N		1.22	17.0	1260	13.1	8.0	<0.001	0.02	0.35	3.7	<0.2	0.4	25.0	<0.01	0.02	1.5
FGL069 08+50N		0.93	16.1	680	11.0	5.9	<0.001	0.02	0.30	3.6	0.3	0.4	40.1	<0.01	0.02	1.0
FGL069 10+50N		1.01	15.9	580	9.3	9.2	<0.001	0.02	0.29	2.8	0.3	0.5	19.8	<0.01	0.01	0.6
FGL069 11+00N		1.17	19.9	600	10.6	8.7	<0.001	0.02	0.38	4.8	0.5	0.5	30.5	<0.01	0.02	1.7
FGL069 11+50N		0.85	14.6	600	7.5	6.4	<0.001	0.01	0.43	4.1	0.5	0.4	29.7	<0.01	0.02	1.1
FGL069 12+00N		0.53	7.0	410	3.8	4.0	<0.001	0.01	0.16	1.2	0.3	0.2	16.3	<0.01	0.01	0.2
FGL069 12+50N		1.23	19.9	690	8.0	7.7	<0.001	0.01	0.37	4.5	0.5	0.5	28.7	<0.01	0.02	3.0
FGL069 13+00N		1.04	19.3	820	10.4	6.8	0.001	0.01	0.27	3.9	0.3	0.5	28.2	<0.01	0.02	2.2
FGL069 16+00N		0.97	23.4	730	41.3	7.9	0.001	0.02	1.36	6.3	1.0	0.5	34.3	<0.01	0.06	3.6
FGL069 16+50N		0.85	19.6	860	26.8	8.3	<0.001	0.02	1.39	5.5	0.5	0.5	41.4	<0.01	0.02	3.1
FGL070 00+00		1.21	16.3	290	8.7	11.7	<0.001	0.01	0.39	3.1	0.4	0.5	22.2	<0.01	0.02	1.9
FGL070 00+50N		1.42	17.7	360	8.3	8.8	<0.001	<0.01	0.40	3.8	0.4	0.6	17.2	<0.01	0.02	3.3
FGL070 01+00N		1.39	16.1	490	8.7	10.4	<0.001	0.01	0.41	3.4	0.6	0.5	19.5	<0.01	0.01	1.6
FGL070 01+50N		1.04	16.1	590	7.1	10.6	<0.001	0.01	0.33	3.3	0.3	0.5	25.5	<0.01	0.01	1.2
FGL070 04+50N		0.97	15.0	700	87.0	6.5	<0.001	0.01	1.98	4.5	0.3	0.4	29.5	<0.01	0.02	2.5
FGL070 05+50N		0.99	15.2	530	60.8	7.8	<0.001	0.01	1.69	3.9	0.3	0.4	26.5	<0.01	<0.01	1.6
FGL070 06+00N		0.99	15.5	620	75.3	6.7	<0.001	<0.01	2.17	4.3	0.6	0.4	27.0	<0.01	0.01	2.4
FGL070 07+00N		0.89	15.2	550	67.6	7.3	<0.001	0.01	1.98	4.1	0.3	0.4	29.8	<0.01	0.03	1.7
FGL070 07+50N		1.04	17.0	620	43.9	7.1	<0.001	0.01	1.05	3.8	0.4	0.4	29.4	<0.01	0.02	1.8
FGL070 08+00N		0.87	19.4	600	75.2	8.0	<0.001	0.02	2.14	6.1	0.9	0.4	33.8	<0.01	0.02	1.8
FGL070 09+00N		1.10	19.0	290	91.0	10.5	<0.001	0.01	1.79	4.0	0.3	0.5	21.5	<0.01	0.01	2.2
FGL070 09+50N		1.18	18.7	440	152.5	15.0	<0.001	0.01	2.87	4.0	0.4	0.5	29.4	<0.01	0.02	1.3
FGL070 10+50N		0.95	23.6	310	492	11.3	<0.001	0.02	22.3	5.7	0.6	0.5	23.8	<0.01	0.04	2.7
FGL070 11+00N		1.14	23.2	520	100.5	10.2	<0.001	0.01	2.32	5.0	0.5	0.5	22.8	<0.01	0.01	3.1
FGL070 11+50N		1.76	14.0	360	40.2	9.7	<0.001	0.01	0.44	3.8	0.5	0.7	18.8	<0.01	0.03	1.8
FGL070 12+00N		1.10	16.7	800	18.9	7.1	<0.001	0.01	0.42	3.4	0.4	0.4	21.2	<0.01	0.01	2.2
FGL070 13+50N		1.24	14.9	570	11.4	8.0	<0.001	0.01	0.33	3.7	0.4	0.4	17.8	<0.01	0.01	2.2
FGL070 14+50N		0.96	15.0	890	12.4	7.2	<0.001	0.01	0.53	4.9	0.5	0.4	37.4	<0.01	0.02	2.4
FGL070 15+50N		0.91	12.2	490	12.5	7.4	<0.001	0.01	0.24	3.3	0.2	0.5	34.2	<0.01	0.02	2.1
FGL070 16+00N		1.55	19.3	520	10.6	9.1	<0.001	0.01	0.30	4.6	0.5	0.6	28.9	<0.01	0.02	2.1
FGL070 16+50N		1.12	19.2	520	8.7	9.1	<0.001	0.01	0.31	3.7	0.4	0.5	25.7	<0.01	0.02	1.8
FGL070 17+00N		1.14	12.8	520	8.4	7.5	<0.001	0.01	0.23	3.5	0.3	0.5	43.7	<0.01	0.06	2.1
FGL070 18+00N		1.38	18.4	790	9.1	8.7	<0.001	0.01	0.32	4.2	0.4	0.6	29.2	<0.01	0.01	1.5
FGL070 18+50N		1.20	16.4	530	7.0	7.3	<0.001	0.01	0.30	3.2	0.4	0.4	19.5	<0.01	0.02	1.4
FGL070 19+50N		1.14	23.2	880	8.9	9.4	<0.001	0.02	0.41	7.1	1.1	0.6	64.0	<0.01	0.02	3.0
FGL070 20+00N		0.89	12.7	290	5.5	7.0	<0.001	0.01	0.18	2.8	0.3	0.4	19.6	<0.01	0.02	0.7
FGL070 20+50N		1.23	8.7	230	10.2	7.9	<0.001	<0.01	0.25	2.1	0.3	0.6	17.6	<0.01	0.01	1.2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL069 05+50N		0.100	0.11	0.56	73	0.22	3.61	90	2.1
FGL069 06+50N		0.076	0.09	1.19	56	0.14	7.43	105	0.7
FGL069 07+50N		0.123	0.11	0.70	74	0.15	8.70	104	1.6
FGL069 08+00N		0.158	0.06	0.34	78	0.12	3.93	71	1.0
FGL069 08+50N		0.090	0.07	0.49	55	0.23	4.62	53	0.6
FGL069 10+50N		0.070	0.09	0.50	59	0.15	3.80	57	<0.5
FGL069 11+00N		0.073	0.12	0.82	65	0.17	8.94	60	0.6
FGL069 11+50N		0.070	0.07	0.65	57	0.13	8.60	58	<0.5
FGL069 12+00N		0.044	0.05	0.30	31	0.09	2.32	27	<0.5
FGL069 12+50N		0.085	0.11	0.60	61	0.16	6.64	58	2.0
FGL069 13+00N		0.067	0.09	0.59	51	0.12	5.44	53	1.3
FGL069 16+00N		0.050	0.09	0.89	55	0.97	18.20	130	1.3
FGL069 16+50N		0.047	0.08	0.98	58	0.19	12.20	118	1.1
FGL070 00+00		0.056	0.09	0.32	59	0.15	2.70	65	0.7
FGL070 00+50N		0.081	0.10	0.47	63	0.17	3.62	49	4.0
FGL070 01+00N		0.064	0.12	0.41	59	0.17	4.07	52	0.5
FGL070 01+50N		0.051	0.10	0.41	52	0.17	4.45	59	<0.5
FGL070 04+50N		0.087	0.10	0.52	53	0.16	6.52	210	2.0
FGL070 05+50N		0.067	0.13	0.42	52	0.15	4.44	185	0.8
FGL070 06+00N		0.090	0.12	0.43	53	0.15	5.66	221	2.1
FGL070 07+00N		0.061	0.12	0.50	51	0.11	5.88	206	0.9
FGL070 07+50N		0.070	0.11	0.52	51	0.13	6.47	137	0.9
FGL070 08+00N		0.054	0.15	0.81	53	0.15	16.45	222	0.9
FGL070 09+00N		0.065	0.15	0.43	57	0.12	4.04	293	1.0
FGL070 09+50N		0.061	0.18	0.50	61	0.16	4.56	485	0.6
FGL070 10+50N		0.089	0.37	0.44	69	0.17	3.84	547	1.7
FGL070 11+00N		0.079	0.24	0.57	60	0.17	4.44	320	1.6
FGL070 11+50N		0.089	0.12	0.53	76	0.22	4.34	65	0.9
FGL070 12+00N		0.098	0.08	0.40	56	0.13	4.58	52	1.3
FGL070 13+50N		0.089	0.10	0.48	56	0.17	4.21	51	1.0
FGL070 14+50N		0.073	0.08	0.79	56	0.13	8.12	77	1.5
FGL070 15+50N		0.045	0.06	0.37	56	0.14	3.99	74	0.6
FGL070 16+00N		0.082	0.13	0.58	70	0.23	6.26	52	0.6
FGL070 16+50N		0.044	0.10	0.53	56	0.23	5.04	49	0.5
FGL070 17+00N		0.046	0.09	0.83	58	0.18	5.40	48	0.5
FGL070 18+00N		0.109	0.08	0.61	72	0.27	4.95	63	0.7
FGL070 18+50N		0.067	0.08	0.51	49	0.22	3.42	39	0.6
FGL070 19+50N		0.065	0.09	4.59	63	0.18	19.10	65	2.2
FGL070 20+00N		0.058	0.06	0.35	48	0.13	3.96	35	<0.5
FGL070 20+50N		0.066	0.08	0.34	56	0.17	2.36	30	<0.5

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL070 21+00N		0.48	0.0025	0.14	2.20	9.7	<0.02	<10	230	0.52	0.15	0.41	0.08	20.4	8.0	32
FGL070 22+00N		0.30	0.0010	0.09	1.98	11.1	<0.02	<10	280	0.55	0.18	0.38	0.19	22.8	8.1	29
FGL070 22+50N		0.36	0.0039	0.11	1.84	8.6	<0.02	<10	420	0.70	0.26	0.44	0.23	33.9	8.9	29
FGL070 23+00N		0.42	0.0026	0.11	1.94	9.6	<0.02	<10	300	0.58	0.17	0.43	0.09	32.4	8.8	30

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL070 21+00N		1.82	17.8	2.92	8.04	0.07	0.02	0.02	0.028	0.07	10.3	18.5	0.58	254	0.68	0.02
FGL070 22+00N		1.66	20.7	2.76	8.10	0.06	<0.02	0.03	0.028	0.06	11.6	17.0	0.48	354	0.76	0.02
FGL070 22+50N		1.70	20.8	2.52	5.62	0.08	0.02	0.02	0.023	0.07	17.9	14.8	0.56	389	0.44	0.02
FGL070 23+00N		1.35	20.8	2.55	6.23	0.07	0.02	0.02	0.023	0.06	17.3	14.2	0.57	376	0.64	0.02

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CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL070 21+00N		1.46	17.4	440	10.6	9.0	<0.001	0.01	0.34	4.1	0.4	0.6	31.7	<0.01	0.02	2.0
FGL070 22+00N		1.20	14.5	540	10.8	6.6	<0.001	0.01	0.41	3.2	0.5	0.5	30.8	<0.01	0.02	1.1
FGL070 22+50N		0.99	21.0	750	13.1	8.5	<0.001	0.01	0.55	3.9	0.5	0.4	29.6	<0.01	0.03	2.4
FGL070 23+00N		1.16	19.4	840	12.4	8.5	<0.001	0.01	0.46	4.4	0.7	0.5	29.5	<0.01	0.02	2.3

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Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL070 21+00N		0.072	0.11	0.54	68	0.17	4.09	50	0.8
FGL070 22+00N		0.056	0.11	0.70	72	0.20	5.12	60	<0.5
FGL070 22+50N		0.055	0.09	0.75	48	0.16	9.35	66	0.5
FGL070 23+00N		0.062	0.11	1.16	55	0.21	8.78	65	0.8

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Project: Freegold Mtd - Tinta Property

CERTIFICATE OF ANALYSIS WH17164274

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
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VANCOUVER BC V6E 3V6

CERTIFICATE WH17164282

Project: Freegold Mtn - Tinta Property

P.O. No.: 1005139- NOFREG- R1

This report is for 156 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL071 01+00S		0.51	0.0011	0.06	2.39	6.6	<0.02	<10	260	0.67	0.14	0.21	0.05	31.9	8.1	33
FGL071 01+50S		0.38	0.0006	0.05	1.21	12.7	<0.02	<10	100	0.40	0.13	0.22	0.15	18.50	7.6	24
FGL071 02+00S		0.40	0.0026	0.07	2.59	11.3	<0.02	<10	260	0.95	0.14	0.28	0.10	28.8	9.1	37
FGL071 02+50S		0.44	0.0012	0.15	2.06	8.1	<0.02	<10	310	0.64	0.17	0.28	0.10	22.9	9.4	30
FGL071 03+00S		0.54	0.0008	0.05	2.08	7.6	<0.02	<10	240	0.44	0.11	0.30	0.08	19.55	8.4	26
FGL071 03+50S		0.45	0.0008	0.06	1.18	4.2	<0.02	<10	120	0.31	0.07	0.24	0.04	15.45	5.3	17
FGL071 04+00S		0.49	0.0014	0.05	1.73	5.5	<0.02	<10	240	0.63	0.09	0.50	0.06	26.7	8.1	26
FGL071 04+50S		0.39	0.0025	0.05	2.75	13.7	<0.02	<10	170	0.69	0.16	0.43	0.10	27.7	8.8	23
FGL071 05+00S		0.40	0.0026	0.04	2.60	9.4	<0.02	<10	160	0.52	0.12	0.26	0.09	17.90	10.2	29
FGL071 05+50S		0.35	0.0040	0.02	2.17	7.7	<0.02	<10	150	0.53	0.10	0.22	0.09	21.0	9.5	27
FGL071 06+00S		0.40	0.0022	0.03	2.12	8.9	<0.02	<10	140	0.47	0.13	0.23	0.09	18.00	7.9	28
FGL071 06+50S		0.48	0.0014	0.04	2.48	8.5	<0.02	<10	190	0.67	0.11	0.21	0.11	20.5	9.9	28
FGL071 07+00S		0.48	0.0061	0.05	2.50	8.4	<0.02	<10	240	0.61	0.11	0.28	0.14	21.9	9.9	29
FGL071 08+00S		0.39	0.0047	0.08	0.83	2.4	<0.02	<10	90	0.16	0.07	0.14	0.07	9.03	2.8	11
FGL071 08+50S		0.46	0.0073	0.05	1.72	7.7	<0.02	<10	190	0.41	0.12	0.31	0.11	22.1	8.6	27
FGL071 09+00S		0.35	0.0023	0.04	1.13	4.9	<0.02	<10	120	0.30	0.08	0.22	0.09	15.20	5.7	17
FGL071 09+50S		0.39	0.0011	0.10	1.77	6.4	<0.02	<10	220	0.50	0.12	0.24	0.11	18.00	7.3	21
FGL071 10+00S		0.41	0.0019	0.04	2.12	9.7	<0.02	<10	150	0.41	0.14	0.28	0.15	16.10	8.5	30
FGL071 10+50S		0.35	0.0015	0.14	1.78	9.1	<0.02	<10	140	0.38	0.13	0.19	0.31	16.10	7.7	31
FGL071 11+50S		0.44	0.0021	0.46	1.39	6.8	<0.02	<10	160	0.35	0.10	0.18	0.29	15.60	7.9	21
FGL071 12+00S		0.48	0.0034	0.78	2.16	13.3	<0.02	<10	160	0.43	0.11	0.25	1.07	15.70	11.3	37
FGL071 12+50S		0.35	0.0345	0.78	1.53	11.4	<0.02	<10	160	0.39	0.11	0.22	1.68	15.60	6.5	26
FGL071 13+00S		0.44	0.0060	1.19	1.86	13.2	<0.02	<10	200	0.41	0.19	0.21	1.47	20.0	7.1	31
FGL071 13+50S		0.42	0.0070	1.05	1.39	9.4	0.09	<10	500	0.42	0.20	0.28	1.39	21.1	7.3	24
FGL071 14+00S		0.41	0.0060	2.03	1.83	12.5	<0.02	<10	830	0.58	0.29	0.57	1.82	25.3	8.3	30
FGL071 14+50S		0.36	0.0087	1.36	1.52	11.4	<0.02	<10	500	0.53	0.60	0.49	2.80	25.5	8.2	26
FGL071 15+00S		0.47	0.0105	1.20	1.62	10.5	<0.02	<10	420	0.47	0.26	0.60	1.85	23.9	7.7	28
FGL071 15+50S		0.60	0.0059	0.71	1.50	9.0	<0.02	<10	330	0.42	0.22	0.54	1.39	21.6	6.8	27
FGL071 16+00S		0.42	0.0043	0.69	1.66	10.1	<0.02	<10	310	0.42	0.21	0.54	0.84	18.85	7.3	26
FGL071 16+50S		0.56	0.0026	0.20	1.42	6.6	<0.02	<10	230	0.37	0.13	0.41	0.36	20.4	7.3	25
FGL071 17+00S		0.73	0.0036	0.26	1.54	7.2	<0.02	<10	310	0.41	0.13	0.47	0.28	22.3	7.0	27
FGL071 20+00S		0.28	0.0009	0.09	1.32	3.6	<0.02	<10	510	0.40	0.08	0.33	0.08	23.4	3.6	13
FGL071 20+50S		0.47	0.0012	0.03	1.33	5.5	<0.02	<10	230	0.30	0.09	0.20	0.05	15.40	4.9	19
FGL071 21+00S		0.42	0.0009	0.03	2.08	10.9	<0.02	<10	240	0.40	0.14	0.20	0.10	19.55	9.4	30
FGL071 21+50S		0.30	0.0012	0.05	1.53	6.6	<0.02	<10	180	0.34	0.11	0.17	0.07	18.25	6.2	21
FGL071 22+00S		0.45	0.0011	0.05	2.11	10.0	<0.02	<10	310	0.41	0.17	0.19	0.21	17.75	8.7	30
FGL071 22+50S		0.66	0.0195	0.03	1.57	8.4	<0.02	<10	690	0.41	0.11	0.28	0.06	20.3	7.5	27
FGL072 00+00		0.60	0.0026	0.45	1.22	5.1	<0.02	<10	540	0.34	0.08	0.43	0.46	15.20	6.9	17
FGL072 00+50N		0.35	0.0062	2.41	1.17	6.5	<0.02	<10	530	0.39	0.08	0.60	0.71	14.40	5.4	14
FGL072 01+00N		0.47	0.0036	2.62	0.74	3.5	<0.02	<10	190	0.21	0.05	0.12	1.02	8.66	4.3	9

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL071 01+00S		1.37	10.7	2.72	7.79	0.06	0.05	0.01	0.027	0.06	17.8	14.5	0.56	318	0.59	0.02	
FGL071 01+50S		1.49	16.3	2.26	4.30	0.05	<0.02	0.03	0.020	0.06	8.4	9.2	0.31	415	0.54	0.03	
FGL071 02+00S		1.19	29.0	2.83	6.56	0.07	0.05	0.02	0.027	0.07	12.2	14.7	0.61	295	0.64	0.02	
FGL071 02+50S		1.28	22.6	2.77	7.52	0.07	<0.02	0.08	0.027	0.06	12.1	14.8	0.46	722	0.97	0.01	
FGL071 03+00S		0.99	19.9	2.64	6.65	0.05	0.03	0.01	0.024	0.07	8.9	16.1	0.58	278	0.63	0.02	
FGL071 03+50S		0.70	14.6	1.65	4.08	0.06	<0.02	0.01	0.013	0.05	8.2	6.5	0.27	175	0.35	0.02	
FGL071 04+00S		0.79	14.9	2.31	5.98	0.08	0.04	0.02	0.020	0.05	14.2	12.5	0.67	418	0.34	0.02	
FGL071 04+50S		1.65	11.9	3.42	8.35	0.08	0.06	0.01	0.032	0.08	12.2	17.2	0.47	363	1.04	0.01	
FGL071 05+00S		1.18	16.8	2.83	7.36	0.07	0.05	0.02	0.030	0.06	8.8	15.4	0.59	289	0.67	0.01	
FGL071 05+50S		0.89	14.9	2.40	5.77	0.07	0.02	0.02	0.027	0.06	10.2	13.4	0.50	271	0.57	0.02	
FGL071 06+00S		1.27	17.3	2.54	6.17	0.06	0.02	0.02	0.025	0.07	8.6	15.1	0.46	237	0.63	0.02	
FGL071 06+50S		1.59	20.6	2.48	5.83	0.07	0.04	0.02	0.026	0.08	9.6	14.8	0.49	287	0.49	0.01	
FGL071 07+00S		3.82	17.8	2.73	6.98	0.07	0.05	0.01	0.029	0.12	10.1	14.5	0.56	325	0.56	0.02	
FGL071 08+00S		0.97	10.6	1.05	3.42	0.06	<0.02	0.03	0.009	0.04	4.6	4.3	0.17	81	0.35	0.02	
FGL071 08+50S		1.44	15.0	2.26	5.81	0.07	0.03	0.02	0.022	0.06	11.1	13.3	0.53	296	0.55	0.01	
FGL071 09+00S		1.06	14.0	1.52	3.90	0.07	<0.02	0.02	0.014	0.05	7.4	8.2	0.33	217	0.37	0.02	
FGL071 09+50S		2.41	15.8	1.96	6.11	0.08	<0.02	0.02	0.019	0.06	8.5	11.3	0.39	242	0.59	0.02	
FGL071 10+00S		1.23	20.2	2.76	7.26	0.06	0.04	0.02	0.023	0.09	7.4	15.3	0.48	260	0.69	0.02	
FGL071 10+50S		1.98	15.4	2.47	6.35	0.07	0.04	0.01	0.024	0.06	7.5	13.8	0.44	223	0.62	0.02	
FGL071 11+50S		4.22	19.7	1.90	5.32	0.06	0.02	0.03	0.019	0.04	8.3	8.5	0.30	464	0.67	0.03	
FGL071 12+00S		4.12	20.5	2.97	7.51	0.06	0.04	0.03	0.028	0.06	7.3	15.8	0.73	421	0.71	0.02	
FGL071 12+50S		3.44	17.0	2.13	5.28	0.06	0.02	0.03	0.029	0.07	7.8	11.4	0.47	280	0.59	0.02	
FGL071 13+00S		3.06	19.2	2.48	6.82	0.08	0.07	0.03	0.037	0.09	10.3	14.4	0.51	268	0.86	0.01	
FGL071 13+50S		2.70	23.2	1.88	4.86	0.07	0.02	0.14	0.036	0.06	11.9	9.0	0.36	366	0.66	0.02	
FGL071 14+00S		2.33	39.8	2.32	6.32	0.07	0.03	0.07	0.056	0.06	13.7	12.6	0.49	346	0.63	0.02	
FGL071 14+50S		1.92	34.4	2.11	4.85	0.07	0.04	0.09	0.048	0.06	13.5	9.0	0.42	414	0.69	0.02	
FGL071 15+00S		1.95	31.4	2.20	5.71	0.08	0.04	0.05	0.066	0.06	12.9	11.2	0.56	348	0.47	0.02	
FGL071 15+50S		1.59	26.4	1.98	5.30	0.07	0.03	0.04	0.054	0.06	10.3	10.6	0.52	298	0.49	0.02	
FGL071 16+00S		1.80	24.3	2.26	6.09	0.07	0.02	0.03	0.045	0.06	9.7	11.5	0.51	359	0.55	0.02	
FGL071 16+50S		1.31	16.0	2.13	5.66	0.07	0.05	0.01	0.026	0.05	11.0	10.4	0.55	319	0.40	0.02	
FGL071 17+00S		1.34	19.7	2.16	6.01	0.08	0.05	0.03	0.028	0.06	12.5	10.4	0.56	279	0.42	0.02	
FGL071 20+00S		2.68	13.9	1.20	4.60	0.08	<0.02	0.03	0.017	0.06	12.3	6.2	0.20	124	0.38	0.03	
FGL071 20+50S		1.54	11.4	1.75	4.66	0.06	<0.02	0.01	0.016	0.05	7.9	8.5	0.28	161	0.60	0.02	
FGL071 21+00S		1.86	15.8	2.76	5.78	0.07	0.03	0.01	0.025	0.07	10.0	15.7	0.46	289	1.12	0.02	
FGL071 21+50S		1.53	13.6	2.03	6.31	0.06	<0.02	0.01	0.018	0.05	9.3	9.0	0.33	192	0.57	0.02	
FGL071 22+00S		1.75	14.1	3.03	7.65	0.07	0.08	0.01	0.030	0.07	9.1	15.6	0.48	296	0.88	0.02	
FGL071 22+50S		2.52	12.9	2.23	5.53	0.06	0.02	0.01	0.022	0.06	10.7	13.1	0.46	260	0.73	0.02	
FGL072 00+00		2.14	19.0	1.84	4.80	0.06	<0.02	0.04	0.018	0.05	8.0	5.9	0.24	268	0.53	0.03	
FGL072 00+50N		1.79	22.3	1.74	4.78	0.07	0.03	0.05	0.020	0.04	7.6	5.0	0.20	279	0.46	0.03	
FGL072 01+00N		1.67	15.4	1.04	3.19	0.06	<0.02	0.03	0.010	0.04	4.9	3.8	0.15	205	0.31	0.02	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL071 01+00S		1.29	15.4	210	8.6	7.6	<0.001	<0.01	0.28	4.3	0.4	0.6	18.9	<0.01	0.02	3.4	
FGL071 01+50S		0.42	14.8	590	22.4	7.0	<0.001	0.01	0.70	2.0	0.4	0.3	20.0	<0.01	0.02	0.5	
FGL071 02+00S		1.70	21.0	380	8.9	8.2	<0.001	0.01	0.35	4.6	0.7	0.5	21.4	<0.01	0.03	3.4	
FGL071 02+50S		1.16	14.2	460	7.5	8.5	<0.001	0.01	0.27	3.1	0.5	0.6	23.8	<0.01	0.04	0.6	
FGL071 03+00S		1.28	17.0	320	7.3	7.9	<0.001	<0.01	0.29	3.6	0.4	0.5	26.7	<0.01	0.04	1.9	
FGL071 03+50S		0.66	10.7	520	4.6	5.3	<0.001	<0.01	0.25	2.3	0.4	0.3	17.1	<0.01	0.02	0.7	
FGL071 04+00S		1.06	14.7	730	6.7	5.6	<0.001	0.01	0.26	4.6	0.7	0.4	37.5	<0.01	0.02	1.9	
FGL071 04+50S		1.20	11.5	690	8.0	13.7	<0.001	0.01	0.29	3.9	0.3	0.6	28.4	<0.01	0.03	2.9	
FGL071 05+00S		1.64	20.1	500	9.1	8.0	<0.001	0.01	0.36	4.3	0.6	0.5	29.6	<0.01	0.03	2.3	
FGL071 05+50S		1.27	18.1	450	9.2	7.1	<0.001	0.01	0.29	3.9	0.6	0.5	21.0	<0.01	0.02	1.7	
FGL071 06+00S		1.55	16.4	490	9.9	8.1	<0.001	0.01	0.30	3.2	0.4	0.5	20.2	<0.01	0.03	1.4	
FGL071 06+50S		1.43	19.2	610	9.3	9.6	<0.001	0.01	0.34	4.0	0.4	0.4	16.5	<0.01	0.03	2.2	
FGL071 07+00S		1.27	20.4	600	24.7	11.4	<0.001	0.01	0.50	4.7	0.7	0.5	22.7	<0.01	0.02	3.2	
FGL071 08+00S		0.30	5.6	390	4.4	5.4	<0.001	0.02	0.16	0.8	0.2	0.3	14.0	<0.01	0.01	<0.2	
FGL071 08+50S		1.35	15.5	740	10.4	8.8	<0.001	0.01	0.28	3.5	0.4	0.5	19.7	<0.01	0.02	1.9	
FGL071 09+00S		0.74	11.4	540	6.8	6.0	<0.001	0.01	0.23	1.9	0.4	0.3	18.1	<0.01	0.01	0.5	
FGL071 09+50S		0.98	13.3	570	8.7	9.0	<0.001	0.02	0.25	2.2	0.6	0.4	19.6	<0.01	0.02	0.3	
FGL071 10+00S		1.59	17.6	380	11.3	8.2	<0.001	0.02	0.38	3.3	0.4	0.6	25.3	<0.01	0.02	1.7	
FGL071 10+50S		1.38	14.9	380	12.8	9.1	<0.001	<0.01	0.39	3.3	0.3	0.5	16.4	<0.01	0.02	2.1	
FGL071 11+50S		1.07	10.2	260	43.8	7.5	<0.001	0.01	0.48	3.2	0.6	0.4	17.3	<0.01	0.01	1.0	
FGL071 12+00S		1.25	20.3	320	68.2	10.3	<0.001	<0.01	0.98	4.7	0.4	0.5	20.3	<0.01	0.03	2.0	
FGL071 12+50S		1.08	14.5	390	315	10.7	<0.001	0.01	1.41	3.2	0.3	0.4	17.7	<0.01	0.02	1.2	
FGL071 13+00S		1.40	17.1	390	257	11.6	<0.001	<0.01	1.46	4.2	0.6	0.6	17.7	<0.01	0.03	2.6	
FGL071 13+50S		0.97	13.8	390	212	6.8	<0.001	<0.01	1.18	3.7	0.5	0.4	24.6	<0.01	0.02	1.6	
FGL071 14+00S		1.08	17.7	650	233	6.7	<0.001	0.02	1.51	4.8	1.0	0.5	59.1	<0.01	0.03	1.2	
FGL071 14+50S		0.88	16.4	660	270	6.5	<0.001	0.03	1.94	4.0	0.9	0.3	48.2	<0.01	0.01	1.2	
FGL071 15+00S		1.04	16.3	640	283	7.5	<0.001	0.02	1.91	4.4	0.7	0.4	59.1	<0.01	0.02	1.7	
FGL071 15+50S		0.98	15.1	590	245	6.9	<0.001	0.02	1.55	3.7	0.4	0.4	51.4	<0.01	0.03	1.3	
FGL071 16+00S		1.07	14.2	500	167.5	7.8	<0.001	0.01	1.21	3.8	0.4	0.4	50.3	<0.01	0.03	1.5	
FGL071 16+50S		1.00	12.6	610	81.0	6.0	<0.001	<0.01	0.91	3.8	0.3	0.4	29.6	<0.01	0.01	2.1	
FGL071 17+00S		1.05	13.9	610	74.1	6.5	<0.001	0.01	0.90	4.8	0.4	0.4	35.1	<0.01	0.02	2.2	
FGL071 20+00S		0.47	8.3	430	4.2	8.1	<0.001	0.02	0.21	1.6	0.4	0.3	29.5	<0.01	0.02	<0.2	
FGL071 20+50S		0.94	9.8	370	4.9	6.7	<0.001	0.01	0.24	2.3	0.2	0.4	18.2	<0.01	0.01	0.9	
FGL071 21+00S		1.78	17.3	580	7.3	8.9	<0.001	0.01	0.40	3.6	0.6	0.5	16.6	<0.01	0.03	2.6	
FGL071 21+50S		1.07	11.7	300	6.1	6.8	<0.001	0.01	0.28	2.6	0.3	0.5	17.5	<0.01	0.02	0.9	
FGL071 22+00S		1.31	17.2	350	9.0	10.5	<0.001	<0.01	0.37	3.7	0.2	0.7	20.8	<0.01	0.03	2.7	
FGL071 22+50S		1.26	17.0	190	8.1	10.3	<0.001	<0.01	0.32	3.6	0.3	0.5	28.4	<0.01	0.03	2.3	
FGL072 00+00		0.67	9.6	450	49.8	6.0	<0.001	0.01	0.62	2.6	0.3	0.3	38.7	<0.01	0.02	0.7	
FGL072 00+50N		0.66	9.2	650	95.4	4.2	<0.001	0.03	1.34	2.4	0.6	0.3	52.5	<0.01	0.01	0.4	
FGL072 01+00N		0.50	5.5	210	83.9	5.0	<0.001	0.01	0.91	1.8	0.3	0.2	12.9	<0.01	<0.01	0.5	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL071 01+00S		0.058	0.11	0.52	64	0.16	6.02	46	1.9
FGL071 01+50S		0.025	0.06	0.43	37	0.13	2.76	81	<0.5
FGL071 02+00S		0.081	0.12	0.69	64	0.24	5.42	52	1.7
FGL071 02+50S		0.060	0.10	0.60	68	0.20	5.84	44	<0.5
FGL071 03+00S		0.058	0.07	0.43	57	0.14	4.73	50	1.2
FGL071 03+50S		0.056	0.06	0.35	44	0.10	4.81	31	<0.5
FGL071 04+00S		0.075	0.06	1.24	51	0.18	9.76	52	1.4
FGL071 04+50S		0.022	0.12	0.80	56	0.17	3.97	68	2.6
FGL071 05+00S		0.079	0.11	0.56	61	0.20	3.66	51	1.7
FGL071 05+50S		0.072	0.08	0.62	52	0.16	5.84	45	0.9
FGL071 06+00S		0.083	0.09	0.51	58	0.22	3.30	44	0.7
FGL071 06+50S		0.057	0.10	0.52	52	0.19	4.12	51	1.1
FGL071 07+00S		0.048	0.13	0.52	55	0.16	5.69	67	1.8
FGL071 08+00S		0.034	0.06	0.29	28	0.08	1.76	23	<0.5
FGL071 08+50S		0.073	0.10	0.56	54	0.16	4.81	52	0.9
FGL071 09+00S		0.052	0.06	0.38	38	0.17	3.18	35	<0.5
FGL071 09+50S		0.058	0.10	0.43	50	0.15	4.10	42	<0.5
FGL071 10+00S		0.106	0.09	0.37	73	0.19	2.86	51	1.5
FGL071 10+50S		0.089	0.10	0.38	63	0.17	2.74	54	1.7
FGL071 11+50S		0.064	0.12	0.42	52	0.14	4.44	63	0.9
FGL071 12+00S		0.097	0.14	0.40	74	0.17	3.43	153	1.4
FGL071 12+50S		0.063	0.16	0.36	53	0.37	3.20	474	0.6
FGL071 13+00S		0.074	0.14	0.41	60	0.15	4.32	354	2.6
FGL071 13+50S		0.049	0.10	0.49	46	0.13	6.80	233	0.7
FGL071 14+00S		0.047	0.11	0.78	55	0.17	11.00	324	0.9
FGL071 14+50S		0.052	0.09	0.58	47	0.12	11.10	301	1.3
FGL071 15+00S		0.061	0.11	0.53	50	0.11	7.89	368	1.4
FGL071 15+50S		0.055	0.09	0.49	45	0.18	5.99	269	1.0
FGL071 16+00S		0.061	0.10	0.49	53	0.15	4.85	220	0.9
FGL071 16+50S		0.086	0.08	0.40	51	0.10	4.93	152	2.0
FGL071 17+00S		0.088	0.08	0.50	50	0.11	8.11	148	2.2
FGL071 20+00S		0.027	0.08	0.36	24	0.13	6.38	28	<0.5
FGL071 20+50S		0.054	0.07	0.35	43	0.13	3.11	32	<0.5
FGL071 21+00S		0.077	0.10	0.46	58	0.32	3.79	53	1.3
FGL071 21+50S		0.066	0.09	0.34	51	0.11	2.77	35	0.5
FGL071 22+00S		0.090	0.13	0.41	71	0.17	2.80	81	3.8
FGL071 22+50S		0.066	0.10	0.42	50	0.16	3.88	47	0.9
FGL072 00+00		0.050	0.07	0.48	52	0.10	4.82	91	0.5
FGL072 00+50N		0.056	0.07	0.57	50	0.10	5.58	115	1.0
FGL072 01+00N		0.039	0.04	0.26	29	0.08	3.59	130	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
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VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL072 01+50N		0.65	0.0294	10.05	1.77	18.2	0.02	<10	610	0.74	0.11	0.49	10.50	29.4	7.1	28
FGL072 03+00N		0.61	0.0016	0.10	1.94	9.7	<0.02	<10	240	0.45	0.15	0.20	0.14	19.55	7.7	30
FGL072 03+50N		0.39	0.0008	0.09	1.16	5.1	<0.02	<10	130	0.26	0.10	0.14	0.09	13.20	4.9	18
FGL072 04+00N		0.54	0.0006	0.04	1.85	8.3	<0.02	<10	200	0.37	0.15	0.18	0.09	16.05	6.7	23
FGL072 04+50N		0.87	0.0004	0.05	1.65	8.4	<0.02	<10	200	0.31	0.13	0.17	0.15	15.95	6.8	24
FGL072 05+00N		0.57	0.0013	0.05	1.04	6.3	<0.02	<10	100	0.23	0.12	0.17	0.07	11.90	4.5	15
FGL072 05+50N		0.33	0.0009	0.07	0.84	3.0	<0.02	<10	80	0.21	0.07	0.12	0.07	9.07	3.8	12
FGL072 06+00N		0.37	0.0012	0.05	1.76	8.3	<0.02	<10	140	0.42	0.13	0.20	0.08	19.40	6.4	25
FGL072 06+50N		0.40	0.0013	0.07	1.86	8.4	<0.02	<10	120	0.42	0.14	0.20	0.08	21.9	5.9	24
FGL072 07+00N		0.34	0.0027	0.13	1.32	6.7	<0.02	<10	190	0.43	0.09	0.29	0.21	23.5	7.5	22
FGL072 07+50N		0.40	0.0014	0.08	2.32	10.4	<0.02	<10	200	0.54	0.15	0.26	0.18	18.45	7.9	28
FGL072 08+00N		0.33	0.0021	0.05	2.68	11.9	<0.02	<10	200	0.54	0.15	0.22	0.12	19.60	10.2	32
FGL072 08+50N		0.32	0.0014	0.07	2.34	10.1	<0.02	<10	140	0.54	0.14	0.18	0.15	17.55	8.5	27
FGL072 09+00N		0.48	0.0016	0.08	2.46	9.6	<0.02	<10	190	0.53	0.11	0.29	0.08	21.1	8.0	26
FGL072 09+50N		0.37	0.0012	0.07	1.91	6.9	<0.02	<10	150	0.51	0.13	0.17	0.07	19.55	6.7	23
FGL072 10+00N		0.49	0.0016	0.03	2.16	7.4	<0.02	<10	210	0.50	0.09	0.28	0.05	21.0	8.3	27
FGL072 10+50N		0.41	0.0006	0.05	1.98	6.1	<0.02	<10	170	0.47	0.11	0.22	0.06	19.65	7.6	23
FGL072 11+00N		0.42	0.0008	0.04	1.76	6.7	<0.02	<10	170	0.47	0.08	0.24	0.05	20.2	7.2	21
FGL072 11+50N		0.42	0.0028	0.06	2.16	9.8	<0.02	<10	170	0.54	0.14	0.19	0.06	27.6	8.6	33
FGL072 12+00N		0.38	0.0124	0.04	2.64	10.3	<0.02	<10	170	0.58	0.13	0.22	0.10	19.60	10.0	32
FGL072 12+50N		0.45	0.0010	0.04	2.15	9.3	<0.02	<10	160	0.46	0.12	0.26	0.08	16.00	9.2	34
FGL072 13+50N		0.32	0.0002	0.06	0.56	1.5	<0.02	<10	80	0.23	0.05	0.30	0.06	14.50	2.3	7
FGL072 14+00N		0.41	0.0013	0.02	1.87	9.4	<0.02	<10	140	0.35	0.12	0.21	0.08	18.55	7.0	26
FGL072 14+50N		0.42	0.0019	0.04	1.02	4.9	<0.02	<10	170	0.32	0.07	0.22	0.03	16.40	4.5	16
FGL072 00+50S		0.49	0.0126	0.66	1.49	8.9	<0.02	<10	520	0.41	0.09	0.57	0.94	20.5	8.3	29
FGL072 01+50S		0.66	0.0037	0.42	1.46	7.9	<0.02	<10	340	0.43	0.07	0.42	0.42	18.00	7.7	26
FGL072 02+00S		0.62	0.0101	0.36	1.80	7.4	<0.02	<10	380	0.45	0.07	0.65	0.67	20.1	9.3	35
FGL072 02+50S		0.84	0.0084	0.71	1.77	8.9	<0.02	<10	520	0.55	0.08	0.61	1.12	25.5	8.1	37
FGL072 04+00S		0.52	0.0036	0.04	1.41	4.1	<0.02	<10	210	0.30	0.08	0.30	0.07	16.85	6.5	19
FGL072 04+50S		0.57	0.0009	0.04	1.59	15.4	<0.02	<10	550	0.42	0.09	0.30	0.10	25.0	7.6	21
FGL072 05+00S		0.74	0.0011	0.03	1.53	6.0	<0.02	<10	210	0.37	0.09	0.24	0.08	18.45	6.5	21
FGL072 05+50S		0.69	0.0017	0.03	1.95	8.9	<0.02	<10	400	0.44	0.10	0.21	0.15	24.0	8.1	25
FGL072 06+00S		0.59	0.0010	0.04	2.24	8.9	<0.02	<10	290	0.52	0.13	0.23	0.08	22.1	8.3	30
FGL072 06+50S		0.75	0.0048	0.03	1.93	8.6	<0.02	<10	560	0.39	0.13	0.22	0.10	21.1	6.4	23
FGL072 07+00S		0.75	0.0036	0.02	1.99	9.2	<0.02	<10	490	0.67	0.12	0.17	0.06	38.1	7.7	26
FGL072 07+50S		0.73	0.0015	0.06	1.50	6.9	<0.02	<10	340	0.39	0.11	0.33	0.04	25.4	7.4	26
FGL072 08+00S		1.04	0.0033	0.02	1.75	9.9	<0.02	<10	460	0.38	0.12	0.27	0.10	20.5	7.7	26
FGL072 08+50S		0.71	0.0061	0.05	1.72	7.6	<0.02	<10	830	0.54	0.10	0.31	0.06	25.4	7.1	24
FGL073 00+00		0.69	0.0025	0.04	1.31	5.6	<0.02	<10	460	0.37	0.07	0.32	0.08	22.2	6.4	17
FGL073 00+50N		0.61	0.0006	0.05	1.66	8.3	<0.02	<10	230	0.34	0.15	0.17	0.10	17.45	9.0	26

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL072 01+50N		5.29	52.9	2.35	6.37	0.11	0.03	0.13	0.033	0.09	29.4	12.1	0.49	456	0.81	0.02
FGL072 03+00N		1.30	11.7	2.59	7.54	0.06	0.05	0.01	0.024	0.08	10.2	15.5	0.51	276	0.75	0.02
FGL072 03+50N		1.03	15.3	1.76	5.14	0.06	0.02	0.01	0.014	0.06	6.7	7.9	0.29	143	0.46	0.02
FGL072 04+00N		1.32	25.8	2.46	8.36	0.07	0.03	0.01	0.019	0.06	7.9	13.2	0.43	198	0.78	0.01
FGL072 04+50N		2.54	14.2	2.42	7.32	0.05	<0.02	0.01	0.019	0.07	7.8	15.2	0.42	357	0.72	0.01
FGL072 05+00N		1.24	13.6	1.63	5.35	0.06	<0.02	0.01	0.013	0.04	5.9	7.4	0.20	165	0.57	0.02
FGL072 05+50N		0.65	12.9	1.25	3.56	0.06	<0.02	0.01	0.010	0.04	4.9	4.7	0.19	116	0.36	0.02
FGL072 06+00N		1.16	15.1	2.07	6.02	0.06	0.02	0.02	0.020	0.05	10.0	11.6	0.42	186	0.58	0.01
FGL072 06+50N		1.62	14.8	2.23	6.84	0.07	0.02	0.02	0.021	0.05	12.7	12.8	0.37	161	0.61	0.01
FGL072 07+00N		1.99	13.5	2.02	4.39	0.07	<0.02	0.02	0.018	0.06	11.7	9.1	0.42	297	0.37	0.02
FGL072 07+50N		4.30	23.4	2.99	7.37	0.07	0.03	0.02	0.028	0.09	9.0	18.9	0.50	301	0.70	0.02
FGL072 08+00N		1.63	19.1	3.40	8.56	0.07	0.04	0.02	0.031	0.08	9.3	21.8	0.58	299	0.79	0.01
FGL072 08+50N		1.95	18.8	2.82	7.82	0.07	0.04	0.03	0.025	0.07	8.6	18.3	0.45	229	0.73	0.01
FGL072 09+00N		1.35	12.4	2.76	7.82	0.07	0.02	0.02	0.024	0.07	9.8	15.5	0.56	348	0.51	0.02
FGL072 09+50N		1.13	17.5	2.29	7.67	0.07	<0.02	0.02	0.021	0.04	9.0	10.9	0.38	260	0.70	0.02
FGL072 10+00N		1.21	16.5	2.52	6.76	0.06	<0.02	0.02	0.023	0.06	9.2	13.6	0.60	293	0.45	0.01
FGL072 10+50N		1.88	15.4	2.34	7.03	0.06	0.02	0.01	0.019	0.06	9.2	12.2	0.50	383	0.56	0.02
FGL072 11+00N		1.55	15.8	2.09	5.60	0.06	<0.02	0.01	0.019	0.06	9.3	10.3	0.48	313	0.40	0.02
FGL072 11+50N		1.11	17.9	2.54	6.52	0.08	0.06	0.02	0.024	0.06	14.5	14.1	0.54	248	0.66	0.02
FGL072 12+00N		1.11	14.0	2.52	6.07	0.06	0.08	0.01	0.026	0.07	9.8	16.0	0.53	278	0.57	0.02
FGL072 12+50N		1.05	19.4	2.86	8.04	0.07	0.08	0.01	0.023	0.08	7.9	15.2	0.69	327	0.61	0.02
FGL072 13+50N		0.63	10.1	0.85	2.78	0.05	<0.02	0.02	0.006	0.04	7.5	2.2	0.09	102	0.22	0.03
FGL072 14+00N		1.40	17.5	2.61	6.81	0.06	<0.02	0.02	0.022	0.07	8.5	12.7	0.46	235	0.72	0.02
FGL072 14+50N		1.36	7.6	1.52	4.32	0.06	<0.02	0.01	0.014	0.05	11.4	7.6	0.30	202	0.35	0.02
FGL072 00+50S		2.22	19.5	2.22	5.67	0.07	0.04	0.03	0.021	0.06	10.7	11.0	0.60	349	0.51	0.02
FGL072 01+50S		1.71	15.4	2.20	5.72	0.07	0.03	0.03	0.021	0.05	9.3	10.5	0.56	361	0.42	0.02
FGL072 02+00S		2.00	19.0	2.51	7.36	0.08	0.04	0.02	0.025	0.07	10.0	11.0	0.72	343	0.35	0.02
FGL072 02+50S		1.81	24.6	2.65	7.38	0.10	0.07	0.05	0.026	0.06	15.3	12.7	0.75	243	0.39	0.02
FGL072 04+00S		1.49	10.1	1.95	6.00	0.07	<0.02	0.01	0.019	0.06	8.7	9.3	0.38	314	0.39	0.02
FGL072 04+50S		2.33	12.3	2.35	6.41	0.07	<0.02	0.01	0.021	0.06	12.9	11.0	0.39	369	0.55	0.01
FGL072 05+00S		1.73	12.9	1.95	5.33	0.06	0.02	0.01	0.020	0.07	9.6	9.9	0.42	231	0.40	0.02
FGL072 05+50S		2.15	12.8	2.42	5.28	0.06	<0.02	0.02	0.025	0.08	9.2	11.7	0.46	330	0.50	0.02
FGL072 06+00S		2.16	18.5	2.59	6.58	0.07	0.02	0.02	0.024	0.07	10.2	13.9	0.45	268	0.69	0.02
FGL072 06+50S		2.06	13.5	2.41	7.15	0.07	<0.02	0.01	0.022	0.11	10.8	13.9	0.39	283	0.62	0.02
FGL072 07+00S		2.01	13.7	2.23	6.12	0.10	0.03	0.02	0.026	0.07	24.0	13.0	0.48	228	0.62	0.01
FGL072 07+50S		0.98	13.5	2.13	5.20	0.10	0.03	0.02	0.022	0.04	13.9	12.9	0.50	243	0.46	0.02
FGL072 08+00S		1.90	15.9	2.39	6.00	0.10	0.02	0.01	0.024	0.07	10.6	13.3	0.52	287	0.57	0.02
FGL072 08+50S		2.91	11.6	2.30	6.06	0.09	0.02	0.01	0.026	0.09	15.2	12.8	0.45	310	0.64	0.02
FGL073 00+00		2.25	8.6	2.18	5.91	0.09	<0.02	0.01	0.019	0.07	11.6	10.6	0.47	355	0.41	0.02
FGL073 00+50N		1.45	11.7	2.48	6.53	0.10	0.03	0.01	0.021	0.08	8.7	12.9	0.45	437	0.71	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL072 01+50N		1.04	16.9	500	1335	12.7	<0.001	0.01	6.06	7.0	1.2	0.4	28.8	<0.01	0.01	1.9
FGL072 03+00N		1.35	16.4	230	18.0	13.6	<0.001	<0.01	0.37	3.8	0.4	0.6	19.6	<0.01	0.01	2.4
FGL072 03+50N		1.16	10.0	230	8.0	7.5	<0.001	<0.01	0.24	2.2	0.3	0.4	13.9	<0.01	0.01	1.3
FGL072 04+00N		1.59	14.7	210	9.8	9.2	<0.001	0.01	0.35	3.1	0.3	0.6	21.2	<0.01	0.02	1.7
FGL072 04+50N		1.36	13.0	250	8.4	10.5	<0.001	<0.01	0.41	3.0	<0.2	0.5	19.2	<0.01	0.02	1.4
FGL072 05+00N		0.96	7.9	330	6.1	8.2	<0.001	0.01	0.29	1.7	0.4	0.4	15.9	<0.01	0.01	0.4
FGL072 05+50N		0.33	7.2	350	3.8	4.6	<0.001	0.01	0.16	0.8	0.3	0.2	12.3	<0.01	<0.01	<0.2
FGL072 06+00N		1.29	13.7	540	9.1	8.8	<0.001	0.01	0.26	3.4	0.5	0.5	14.1	<0.01	0.01	2.0
FGL072 06+50N		1.39	13.4	410	8.3	7.4	<0.001	0.01	0.32	3.7	0.5	0.5	16.6	<0.01	0.02	1.7
FGL072 07+00N		0.75	14.9	570	15.9	6.1	<0.001	<0.01	0.49	3.3	0.4	0.3	22.2	<0.01	0.01	1.1
FGL072 07+50N		1.51	18.3	460	11.7	10.1	<0.001	0.01	0.37	3.9	0.4	0.5	25.2	<0.01	0.03	2.3
FGL072 08+00N		1.89	20.2	510	12.6	8.8	<0.001	0.01	0.35	4.1	0.5	0.6	24.2	<0.01	0.02	2.5
FGL072 08+50N		1.84	16.4	430	11.1	10.7	<0.001	0.01	0.33	3.3	0.4	0.6	18.8	<0.01	0.02	2.3
FGL072 09+00N		1.26	14.6	560	8.6	9.0	<0.001	0.01	0.24	3.8	0.4	0.5	26.1	<0.01	0.01	2.2
FGL072 09+50N		1.18	11.8	430	8.6	9.1	<0.001	0.01	0.27	3.1	0.3	0.6	16.9	<0.01	0.02	0.8
FGL072 10+00N		0.91	16.1	440	7.1	6.8	<0.001	<0.01	0.28	3.6	0.3	0.4	24.9	<0.01	0.01	1.3
FGL072 10+50N		1.12	12.0	440	7.1	9.0	<0.001	0.01	0.27	3.2	0.3	0.4	20.3	<0.01	0.01	1.5
FGL072 11+00N		0.90	12.5	460	6.4	6.8	<0.001	0.01	0.31	3.1	0.4	0.4	19.7	<0.01	0.01	1.5
FGL072 11+50N		1.42	18.7	320	8.6	8.0	<0.001	0.01	0.33	4.9	0.5	0.6	16.6	<0.01	0.02	3.7
FGL072 12+00N		1.52	19.7	550	8.0	8.3	<0.001	0.01	0.37	4.7	0.4	0.5	15.8	0.01	0.03	3.4
FGL072 12+50N		1.22	17.2	550	6.8	10.3	<0.001	0.01	0.29	4.0	0.4	0.6	20.4	<0.01	0.01	2.1
FGL072 13+50N		0.13	3.4	440	2.5	3.6	<0.001	0.02	0.09	0.4	0.2	0.2	19.8	<0.01	<0.01	<0.2
FGL072 14+00N		1.23	15.2	310	7.1	8.3	<0.001	0.01	1.14	3.0	0.3	0.5	18.3	<0.01	0.02	1.3
FGL072 14+50N		0.47	7.3	380	5.6	4.8	<0.001	0.01	0.19	1.8	0.4	0.3	17.0	<0.01	<0.01	0.2
FGL072 00+50S		1.02	16.5	580	149.5	6.5	<0.001	0.02	1.28	4.3	0.6	0.4	39.4	<0.01	0.01	1.7
FGL072 01+50S		0.83	12.6	550	99.9	5.7	<0.001	0.01	0.84	3.7	0.3	0.4	27.5	<0.01	0.01	1.6
FGL072 02+00S		0.97	14.1	880	106.5	6.9	<0.001	0.01	1.19	4.7	0.6	0.4	35.8	<0.01	<0.01	1.7
FGL072 02+50S		1.05	15.8	750	142.0	6.2	<0.001	0.01	1.54	6.2	0.8	0.4	35.1	<0.01	0.01	2.4
FGL072 04+00S		0.71	9.8	700	5.6	9.5	<0.001	0.01	0.25	2.3	0.4	0.4	22.2	<0.01	0.01	0.5
FGL072 04+50S		0.97	11.7	590	7.6	10.2	<0.001	0.01	0.31	3.1	0.3	0.4	25.6	<0.01	0.01	1.4
FGL072 05+00S		1.05	12.0	520	5.6	8.6	<0.001	0.01	0.30	2.6	0.4	0.4	18.5	<0.01	0.01	1.4
FGL072 05+50S		1.00	17.3	480	8.6	9.2	<0.001	0.01	0.34	2.9	0.2	0.4	18.5	<0.01	0.01	1.3
FGL072 06+00S		1.41	17.2	390	7.2	9.3	<0.001	0.01	0.34	3.9	0.5	0.5	22.1	<0.01	0.01	2.2
FGL072 06+50S		1.33	14.4	280	11.0	11.1	<0.001	0.01	0.34	2.9	0.3	0.5	21.9	<0.01	0.01	1.8
FGL072 07+00S		1.08	20.9	190	8.3	8.1	<0.001	0.01	0.37	4.0	0.7	0.5	16.9	<0.01	0.04	3.1
FGL072 07+50S		1.04	15.9	490	6.0	5.1	<0.001	<0.01	0.27	3.7	0.6	0.4	23.6	<0.01	0.03	2.8
FGL072 08+00S		0.96	19.5	280	8.2	8.0	<0.001	0.01	0.41	3.8	0.4	0.5	27.2	<0.01	0.03	1.9
FGL072 08+50S		0.98	15.7	280	7.0	8.7	<0.001	0.01	0.42	4.1	0.5	0.4	30.9	<0.01	0.03	2.1
FGL073 00+00		0.76	10.3	390	5.5	7.4	<0.001	0.01	0.93	3.1	0.4	0.4	27.5	<0.01	0.02	1.7
FGL073 00+50N		1.28	14.8	400	6.7	11.2	<0.001	0.01	0.35	3.0	0.3	0.5	17.6	<0.01	0.04	2.0

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL072 01+50N		0.047	0.15	0.73	50	0.18	19.25	1140	1.2
FGL072 03+00N		0.096	0.10	0.45	67	0.24	3.59	59	2.0
FGL072 03+50N		0.077	0.06	0.38	50	0.15	2.24	35	0.9
FGL072 04+00N		0.079	0.08	0.40	63	0.20	2.55	44	1.3
FGL072 04+50N		0.056	0.10	0.35	57	0.21	2.62	50	0.5
FGL072 05+00N		0.059	0.06	0.31	46	0.18	1.99	28	<0.5
FGL072 05+50N		0.042	0.05	0.35	34	0.09	1.76	23	<0.5
FGL072 06+00N		0.069	0.10	0.59	50	0.23	3.71	41	0.9
FGL072 06+50N		0.073	0.09	0.57	55	0.19	5.57	37	0.7
FGL072 07+00N		0.060	0.08	0.49	44	0.13	5.55	65	<0.5
FGL072 07+50N		0.073	0.11	0.48	61	0.20	3.66	56	1.3
FGL072 08+00N		0.082	0.10	0.52	70	0.26	3.53	58	1.8
FGL072 08+50N		0.078	0.09	0.48	63	0.22	3.12	44	1.5
FGL072 09+00N		0.060	0.08	0.55	61	0.20	3.90	57	0.8
FGL072 09+50N		0.065	0.09	0.52	61	0.17	4.33	39	<0.5
FGL072 10+00N		0.057	0.07	0.53	55	0.14	4.41	50	0.5
FGL072 10+50N		0.055	0.09	0.48	52	0.15	3.99	46	0.6
FGL072 11+00N		0.053	0.07	0.48	47	0.14	4.07	43	0.5
FGL072 11+50N		0.086	0.10	0.79	58	0.25	5.98	46	2.4
FGL072 12+00N		0.077	0.09	0.54	55	0.21	4.83	45	3.2
FGL072 12+50N		0.082	0.08	0.42	65	0.15	3.43	51	2.9
FGL072 13+50N		0.026	0.03	0.28	25	0.06	3.43	18	<0.5
FGL072 14+00N		0.056	0.08	0.40	57	0.19	3.14	43	0.6
FGL072 14+50N		0.036	0.05	0.36	37	0.14	5.13	31	<0.5
FGL072 00+50S		0.069	0.08	0.49	52	0.15	6.84	234	1.4
FGL072 01+50S		0.065	0.07	0.40	52	0.13	3.95	160	0.9
FGL072 02+00S		0.113	0.09	0.39	63	0.13	5.02	241	1.8
FGL072 02+50S		0.114	0.08	0.59	66	0.14	11.90	259	2.6
FGL072 04+00S		0.064	0.07	0.36	46	0.10	3.67	61	<0.5
FGL072 04+50S		0.053	0.10	0.39	50	0.13	5.06	70	0.5
FGL072 05+00S		0.061	0.08	0.40	44	0.38	3.51	47	0.6
FGL072 05+50S		0.043	0.09	0.36	47	0.14	3.67	61	0.5
FGL072 06+00S		0.071	0.10	0.50	58	0.18	3.80	48	1.0
FGL072 06+50S		0.054	0.09	0.35	55	0.15	2.85	51	0.7
FGL072 07+00S		0.059	0.08	0.50	48	0.18	6.13	46	1.1
FGL072 07+50S		0.068	0.07	0.56	50	0.15	6.25	43	1.2
FGL072 08+00S		0.057	0.09	0.36	52	0.14	3.57	57	0.9
FGL072 08+50S		0.040	0.10	0.41	46	0.14	6.75	55	0.5
FGL073 00+00		0.050	0.07	0.31	44	0.09	4.11	63	0.5
FGL073 00+50N		0.078	0.09	0.33	60	0.35	2.51	68	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL073 01+00N		0.69	0.0009	0.02	1.91	8.6	<0.02	<10	260	0.40	0.12	0.18	0.07	22.4	7.9	27
FGL073 01+50N		0.66	0.0008	0.03	1.51	6.4	<0.02	<10	240	0.35	0.09	0.25	0.06	18.65	7.0	24
FGL073 02+00N		0.85	0.0023	0.03	1.15	6.7	<0.02	<10	690	0.45	0.06	0.33	0.05	28.3	6.9	19
FGL073 02+50N		0.60	0.0010	0.02	0.89	4.4	<0.02	<10	290	0.25	0.07	0.17	0.10	18.00	4.6	11
FGL073 03+50N		0.78	0.0016	0.03	1.52	5.8	<0.02	<10	320	0.41	0.09	0.26	0.05	23.6	6.6	24
FGL073 04+00N		0.66	0.0009	0.05	1.41	7.4	<0.02	<10	170	0.25	0.12	0.15	0.09	15.90	5.3	21
FGL073 04+50N		0.67	0.0010	0.06	1.83	6.9	<0.02	<10	420	0.46	0.11	0.31	0.10	23.6	7.2	25
FGL073 06+50N		0.74	0.0020	0.25	1.47	7.1	<0.02	<10	290	0.32	0.07	0.55	0.38	17.80	7.4	30
FGL073 7+50N		0.59	0.0049	0.89	1.81	11.9	<0.02	<10	460	0.50	0.12	0.45	0.52	19.30	8.3	27
FGL073 08+50N		0.45	0.0038	0.92	1.29	7.7	<0.02	<10	410	0.33	0.08	0.46	0.38	20.9	6.3	21
FGL073 09+00N		0.61	0.0018	0.09	1.23	7.8	<0.02	<10	310	0.25	0.08	0.34	0.12	16.70	5.7	21
FGL073 09+50N		0.58	0.0042	0.29	1.39	10.1	<0.02	<10	940	0.40	0.11	0.64	0.40	20.6	7.6	25
FGL073 10+00N		0.56	0.0035	0.19	1.45	11.1	<0.02	<10	630	0.45	0.09	0.39	0.86	18.30	6.3	23
FGL073 10+50N		0.71	0.0017	0.09	1.69	6.7	<0.02	<10	250	0.46	0.09	0.32	0.28	21.8	7.3	23
FGL073 11+00N		0.65	0.0012	0.07	1.78	7.1	<0.02	<10	530	0.47	0.14	0.25	0.11	23.3	9.0	27
FGL073 11+50N		0.65	0.0014	0.04	1.74	8.4	<0.02	<10	260	0.40	0.13	0.20	0.08	19.50	8.2	27
FGL073 12+00N		0.54	0.0022	0.03	1.77	6.7	<0.02	<10	130	0.34	0.12	0.15	0.07	16.50	6.1	24
FGL073 12+50N		0.65	0.0009	0.02	1.92	8.5	<0.02	<10	180	0.42	0.10	0.19	0.08	17.90	7.6	24
FGL073 13+00N		0.49	0.0015	0.05	1.82	6.0	<0.02	<10	260	0.45	0.11	0.22	0.10	17.70	8.0	22
FGL073 13+50N		0.42	0.0024	0.03	1.79	6.5	<0.02	<10	160	0.41	0.08	0.32	0.13	22.5	9.6	26
FGL073 14+00N		0.27	0.0007	0.20	1.60	5.6	<0.02	<10	220	0.45	0.10	0.23	0.13	18.40	5.7	18
FGL073 14+50N		0.51	0.0140	0.10	2.25	9.4	<0.02	<10	150	0.55	0.16	0.20	0.11	21.0	8.4	32
FGL073 15+00N		0.66	0.0017	0.09	1.91	8.1	<0.02	<10	150	0.41	0.14	0.19	0.12	23.9	7.0	27
FGL073 15+50N		0.56	0.0040	0.47	1.85	8.5	<0.02	<10	220	0.46	0.14	0.23	0.28	24.4	6.5	29
FGL073 16+00N		0.81	0.0026	0.09	1.84	8.8	<0.02	<10	190	0.49	0.11	0.34	0.22	29.1	8.9	27
FGL073 16+50N		0.63	0.0008	0.02	1.48	5.9	<0.02	<10	150	0.28	0.09	0.21	0.09	23.3	6.5	20
FGL073 17+50N		0.68	0.0009	0.05	2.65	8.7	<0.02	<10	200	0.59	0.12	0.37	0.09	27.2	8.5	25
FGL073 18+00N		0.63	0.0034	0.03	2.45	9.2	<0.02	<10	190	0.57	0.11	0.24	0.09	24.1	9.4	28
FGL073 18+50N		0.55	0.0018	0.08	2.37	8.1	<0.02	<10	170	0.44	0.14	0.22	0.09	21.4	8.2	31
FGL073 19+00N		0.59	0.0020	0.08	2.26	9.2	<0.02	<10	200	0.48	0.14	0.28	0.10	21.7	8.0	28
FGL073 19+50N		0.62	0.0010	0.03	2.29	8.2	<0.02	<10	290	0.51	0.12	0.33	0.08	21.8	8.9	27
FGL073 20+00N		0.81	0.0138	0.03	2.26	7.4	<0.02	<10	270	0.53	0.11	0.30	0.05	25.3	9.0	24
FGL073 20+50N		0.77	0.0013	0.05	2.08	7.9	<0.02	<10	280	0.46	0.13	0.32	0.09	23.7	8.6	31
FGL073 21+00N		0.72	0.0022	0.05	2.64	11.7	<0.02	<10	200	0.68	0.16	0.28	0.08	30.4	9.5	40
FGL073 21+50N		0.71	0.0026	0.05	1.97	19.0	<0.02	<10	170	1.24	0.11	0.20	0.08	52.7	16.3	44
FGL073 22+00N		0.59	0.0016	0.03	2.09	18.7	<0.02	<10	170	0.38	0.12	0.26	0.08	24.5	9.4	30
FGL073 22+50N		0.70	0.0014	0.04	2.12	11.7	<0.02	<10	230	0.61	0.15	0.29	0.06	34.2	10.2	31
FGL073 23+00N		0.62	0.0014	0.03	2.06	9.6	<0.02	<10	140	0.43	0.15	0.23	0.06	26.9	8.4	28
FGL074 00+50N		0.86	0.0005	0.02	2.07	11.3	<0.02	<10	220	0.31	0.12	0.24	0.09	20.8	9.9	25
FGL074 01+00N		0.82	0.0004	0.02	1.40	7.8	<0.02	<10	330	0.32	0.13	0.18	0.05	20.1	6.0	20

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL073 01+00N		1.65	14.9	2.44	6.18	0.10	0.03	0.01	0.022	0.07	9.9	13.3	0.48	261	0.62	0.02
FGL073 01+50N		1.14	13.9	2.05	4.89	0.10	<0.02	0.01	0.018	0.07	9.5	11.5	0.46	242	0.41	0.02
FGL073 02+00N		2.29	8.9	2.20	4.19	0.10	0.02	0.02	0.021	0.07	17.1	8.5	0.36	402	0.36	0.02
FGL073 02+50N		1.81	18.0	1.55	3.60	0.08	<0.02	0.01	0.015	0.06	8.2	6.8	0.18	321	0.41	0.02
FGL073 03+50N		1.27	12.8	2.08	4.70	0.10	0.03	0.01	0.019	0.06	13.3	11.5	0.46	250	0.40	0.02
FGL073 04+00N		1.09	8.1	1.99	6.29	0.09	<0.02	0.02	0.018	0.05	8.3	11.1	0.36	182	0.49	0.01
FGL073 04+50N		2.40	15.8	2.30	6.53	0.10	<0.02	0.02	0.025	0.07	12.8	12.7	0.46	302	0.53	0.02
FGL073 06+50N		1.23	12.9	2.18	5.93	0.10	0.06	0.02	0.021	0.05	9.9	10.8	0.64	235	0.22	0.02
FGL073 7+50N		1.84	19.4	2.52	6.55	0.10	0.02	0.04	0.026	0.07	11.3	12.2	0.51	384	0.54	0.02
FGL073 08+50N		1.47	11.1	2.04	4.59	0.09	0.03	0.03	0.022	0.06	10.9	10.9	0.51	303	0.40	0.02
FGL073 09+00N		1.15	8.6	1.83	4.79	0.09	0.04	0.01	0.017	0.06	8.7	12.2	0.48	230	0.39	0.01
FGL073 09+50N		1.26	17.6	2.11	4.74	0.09	0.04	0.03	0.023	0.06	10.8	11.4	0.48	322	0.45	0.02
FGL073 10+00N		2.36	15.5	1.94	4.57	0.10	0.04	0.02	0.021	0.07	12.1	10.0	0.43	433	0.41	0.02
FGL073 10+50N		1.90	12.6	2.14	5.75	0.09	0.03	0.02	0.019	0.07	10.2	10.9	0.46	287	0.50	0.02
FGL073 11+00N		1.46	16.1	2.46	6.56	0.10	0.03	0.02	0.024	0.10	14.0	12.1	0.47	735	0.64	0.02
FGL073 11+50N		0.92	14.2	2.50	6.39	0.10	0.04	0.01	0.020	0.07	9.1	12.9	0.48	357	0.67	0.02
FGL073 12+00N		0.81	11.4	2.36	7.39	0.10	0.08	0.02	0.020	0.07	8.7	12.3	0.46	205	0.64	0.02
FGL073 12+50N		0.92	11.1	2.47	6.63	0.10	0.07	0.02	0.021	0.08	9.3	13.4	0.53	221	0.50	0.01
FGL073 13+00N		1.59	18.9	2.38	7.84	0.09	0.03	0.02	0.020	0.09	9.2	12.7	0.46	343	0.64	0.02
FGL073 13+50N		1.74	11.5	2.52	6.26	0.09	0.06	0.01	0.020	0.05	9.7	14.6	0.70	343	0.39	0.02
FGL073 14+00N		1.48	17.4	1.76	5.57	0.09	<0.02	0.03	0.018	0.06	9.5	8.9	0.26	267	0.59	0.02
FGL073 14+50N		1.35	18.0	2.67	6.50	0.09	0.04	0.03	0.025	0.06	10.9	15.4	0.57	286	0.74	0.02
FGL073 15+00N		1.52	12.2	2.23	6.13	0.10	0.03	0.02	0.021	0.06	11.9	13.7	0.45	282	0.65	0.02
FGL073 15+50N		3.20	14.9	2.44	5.89	0.09	0.03	0.02	0.025	0.07	13.0	12.9	0.45	280	0.65	0.02
FGL073 16+00N		3.15	17.0	2.35	5.36	0.10	0.04	0.01	0.023	0.06	12.2	12.9	0.54	338	0.49	0.02
FGL073 16+50N		1.61	7.1	2.22	6.54	0.09	0.03	0.01	0.017	0.05	12.1	15.1	0.50	309	0.50	0.01
FGL073 17+50N		1.37	11.0	2.81	8.76	0.09	0.02	0.02	0.026	0.06	15.6	19.1	0.60	347	0.62	0.02
FGL073 18+00N		1.31	17.2	2.70	7.01	0.10	0.03	0.02	0.029	0.06	11.1	16.5	0.58	319	0.53	0.02
FGL073 18+50N		1.34	13.7	2.86	8.02	0.10	0.04	0.02	0.025	0.06	10.0	17.6	0.59	336	0.64	0.01
FGL073 19+00N		1.31	16.6	2.65	7.53	0.10	0.04	0.02	0.023	0.06	11.4	16.0	0.57	301	0.58	0.02
FGL073 19+50N		1.83	16.0	2.70	8.11	<0.05	0.02	0.01	0.021	0.07	11.3	14.8	0.64	504	0.61	0.02
FGL073 20+00N		2.22	11.6	2.75	8.04	<0.05	0.03	0.01	0.030	0.06	12.6	15.0	0.66	439	0.50	0.02
FGL073 20+50N		1.81	17.6	2.43	6.82	<0.05	0.02	0.02	0.022	0.07	9.8	12.9	0.53	371	0.55	0.02
FGL073 21+00N		1.59	22.3	2.87	8.12	<0.05	0.09	0.02	0.029	0.07	11.6	15.2	0.63	290	0.69	0.02
FGL073 21+50N		3.60	15.4	4.46	6.68	0.05	0.04	0.05	0.042	0.08	22.8	8.9	0.41	626	0.47	0.01
FGL073 22+00N		1.39	17.9	3.07	7.75	<0.05	0.02	0.02	0.025	0.07	10.1	21.0	0.59	337	0.65	0.02
FGL073 22+50N		1.21	17.2	2.58	6.22	<0.05	0.05	0.03	0.028	0.07	17.8	13.3	0.58	375	0.60	0.02
FGL073 23+00N		1.58	16.5	2.38	6.59	<0.05	0.04	0.02	0.025	0.06	11.3	13.7	0.50	249	0.57	0.01
FGL074 00+50N		1.77	12.2	3.24	10.50	<0.05	0.05	0.01	0.030	0.10	10.3	15.8	0.68	429	0.70	0.01
FGL074 01+00N		1.48	9.0	1.96	6.97	<0.05	0.02	0.01	0.018	0.07	11.3	10.7	0.39	260	0.74	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL073 01+00N		1.14	17.1	310	7.0	9.0	<0.001	0.01	0.39	3.7	0.6	0.5	18.2	<0.01	0.03	1.8
FGL073 01+50N		0.91	14.8	420	5.2	5.5	<0.001	0.01	0.29	2.9	0.6	0.4	21.4	<0.01	0.03	1.3
FGL073 02+00N		0.67	10.7	540	6.5	5.9	<0.001	0.01	0.51	3.4	0.4	0.3	25.7	<0.01	0.03	2.4
FGL073 02+50N		0.47	6.3	470	6.0	6.7	<0.001	0.01	0.31	1.3	0.3	0.2	17.8	<0.01	0.02	0.3
FGL073 03+50N		0.88	14.7	500	9.2	6.7	<0.001	<0.01	0.27	3.2	0.6	0.4	19.3	<0.01	0.02	2.3
FGL073 04+00N		0.95	10.0	360	6.6	7.7	<0.001	0.01	0.26	2.3	0.4	0.5	13.3	<0.01	0.03	0.5
FGL073 04+50N		0.90	15.2	580	6.1	9.8	<0.001	0.01	0.28	3.5	0.6	0.5	28.4	<0.01	0.03	0.9
FGL073 06+50N		0.93	11.4	810	74.8	5.2	<0.001	0.01	0.97	4.0	0.5	0.4	31.3	<0.01	0.03	1.9
FGL073 7+50N		0.86	13.6	520	107.5	7.7	<0.001	0.01	1.05	4.4	0.6	0.4	34.3	<0.01	0.02	1.2
FGL073 08+50N		0.71	12.6	620	234	4.9	<0.001	0.01	2.63	3.1	0.4	0.3	26.3	<0.01	0.03	1.8
FGL073 09+00N		0.88	13.3	360	61.2	5.4	<0.001	0.01	0.74	2.9	0.4	0.4	22.8	<0.01	0.02	1.9
FGL073 09+50N		0.92	17.0	650	30.8	5.7	<0.001	0.02	0.65	3.7	0.5	0.4	44.4	<0.01	0.03	1.3
FGL073 10+00N		0.88	14.4	370	27.9	6.2	<0.001	0.01	0.73	3.9	0.5	0.3	28.3	<0.01	0.03	1.8
FGL073 10+50N		0.99	14.5	470	9.7	7.0	<0.001	0.01	0.40	3.5	0.4	0.4	25.8	<0.01	0.03	1.6
FGL073 11+00N		1.25	15.5	310	8.9	11.2	<0.001	0.01	0.29	4.2	0.7	0.5	22.8	<0.01	0.04	1.8
FGL073 11+50N		1.29	17.6	260	8.3	9.0	<0.001	0.01	0.40	3.5	0.3	0.5	18.5	<0.01	0.04	1.8
FGL073 12+00N		1.33	14.0	180	7.3	9.5	<0.001	0.01	0.29	3.1	0.4	0.5	14.7	<0.01	0.04	1.9
FGL073 12+50N		1.20	17.2	210	7.6	6.8	<0.001	0.01	0.33	3.2	0.4	0.5	17.5	<0.01	0.03	2.2
FGL073 13+00N		1.31	13.7	360	8.2	10.8	<0.001	0.01	0.29	3.1	0.4	0.5	25.4	<0.01	0.03	1.5
FGL073 13+50N		0.93	17.0	440	6.0	5.2	<0.001	0.01	0.36	3.7	0.4	0.4	23.0	<0.01	0.03	2.2
FGL073 14+00N		0.74	10.6	410	8.0	9.4	<0.001	0.01	0.27	2.4	0.5	0.3	22.0	<0.01	0.03	0.3
FGL073 14+50N		1.38	18.9	560	8.4	10.1	<0.001	0.01	0.34	4.0	0.7	0.5	15.8	<0.01	0.04	2.4
FGL073 15+00N		1.25	16.5	420	23.8	8.4	<0.001	0.01	0.43	3.8	0.6	0.5	15.3	<0.01	0.03	2.4
FGL073 15+50N		1.15	16.0	520	22.0	8.7	<0.001	0.01	0.63	4.4	0.7	0.5	17.7	<0.01	0.04	2.4
FGL073 16+00N		0.90	20.1	730	39.7	7.5	<0.001	0.01	0.56	4.3	0.5	0.4	24.6	<0.01	0.03	2.2
FGL073 16+50N		1.10	10.3	310	11.2	7.0	<0.001	0.01	0.31	2.7	0.5	0.4	16.6	<0.01	0.03	2.1
FGL073 17+50N		1.21	15.3	530	9.2	9.3	<0.001	0.01	0.25	4.3	0.6	0.5	34.4	<0.01	0.03	1.8
FGL073 18+00N		1.08	19.0	500	8.7	8.0	<0.001	0.01	0.33	4.6	0.7	0.4	21.7	<0.01	0.03	2.3
FGL073 18+50N		1.50	15.5	410	9.2	8.8	<0.001	0.01	0.28	4.0	0.4	0.6	20.6	<0.01	0.03	2.4
FGL073 19+00N		1.35	18.3	460	9.0	8.6	<0.001	0.01	0.35	4.0	0.6	0.5	22.1	<0.01	0.04	2.2
FGL073 19+50N		1.14	17.3	460	9.0	8.7	<0.001	<0.01	0.28	4.1	0.4	0.6	29.9	<0.01	0.02	2.1
FGL073 20+00N		1.05	15.1	430	8.6	9.2	<0.001	<0.01	0.26	4.0	0.4	0.6	34.6	<0.01	0.03	2.7
FGL073 20+50N		1.14	19.3	410	7.9	8.7	<0.001	<0.01	0.28	3.6	0.4	0.5	26.0	<0.01	0.03	1.8
FGL073 21+00N		1.38	24.2	360	9.3	9.2	<0.001	<0.01	0.42	4.9	0.5	0.7	26.1	<0.01	0.04	4.0
FGL073 21+50N		0.46	21.2	460	12.0	9.6	<0.001	<0.01	1.86	6.1	0.8	0.5	20.2	<0.01	0.02	4.2
FGL073 22+00N		1.26	17.7	350	10.0	11.3	<0.001	<0.01	0.39	3.4	0.4	0.5	22.1	<0.01	0.02	2.3
FGL073 22+50N		1.41	21.8	550	8.7	8.0	<0.001	<0.01	0.38	4.3	0.6	0.5	23.1	<0.01	0.04	4.0
FGL073 23+00N		1.46	18.8	590	8.3	9.0	<0.001	<0.01	0.30	3.3	0.5	0.6	18.9	<0.01	0.02	2.6
FGL074 00+50N		1.14	16.0	650	7.5	12.1	<0.001	<0.01	0.44	3.9	0.4	0.7	26.3	<0.01	0.04	2.6
FGL074 01+00N		1.27	11.6	280	6.7	9.3	<0.001	<0.01	0.28	2.7	0.4	0.5	21.4	<0.01	0.02	2.0

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL073 01+00N		0.065	0.08	0.39	55	0.30	3.82	51	0.8
FGL073 01+50N		0.063	0.06	0.34	46	0.13	3.54	45	<0.5
FGL073 02+00N		0.047	0.09	0.37	43	0.10	6.04	60	0.6
FGL073 02+50N		0.024	0.05	0.20	32	0.09	2.37	53	<0.5
FGL073 03+50N		0.062	0.07	0.42	46	0.13	5.12	47	0.9
FGL073 04+00N		0.067	0.08	0.33	53	0.14	2.38	39	<0.5
FGL073 04+50N		0.053	0.08	0.42	50	0.15	5.88	59	<0.5
FGL073 06+50N		0.112	0.06	0.42	56	0.11	4.25	139	2.3
FGL073 7+50N		0.063	0.08	0.49	58	0.13	6.14	170	0.8
FGL073 08+50N		0.043	0.05	0.35	43	0.47	4.20	104	0.9
FGL073 09+00N		0.052	0.05	0.31	42	0.23	3.20	58	1.4
FGL073 09+50N		0.053	0.06	0.81	46	0.19	7.18	80	1.2
FGL073 10+00N		0.044	0.06	0.40	42	0.16	7.20	202	1.2
FGL073 10+50N		0.062	0.06	0.41	50	0.14	4.77	59	0.9
FGL073 11+00N		0.076	0.09	0.45	59	0.15	6.61	51	1.1
FGL073 11+50N		0.083	0.08	0.36	61	0.14	3.40	51	1.4
FGL073 12+00N		0.090	0.07	0.35	64	0.20	2.66	45	2.8
FGL073 12+50N		0.063	0.06	0.38	56	0.14	2.56	47	2.4
FGL073 13+00N		0.070	0.07	0.36	62	0.16	3.23	49	1.4
FGL073 13+50N		0.094	0.06	0.36	60	0.13	3.57	55	1.9
FGL073 14+00N		0.048	0.06	0.41	43	0.20	4.14	41	<0.5
FGL073 14+50N		0.089	0.11	0.54	63	0.18	4.02	51	1.3
FGL073 15+00N		0.080	0.08	0.49	56	0.18	4.28	45	1.1
FGL073 15+50N		0.070	0.11	0.58	55	0.19	5.58	78	0.9
FGL073 16+00N		0.070	0.08	0.55	52	0.17	5.55	55	1.1
FGL073 16+50N		0.053	0.06	0.42	53	0.13	3.38	47	0.9
FGL073 17+50N		0.071	0.08	0.55	64	0.18	7.29	62	0.6
FGL073 18+00N		0.057	0.08	0.56	56	0.19	5.82	53	1.2
FGL073 18+50N		0.091	0.09	0.52	68	0.20	3.60	50	1.6
FGL073 19+00N		0.072	0.09	0.50	63	0.18	4.59	49	1.3
FGL073 19+50N		0.064	0.09	0.55	64	0.15	5.10	59	0.7
FGL073 20+00N		0.057	0.10	0.61	63	0.18	5.42	59	1.2
FGL073 20+50N		0.063	0.10	0.49	58	0.14	3.95	47	0.7
FGL073 21+00N		0.096	0.13	0.61	68	0.17	4.40	53	3.7
FGL073 21+50N		0.015	0.26	0.82	67	0.11	7.33	111	1.2
FGL073 22+00N		0.040	0.10	0.42	56	0.16	4.30	49	1.0
FGL073 22+50N		0.072	0.11	0.80	55	0.17	6.87	50	1.7
FGL073 23+00N		0.068	0.11	0.56	53	0.19	4.09	45	1.4
FGL074 00+50N		0.094	0.09	0.37	70	0.13	3.71	90	1.9
FGL074 01+00N		0.063	0.08	0.36	54	0.13	3.23	44	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	
FGL074 01+50N		0.76	0.0011	0.04	1.62	8.4	<0.02	<10	380	0.51	0.11	0.18	0.09	25.0	9.1	23	
FGL074 02+00N		0.81	0.0025	0.02	1.73	10.3	<0.02	<10	380	0.44	0.14	0.21	0.06	23.3	7.1	26	
FGL074 02+50N		0.56	0.0008	0.02	1.55	9.7	<0.02	<10	160	0.29	0.11	0.09	0.11	30.1	12.7	19	
FGL074 03+00N		0.70	0.0017	0.05	1.90	7.9	<0.02	<10	230	0.38	0.11	0.19	0.07	26.6	8.5	29	
FGL074 03+50N		0.68	0.0020	0.11	2.26	12.0	<0.02	<10	260	0.46	0.28	0.19	0.11	25.1	8.9	27	
FGL074 04+00N		0.52	0.0015	0.05	1.97	10.0	<0.02	<10	160	0.38	0.14	0.16	0.12	21.6	8.2	28	
FGL074 07+00N		0.46	0.0063	0.48	2.05	13.5	<0.02	<10	310	0.62	0.10	0.59	0.38	25.3	12.4	30	
FGL074 08+00N		1.11	0.0019	0.08	1.51	4.8	<0.02	<10	190	0.46	0.07	0.50	0.16	25.8	8.2	21	
FGL074 08+50N		0.78	0.0053	0.04	1.56	5.5	0.02	<10	110	0.33	0.06	0.36	0.09	21.9	9.8	22	
FGL074 09+00N		0.64	0.0006	0.04	2.08	7.9	<0.02	<10	160	0.45	0.14	0.20	0.08	20.2	7.2	26	
FGL074 09+50N		0.66	0.0013	0.04	2.00	7.2	<0.02	<10	150	0.49	0.13	0.25	0.06	20.1	7.8	25	
FGL074 10+00N		0.70	0.0007	0.03	2.21	7.3	<0.02	<10	150	0.43	0.08	0.41	0.06	21.5	11.2	27	
FGL074 10+50N		0.68	0.0014	0.04	1.96	9.6	<0.02	<10	140	0.37	0.15	0.21	0.05	19.65	6.9	26	
FGL074 11+00N		0.69	0.0009	0.09	1.98	7.0	<0.02	<10	220	0.70	0.14	0.31	0.07	28.8	7.2	25	
FGL074 11+50N		0.62	0.0018	0.04	1.78	9.8	<0.02	<10	180	0.41	0.14	0.28	0.08	24.8	8.5	27	
FGL074 12+00N		0.55	0.0014	0.08	2.62	9.2	<0.02	<10	210	0.53	0.13	0.30	0.08	27.0	10.4	30	
FGL074 12+50N		0.86	0.0011	0.06	2.01	8.9	<0.02	<10	240	0.47	0.13	0.35	0.07	24.8	8.2	29	
FGL074 13+00N		0.72	0.0008	0.06	1.95	9.8	<0.02	<10	150	0.44	0.12	0.25	0.08	20.9	8.4	26	
FGL074 13+50N		0.76	0.0017	0.23	1.60	7.7	<0.02	<10	160	0.45	0.14	0.24	0.13	23.5	5.7	24	
FGL074 14+00N		0.65	0.0008	0.07	1.68	7.2	<0.02	<10	130	0.34	0.11	0.20	0.09	18.45	7.1	23	
FGL074 14+50N		0.92	0.0016	0.15	2.00	9.0	<0.02	<10	160	0.48	0.14	0.20	0.16	24.8	7.8	27	
FGL074 15+00N		0.72	0.0054	3.06	2.36	11.3	<0.02	<10	260	0.65	0.14	0.36	0.65	26.7	10.8	28	
FGL074 15+50N		0.74	0.0040	0.44	2.33	9.4	<0.02	<10	160	0.44	0.15	0.34	0.28	19.75	8.6	23	
FGL074 16+00N		0.61	0.0009	0.25	1.91	7.5	<0.02	<10	250	0.50	0.12	0.31	0.18	27.9	7.2	24	
FGL074 17+00N		0.47	0.0016	0.21	3.44	3.5	<0.02	<10	370	1.48	0.06	1.68	0.20	51.0	10.2	16	
FGL074 17+50N		0.65	0.0007	0.08	1.67	5.5	<0.02	<10	230	1.10	0.10	0.36	0.09	57.8	8.2	16	
FGL074 18+00N		0.63	0.0010	0.09	2.01	7.5	<0.02	<10	240	0.67	0.14	0.42	0.04	24.9	9.0	30	
FGL074 18+50N		0.85	0.0013	0.04	2.58	10.2	<0.02	<10	190	0.59	0.13	0.30	0.11	20.3	9.7	27	
FGL074 19+00N		0.49	0.0013	0.11	2.05	5.7	<0.02	<10	250	0.68	0.14	0.43	0.12	25.0	10.6	24	
FGL074 19+50N		0.75	0.0019	0.07	2.10	7.7	<0.02	<10	300	0.80	0.10	0.54	0.07	26.0	8.6	26	
FGL074 20+00N		0.80	0.0009	0.02	2.38	11.6	<0.02	<10	220	0.83	0.11	0.23	0.07	22.4	8.8	28	
FGL074 20+50N		0.76	0.0025	0.02	2.37	9.9	<0.02	<10	190	0.59	0.13	0.23	0.08	22.2	9.7	31	
FGL074 21+00N		0.57	0.0018	0.09	1.97	7.7	<0.02	<10	140	0.38	0.18	0.19	0.10	19.45	6.3	28	
FGL074 21+50N		0.73	0.0011	0.09	2.33	9.6	<0.02	<10	160	0.54	0.16	0.19	0.08	20.8	8.7	36	
FGL074 22+00N		0.68	0.0017	0.03	1.77	8.4	<0.02	<10	90	0.29	0.15	0.11	0.08	15.60	6.7	25	
FGL074 22+50N		0.59	0.0008	0.05	2.01	7.7	<0.02	<10	260	0.70	0.13	0.37	0.11	31.7	8.3	29	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL074 01+50N		2.46	10.2	2.63	7.50	<0.05	0.02	0.02	0.027	0.09	13.2	11.1	0.41	541	0.78	0.01
FGL074 02+00N		1.93	13.9	2.33	6.32	<0.05	0.04	0.02	0.022	0.08	13.7	12.8	0.44	193	0.68	0.02
FGL074 02+50N		1.72	8.8	2.90	7.22	<0.05	<0.02	0.01	0.024	0.10	15.9	12.0	0.32	698	0.96	0.01
FGL074 03+00N		1.39	15.4	2.52	6.79	<0.05	0.03	0.02	0.025	0.06	13.1	12.4	0.48	285	0.63	0.02
FGL074 03+50N		2.21	18.7	2.67	8.25	<0.05	0.02	0.02	0.030	0.07	12.6	13.9	0.39	266	0.77	0.02
FGL074 04+00N		1.53	16.4	2.50	6.42	<0.05	0.06	0.02	0.028	0.06	10.2	12.6	0.43	219	0.93	0.02
FGL074 07+00N		1.45	17.7	3.05	8.67	0.05	0.07	0.04	0.028	0.05	13.6	12.7	0.73	754	0.54	0.02
FGL074 08+00N		0.94	12.0	2.15	6.27	<0.05	0.04	0.02	0.019	0.05	14.3	10.0	0.59	321	0.30	0.02
FGL074 08+50N		1.00	10.6	2.20	6.18	<0.05	0.05	0.01	0.018	0.04	10.5	10.7	0.66	388	0.25	0.01
FGL074 09+00N		1.31	16.0	2.30	7.50	<0.05	0.02	0.03	0.023	0.06	10.4	11.1	0.46	216	0.63	0.02
FGL074 09+50N		1.38	13.5	2.25	7.54	<0.05	0.02	0.02	0.018	0.05	10.4	12.5	0.51	260	0.62	0.02
FGL074 10+00N		1.09	13.3	2.85	8.37	<0.05	0.04	0.01	0.023	0.05	10.5	14.1	0.79	366	0.45	0.02
FGL074 10+50N		1.33	10.9	2.48	8.52	<0.05	0.05	0.02	0.022	0.07	10.4	13.5	0.50	205	0.72	0.02
FGL074 11+00N		1.26	16.9	2.29	8.29	<0.05	0.03	0.01	0.027	0.06	17.0	12.2	0.47	228	0.75	0.02
FGL074 11+50N		1.45	17.3	2.44	7.59	<0.05	0.03	0.02	0.023	0.07	13.1	11.7	0.49	302	0.88	0.02
FGL074 12+00N		1.45	16.2	3.03	8.70	<0.05	0.09	0.03	0.029	0.07	13.9	15.6	0.70	332	0.73	0.02
FGL074 12+50N		1.51	16.9	2.40	6.63	<0.05	0.03	0.02	0.023	0.07	12.6	12.7	0.54	292	0.66	0.02
FGL074 13+00N		1.68	15.8	2.36	6.60	<0.05	0.02	0.02	0.023	0.07	10.2	12.2	0.45	255	0.58	0.02
FGL074 13+50N		1.59	13.3	2.05	7.19	<0.05	0.02	0.02	0.020	0.05	12.7	10.7	0.39	200	0.79	0.02
FGL074 14+00N		1.25	13.7	2.05	5.97	<0.05	0.03	0.03	0.019	0.06	9.5	10.2	0.42	250	0.56	0.02
FGL074 14+50N		3.09	13.1	2.43	7.20	<0.05	0.03	0.02	0.024	0.06	12.4	12.6	0.46	276	0.67	0.01
FGL074 15+00N		7.07	18.8	2.87	8.68	<0.05	0.04	0.09	0.034	0.06	14.3	15.4	0.60	433	0.62	0.02
FGL074 15+50N		2.89	14.0	2.38	8.37	<0.05	0.03	0.02	0.025	0.05	10.2	14.1	0.47	251	0.73	0.02
FGL074 16+00N		3.20	13.0	2.23	6.83	<0.05	0.02	0.02	0.022	0.06	18.7	11.0	0.45	286	0.67	0.02
FGL074 17+00N		2.65	22.9	2.91	14.65	0.21	0.05	0.07	0.041	0.07	103.0	25.6	0.94	526	0.37	0.03
FGL074 17+50N		1.47	12.5	2.04	7.84	0.08	<0.02	0.02	0.023	0.06	68.8	11.0	0.40	642	0.57	0.02
FGL074 18+00N		1.22	15.8	2.42	6.97	<0.05	0.02	0.01	0.025	0.05	13.5	13.3	0.54	373	0.58	0.01
FGL074 18+50N		1.21	18.2	2.58	8.26	<0.05	0.04	0.01	0.030	0.05	9.8	14.1	0.58	317	0.58	0.01
FGL074 19+00N		1.27	19.1	2.29	8.45	<0.05	<0.02	0.02	0.027	0.05	13.9	12.0	0.46	521	0.62	0.02
FGL074 19+50N		1.35	12.0	2.35	7.71	0.05	0.04	0.01	0.023	0.07	15.3	15.7	0.60	432	0.48	0.02
FGL074 20+00N		1.64	15.3	2.62	8.31	<0.05	0.03	0.02	0.028	0.07	13.6	15.8	0.52	288	0.58	0.01
FGL074 20+50N		1.59	15.8	2.58	8.17	<0.05	0.03	0.01	0.029	0.07	11.2	15.1	0.61	326	0.60	0.01
FGL074 21+00N		0.97	13.4	2.35	9.45	<0.05	0.04	0.01	0.024	0.05	10.1	16.3	0.44	202	0.81	0.01
FGL074 21+50N		1.22	16.2	2.70	8.31	<0.05	0.06	0.02	0.028	0.06	10.7	16.6	0.52	261	0.71	0.01
FGL074 22+00N		0.90	9.7	2.56	8.84	<0.05	0.03	0.01	0.022	0.06	7.9	15.5	0.42	266	0.70	0.01
FGL074 22+50N		1.40	19.8	2.57	7.75	<0.05	0.02	0.02	0.022	0.07	19.0	13.5	0.53	365	0.62	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL074 01+50N		1.25	11.9	420	7.7	13.0	<0.001	<0.01	0.43	3.0	0.3	0.5	23.5	<0.01	0.02	2.0
FGL074 02+00N		1.41	17.9	300	7.2	9.0	<0.001	<0.01	0.39	3.3	0.3	0.6	20.9	<0.01	0.03	2.6
FGL074 02+50N		1.08	9.7	520	12.9	11.9	<0.001	<0.01	0.58	2.4	0.3	0.5	10.0	<0.01	0.04	2.1
FGL074 03+00N		1.33	16.5	310	7.7	8.0	<0.001	<0.01	0.35	3.8	0.4	0.6	20.6	<0.01	0.02	2.8
FGL074 03+50N		1.82	17.7	450	10.1	11.0	<0.001	0.01	0.35	3.6	0.6	0.6	23.4	<0.01	0.03	2.0
FGL074 04+00N		1.45	18.1	440	8.6	8.6	<0.001	<0.01	0.38	4.0	0.4	0.6	16.7	0.01	0.04	3.4
FGL074 07+00N		1.27	17.1	790	58.7	6.6	<0.001	0.01	1.07	5.8	0.6	0.5	41.5	<0.01	0.03	2.5
FGL074 08+00N		0.98	12.2	710	21.4	5.3	<0.001	<0.01	0.40	4.1	0.5	0.4	35.7	<0.01	0.01	2.4
FGL074 08+50N		0.65	13.3	580	14.6	4.4	0.001	<0.01	0.39	3.4	0.6	0.4	26.9	<0.01	0.01	2.6
FGL074 09+00N		1.33	15.1	320	8.7	8.7	<0.001	<0.01	0.32	3.3	0.4	0.6	20.5	<0.01	0.02	1.5
FGL074 09+50N		1.34	14.4	330	8.3	8.8	<0.001	<0.01	0.28	3.2	0.4	0.6	22.7	<0.01	0.03	1.7
FGL074 10+00N		1.12	18.2	690	7.9	7.3	<0.001	<0.01	0.28	3.9	0.6	0.5	26.8	<0.01	0.03	2.3
FGL074 10+50N		1.52	14.9	300	8.9	11.0	<0.001	<0.01	0.28	3.5	0.6	0.7	18.6	<0.01	0.02	2.6
FGL074 11+00N		1.46	14.7	290	9.4	10.6	<0.001	<0.01	0.28	3.9	0.5	0.7	28.2	<0.01	0.02	2.3
FGL074 11+50N		1.34	17.8	370	8.1	14.5	<0.001	<0.01	0.36	3.8	0.2	0.6	25.4	<0.01	0.02	2.6
FGL074 12+00N		1.49	20.6	430	8.5	12.5	<0.001	<0.01	0.31	4.7	0.4	0.6	35.7	<0.01	0.02	3.8
FGL074 12+50N		1.29	19.5	410	8.3	10.6	<0.001	<0.01	0.33	4.1	0.6	0.5	27.2	<0.01	0.01	2.5
FGL074 13+00N		1.29	18.4	350	7.2	9.2	<0.001	<0.01	0.35	3.4	0.5	0.5	19.9	<0.01	0.03	2.3
FGL074 13+50N		1.32	13.5	310	8.1	9.9	<0.001	<0.01	0.29	3.3	0.5	0.6	24.4	<0.01	0.03	1.6
FGL074 14+00N		1.18	15.0	490	7.0	8.8	<0.001	<0.01	0.27	2.9	0.3	0.5	17.3	<0.01	0.02	1.9
FGL074 14+50N		1.37	16.0	580	13.8	9.6	<0.001	<0.01	0.51	3.6	0.5	0.6	19.9	<0.01	0.02	2.2
FGL074 15+00N		1.02	19.5	600	90.7	9.9	0.001	0.01	2.86	5.7	0.5	0.6	33.9	<0.01	0.05	2.5
FGL074 15+50N		1.46	18.2	410	17.4	8.9	<0.001	<0.01	0.57	3.8	0.4	0.6	37.0	0.01	0.03	2.1
FGL074 16+00N		1.04	15.5	390	38.7	8.9	<0.001	<0.01	0.62	3.8	0.4	0.5	30.6	<0.01	0.03	2.4
FGL074 17+00N		0.63	11.7	1320	8.9	9.4	<0.001	0.05	0.36	7.2	2.6	0.5	132.5	<0.01	0.03	3.6
FGL074 17+50N		0.71	9.3	500	9.1	9.9	<0.001	0.01	0.19	4.2	1.3	0.5	28.7	<0.01	0.02	2.0
FGL074 18+00N		1.22	19.2	550	9.8	6.8	<0.001	0.01	0.24	4.3	0.7	0.5	31.4	<0.01	0.01	2.7
FGL074 18+50N		1.28	22.5	500	9.7	8.6	<0.001	0.01	0.35	4.1	0.4	0.6	29.1	<0.01	0.01	3.1
FGL074 19+00N		0.99	13.3	360	9.8	9.3	<0.001	0.02	0.24	3.2	0.4	0.6	36.8	<0.01	0.02	0.7
FGL074 19+50N		0.98	15.9	530	7.3	8.0	0.001	0.01	0.28	5.4	0.5	0.5	49.0	<0.01	0.01	3.2
FGL074 20+00N		1.31	19.0	330	7.8	9.7	<0.001	0.01	0.32	4.3	0.5	0.5	23.9	<0.01	0.01	2.4
FGL074 20+50N		1.10	19.6	360	8.1	10.2	<0.001	0.01	0.35	4.2	0.5	0.6	21.0	<0.01	0.02	3.1
FGL074 21+00N		1.77	13.4	240	9.0	7.9	<0.001	0.01	0.26	3.5	0.2	0.8	20.3	<0.01	0.01	2.4
FGL074 21+50N		1.67	18.8	300	8.1	9.9	0.001	0.01	0.33	3.9	0.6	0.7	20.9	<0.01	0.02	3.0
FGL074 22+00N		1.62	14.3	420	8.5	9.7	<0.001	0.01	0.27	2.7	0.5	0.7	10.6	<0.01	0.01	2.3
FGL074 22+50N		1.12	17.5	410	9.3	11.1	0.001	0.01	0.26	3.5	0.8	0.5	33.4	<0.01	0.02	1.6

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL074 01+50N		0.058	0.10	0.38	59	0.17	3.76	62	0.8
FGL074 02+00N		0.068	0.11	0.44	64	0.17	3.84	43	1.2
FGL074 02+50N		0.030	0.10	0.30	57	0.13	3.05	74	0.6
FGL074 03+00N		0.083	0.10	0.58	60	0.15	4.92	47	1.3
FGL074 03+50N		0.071	0.12	0.49	64	0.18	4.41	46	0.8
FGL074 04+00N		0.084	0.10	0.60	56	0.19	3.53	44	2.7
FGL074 07+00N		0.122	0.09	0.59	68	0.15	8.78	156	2.8
FGL074 08+00N		0.112	0.06	0.54	55	0.20	7.06	76	1.5
FGL074 08+50N		0.102	0.06	0.40	51	0.11	4.18	60	1.9
FGL074 09+00N		0.086	0.09	0.52	60	0.14	3.29	50	0.8
FGL074 09+50N		0.092	0.09	0.49	63	0.16	3.44	52	0.8
FGL074 10+00N		0.124	0.07	0.50	69	0.13	4.21	69	1.5
FGL074 10+50N		0.098	0.11	0.47	69	0.18	3.31	49	2.0
FGL074 11+00N		0.088	0.11	0.59	63	0.18	5.12	45	1.1
FGL074 11+50N		0.086	0.10	0.50	64	0.18	4.30	52	1.4
FGL074 12+00N		0.110	0.11	0.69	73	0.17	4.85	61	3.6
FGL074 12+50N		0.078	0.10	0.53	58	0.19	5.90	52	1.3
FGL074 13+00N		0.075	0.10	0.46	57	0.16	3.63	49	1.1
FGL074 13+50N		0.074	0.10	0.53	56	0.17	4.87	48	0.8
FGL074 14+00N		0.074	0.10	0.47	51	0.17	3.40	43	1.0
FGL074 14+50N		0.069	0.13	0.55	58	0.17	3.97	65	0.9
FGL074 15+00N		0.056	0.15	0.61	63	0.18	8.42	145	1.2
FGL074 15+50N		0.082	0.09	0.47	59	0.20	3.86	75	1.0
FGL074 16+00N		0.044	0.11	0.47	51	0.19	11.85	63	0.6
FGL074 17+00N		0.030	0.06	23.7	64	0.12	79.2	91	1.2
FGL074 17+50N		0.036	0.07	1.21	48	0.14	23.2	48	<0.5
FGL074 18+00N		0.070	0.09	1.10	60	0.21	6.01	47	0.9
FGL074 18+50N		0.073	0.09	0.60	61	0.25	3.97	55	1.7
FGL074 19+00N		0.059	0.09	0.83	63	0.18	6.63	49	<0.5
FGL074 19+50N		0.054	0.07	1.14	55	0.15	9.85	56	1.4
FGL074 20+00N		0.060	0.09	0.61	61	0.17	6.61	48	1.2
FGL074 20+50N		0.071	0.10	0.57	61	0.21	4.13	54	1.7
FGL074 21+00N		0.099	0.12	0.46	73	0.20	3.29	41	1.8
FGL074 21+50N		0.097	0.11	0.50	71	0.20	3.64	50	2.7
FGL074 22+00N		0.071	0.10	0.41	65	0.21	2.32	45	1.5
FGL074 22+50N		0.055	0.09	0.75	64	0.19	9.22	54	<0.5

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164282

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164287

Project: Freegold Mtn - Tinta Property
P.O. No.: 1005139- NOFREG- R1
This report is for 167 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.
The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL075 00+00		0.59	0.0157	0.16	1.46	9.5	<0.02	<10	510	0.45	0.05	0.57	0.08	35.0	5.8	19
FGL075 00+50N		0.64	0.0019	0.09	1.43	7.7	<0.02	<10	790	0.45	0.26	0.33	0.06	26.5	6.6	18
FGL075 01+00N		0.52	0.0009	0.05	1.68	8.9	<0.02	<10	320	0.37	0.15	0.20	0.10	18.20	5.4	23
FGL075 01+50N		0.53	0.0007	0.06	1.70	4.8	<0.02	<10	400	0.46	0.09	0.20	0.06	19.05	6.1	18
FGL075 02+00N		0.67	0.0016	0.07	1.54	7.3	<0.02	<10	280	0.30	0.18	0.18	0.09	20.2	6.6	28
FGL075 02+50N		0.57	0.0022	0.04	0.81	7.7	0.02	<10	90	0.21	0.09	0.07	0.05	20.6	7.1	16
FGL075 03+00N		0.69	0.0019	0.02	1.19	4.5	<0.02	<10	340	0.35	0.09	0.29	0.05	27.4	5.6	24
FGL075 03+50N		0.46	0.0001	0.01	0.25	0.4	<0.02	<10	40	0.05	0.03	0.06	0.02	3.47	1.3	3
FGL075 04+00N		0.39	0.0010	0.09	0.56	2.1	<0.02	<10	210	0.14	0.05	0.12	0.05	6.77	2.1	7
FGL075 05+00N		0.83	0.0016	0.10	1.72	6.2	<0.02	<10	330	0.38	0.11	0.35	0.11	22.5	6.6	25
FGL075 05+50N		0.68	0.0006	0.06	0.46	1.6	<0.02	<10	160	0.08	0.05	0.20	0.06	7.39	6.1	9
FGL075 06+00N		0.48	0.0009	0.06	1.05	4.0	<0.02	<10	280	0.19	0.07	0.46	0.08	15.45	7.1	16
FGL075 06+50N		0.58	0.0008	0.03	0.87	1.4	<0.02	<10	190	0.16	0.06	0.27	0.04	11.15	2.5	13
FGL075 07+00N		0.50	0.0006	0.03	0.43	9.4	<0.02	<10	90	0.16	0.03	0.30	0.06	10.40	3.9	5
FGL075 07+50N		0.72	0.0012	0.09	1.82	5.2	<0.02	<10	210	0.41	0.10	0.43	0.09	24.4	8.4	25
FGL075 08+00N		0.46	0.0077	0.17	1.90	3.3	<0.02	<10	220	0.38	0.10	0.37	0.09	22.1	6.6	20
FGL075 08+50N		0.65	0.0055	0.05	1.70	3.6	<0.02	<10	190	0.41	0.08	0.49	0.05	29.8	8.6	22
FGL075 09+00N		0.49	0.0006	0.05	0.61	0.7	<0.02	<10	60	0.14	0.04	0.17	0.01	7.45	2.1	6
FGL075 09+50N		0.59	0.0044	0.06	1.67	4.9	<0.02	<10	120	0.37	0.10	0.21	0.05	16.70	5.9	20
FGL075 10+00N		0.81	0.0011	0.07	1.53	6.6	<0.02	<10	110	0.29	0.11	0.21	0.06	15.05	6.1	21
FGL075 10+50N		0.60	0.0008	0.05	1.66	6.5	<0.02	<10	130	0.35	0.11	0.35	0.07	20.8	8.7	24
FGL075 11+00N		0.73	0.0034	0.04	1.61	6.4	<0.02	<10	120	0.27	0.10	0.29	0.05	17.50	7.2	23
FGL075 11+50N		0.92	0.0020	0.03	1.58	5.7	<0.02	<10	120	0.28	0.11	0.36	0.03	17.70	7.3	23
FGL075 12+00N		0.70	0.0010	0.02	1.47	5.6	<0.02	<10	130	0.31	0.08	0.46	0.04	20.8	8.4	22
FGL075 12+50N		0.45	0.0017	0.05	0.49	2.7	<0.02	<10	80	0.19	0.05	0.36	0.01	10.05	4.2	7
FGL075 13+00N		0.67	0.0015	0.65	2.08	8.5	<0.02	<10	410	0.76	0.13	0.82	0.15	37.7	12.7	25
FGL075 13+50N		0.45	0.0016	0.37	2.12	3.7	<0.02	<10	430	0.57	0.09	0.58	0.07	25.4	6.6	21
FGL075 14+00N		0.52	0.0010	0.07	0.89	2.2	<0.02	<10	110	0.19	0.06	0.25	0.05	8.88	3.5	10
FGL075 14+50N		0.53	0.0028	0.19	1.58	5.4	<0.02	<10	280	0.39	0.09	0.63	0.09	18.85	8.2	20
FGL075 15+00N		0.37	0.0018	0.74	0.50	3.5	<0.02	<10	240	0.16	0.05	0.89	0.26	9.51	6.4	7
FGL075 15+50N		0.50	0.0017	0.41	1.84	4.4	<0.02	<10	280	0.68	0.09	0.93	0.28	19.60	6.4	16
FGL075 16+00N		0.21	0.0051	0.26	1.28	4.0	0.02	<10	470	0.53	0.07	1.58	1.28	20.0	7.6	14
FGL075 16+50N		0.34	0.0012	0.17	0.93	1.8	0.08	<10	230	0.34	0.06	0.79	0.41	17.00	3.7	10
FGL075 17+00N		0.45	0.0015	0.07	1.69	1.2	<0.02	<10	180	0.47	0.05	0.68	0.06	16.15	3.1	9
FGL075 17+50N		0.63	0.0013	0.04	1.86	4.0	<0.02	<10	150	0.36	0.07	0.51	0.03	14.40	5.9	15
FGL075 18+00N		0.58	0.0015	0.10	2.02	5.0	<0.02	<10	150	0.56	0.10	0.29	0.06	24.2	6.2	22
FGL075 18+50N		0.58	0.0011	0.07	2.82	8.0	<0.02	<10	200	0.63	0.14	0.50	0.06	19.30	10.4	25
FGL075 19+00N		0.64	0.0015	0.06	1.02	3.0	<0.02	<10	100	0.21	0.06	0.24	0.03	9.26	4.9	12
FGL075 19+50N		0.66	0.0010	0.04	1.83	8.6	<0.02	<10	170	0.51	0.12	0.30	0.06	18.30	5.7	19
FGL075 20+00N		0.52	0.0003	0.04	0.91	2.5	<0.02	<10	80	0.20	0.05	0.19	0.03	7.00	3.6	7

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CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL075 00+00		4.26	8.6	2.18	5.61	0.11	0.02	0.06	0.020	0.08	24.5	9.6	0.44	343	0.22	0.01
FGL075 00+50N		5.21	11.5	2.01	5.19	0.10	<0.02	0.02	0.020	0.09	19.2	8.7	0.29	363	0.63	0.02
FGL075 01+00N		2.02	13.4	2.19	5.53	0.09	<0.02	0.01	0.018	0.10	9.4	11.0	0.36	210	0.64	0.01
FGL075 01+50N		2.72	12.3	1.87	5.73	0.09	<0.02	0.03	0.018	0.09	11.3	8.2	0.25	413	0.53	0.03
FGL075 02+00N		2.04	13.8	2.10	7.46	<0.05	<0.02	0.03	0.022	0.06	10.4	10.9	0.35	276	0.88	0.01
FGL075 02+50N		1.77	5.6	1.87	5.64	<0.05	<0.02	0.02	0.016	0.06	10.5	3.7	0.15	423	0.92	0.01
FGL075 03+00N		1.16	11.3	1.73	4.61	0.05	<0.02	0.03	0.016	0.05	14.9	9.9	0.44	214	0.32	0.01
FGL075 03+50N		0.14	7.6	0.55	1.48	<0.05	<0.02	0.03	<0.005	0.03	1.8	0.4	0.02	29	0.11	0.02
FGL075 04+00N		1.68	8.7	0.86	2.64	<0.05	<0.02	0.04	0.007	0.04	3.8	1.9	0.07	67	0.34	0.02
FGL075 05+00N		1.71	13.4	2.07	6.69	0.05	<0.02	0.06	0.024	0.05	12.0	12.0	0.42	158	0.35	0.01
FGL075 05+50N		0.59	5.3	1.65	3.23	<0.05	<0.02	0.04	0.007	0.02	3.5	2.3	0.12	493	0.32	0.02
FGL075 06+00N		0.92	9.0	1.58	4.35	<0.05	0.02	0.05	0.013	0.04	8.2	7.7	0.32	575	0.36	0.02
FGL075 06+50N		0.74	11.7	0.82	3.51	<0.05	<0.02	0.04	0.010	0.03	5.9	5.3	0.20	74	0.16	0.02
FGL075 07+00N		0.20	18.0	1.94	1.80	<0.05	<0.02	0.03	0.005	0.02	4.9	1.3	0.06	227	0.31	0.02
FGL075 07+50N		0.85	19.4	2.16	6.53	<0.05	0.02	0.05	0.020	0.04	13.1	10.9	0.47	300	0.51	0.02
FGL075 08+00N		0.83	17.9	2.03	6.52	<0.05	0.02	0.06	0.017	0.05	11.9	8.5	0.30	176	0.41	0.02
FGL075 08+50N		0.67	13.1	2.24	6.72	0.05	0.03	0.03	0.017	0.05	15.7	10.3	0.50	261	0.38	0.02
FGL075 09+00N		0.24	4.9	0.75	2.61	<0.05	<0.02	0.03	0.005	0.03	3.8	2.2	0.09	56	0.12	0.03
FGL075 09+50N		0.85	11.8	1.78	5.86	<0.05	<0.02	0.03	0.016	0.05	8.6	8.6	0.36	188	0.50	0.02
FGL075 10+00N		0.93	12.0	2.09	6.48	<0.05	<0.02	0.03	0.017	0.06	7.8	9.6	0.34	172	0.56	0.02
FGL075 10+50N		0.99	12.7	2.38	7.27	<0.05	0.02	0.02	0.018	0.06	11.0	12.3	0.59	313	0.52	0.01
FGL075 11+00N		1.01	9.8	2.09	6.34	<0.05	0.02	0.02	0.018	0.05	9.0	12.7	0.51	243	0.46	0.01
FGL075 11+50N		0.97	9.4	2.11	6.72	<0.05	0.02	0.01	0.016	0.05	9.3	11.9	0.56	259	0.49	0.01
FGL075 12+00N		1.09	9.0	2.29	6.28	<0.05	0.03	0.02	0.018	0.04	10.7	12.5	0.68	360	0.33	0.01
FGL075 12+50N		0.32	6.3	1.57	2.87	<0.05	<0.02	0.03	0.005	0.02	5.3	1.9	0.10	198	0.31	0.03
FGL075 13+00N		1.90	19.7	2.75	7.07	0.06	0.03	0.06	0.028	0.05	21.0	15.8	0.54	485	0.98	0.02
FGL075 13+50N		3.36	22.5	1.98	6.67	<0.05	0.03	0.07	0.023	0.06	13.7	9.6	0.31	195	0.37	0.02
FGL075 14+00N		0.95	7.5	1.47	3.99	<0.05	<0.02	0.02	0.008	0.03	4.9	3.6	0.14	94	0.26	0.02
FGL075 14+50N		3.01	14.5	2.34	6.41	<0.05	0.03	0.03	0.018	0.04	10.6	10.5	0.41	347	0.47	0.01
FGL075 15+00N		1.75	13.6	2.05	3.39	<0.05	0.02	0.05	0.008	0.02	6.0	2.4	0.10	530	0.37	0.03
FGL075 15+50N		6.36	15.1	2.00	6.96	0.06	0.06	0.07	0.019	0.04	18.0	11.6	0.42	553	0.34	0.02
FGL075 16+00N		2.23	26.5	2.07	3.88	0.06	0.04	0.07	0.015	0.04	19.7	7.8	0.28	1250	0.33	0.02
FGL075 16+50N		1.13	15.1	1.05	3.37	<0.05	0.03	0.04	0.011	0.03	13.1	5.6	0.22	304	0.13	0.02
FGL075 17+00N		1.58	10.5	0.94	6.02	<0.05	0.03	0.07	0.014	0.04	9.4	7.2	0.22	156	0.18	0.03
FGL075 17+50N		0.85	8.4	1.88	6.84	<0.05	0.02	0.02	0.017	0.04	8.0	10.5	0.50	251	0.27	0.02
FGL075 18+00N		0.88	11.9	1.99	6.97	<0.05	0.02	0.04	0.018	0.04	14.0	8.5	0.35	176	0.43	0.02
FGL075 18+50N		1.23	15.1	2.91	11.70	<0.05	0.02	0.03	0.028	0.05	12.3	15.6	0.58	407	0.69	0.01
FGL075 19+00N		0.55	6.2	1.34	4.48	<0.05	<0.02	0.02	0.010	0.03	5.1	6.1	0.22	194	0.36	0.02
FGL075 19+50N		0.99	9.5	2.20	7.67	<0.05	0.02	0.02	0.019	0.04	11.2	10.3	0.35	186	0.63	0.01
FGL075 20+00N		0.37	5.8	0.96	3.36	<0.05	<0.02	0.01	0.008	0.03	3.1	4.0	0.17	205	0.22	0.02

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL075 00+00		0.68	9.7	1120	5.9	7.6	<0.001	0.02	0.29	5.0	0.6	0.4	58.7	<0.01	<0.01	2.6
FGL075 00+50N		0.67	10.4	570	8.0	9.1	<0.001	0.01	0.36	3.7	0.5	0.3	35.5	<0.01	0.01	1.6
FGL075 01+00N		1.05	14.5	400	8.0	9.2	<0.001	0.01	0.39	2.7	0.4	0.4	21.7	<0.01	0.02	1.5
FGL075 01+50N		0.69	9.3	430	5.3	9.5	<0.001	0.02	0.25	2.6	0.5	0.3	27.6	<0.01	0.01	0.7
FGL075 02+00N		1.37	12.9	260	7.4	12.9	0.001	<0.01	0.42	3.1	0.3	0.6	28.9	<0.01	0.02	1.6
FGL075 02+50N		0.98	7.0	280	8.5	10.8	0.001	<0.01	0.61	1.9	0.2	0.4	9.5	<0.01	0.01	1.0
FGL075 03+00N		0.97	12.1	400	5.3	5.4	0.001	<0.01	0.25	2.9	0.4	0.4	23.6	<0.01	0.01	1.5
FGL075 03+50N		0.09	1.1	190	0.8	1.2	<0.001	0.01	0.06	0.2	0.2	<0.2	11.2	<0.01	<0.01	<0.2
FGL075 04+00N		0.18	3.5	390	1.9	4.1	<0.001	0.02	0.12	0.5	0.2	0.2	22.8	<0.01	<0.01	<0.2
FGL075 05+00N		1.09	13.2	690	8.5	7.9	0.001	0.02	0.34	4.0	0.5	0.5	43.7	<0.01	0.02	1.3
FGL075 05+50N		0.25	4.1	650	1.4	2.6	0.001	0.03	0.12	1.0	0.3	0.2	31.2	<0.01	<0.01	<0.2
FGL075 06+00N		0.70	9.0	740	3.6	5.1	<0.001	0.03	0.23	2.4	0.3	0.3	89.6	<0.01	0.01	0.8
FGL075 06+50N		0.58	6.1	610	3.1	3.4	<0.001	0.03	0.18	1.3	0.3	0.2	36.0	<0.01	<0.01	0.3
FGL075 07+00N		0.21	2.9	710	1.3	1.1	<0.001	0.03	0.21	0.7	0.3	<0.2	28.3	<0.01	0.01	0.2
FGL075 07+50N		0.96	13.2	820	5.9	5.9	0.001	0.03	0.27	3.7	0.6	0.4	34.5	<0.01	0.02	1.0
FGL075 08+00N		0.83	11.4	790	5.0	5.8	0.001	0.04	0.21	3.0	0.5	0.4	36.3	<0.01	0.01	0.4
FGL075 08+50N		0.94	12.3	930	4.7	7.2	0.001	0.01	0.20	4.1	0.5	0.4	35.2	<0.01	0.01	1.6
FGL075 09+00N		0.24	2.7	450	1.5	2.6	0.001	0.01	0.07	1.0	<0.2	<0.2	15.8	<0.01	0.01	<0.2
FGL075 09+50N		0.95	10.4	380	5.6	7.8	<0.001	0.01	0.21	2.8	0.3	0.4	21.0	<0.01	0.01	1.1
FGL075 10+00N		0.98	11.7	450	6.4	10.1	<0.001	0.01	0.24	2.4	0.3	0.4	19.2	<0.01	0.01	0.8
FGL075 10+50N		1.18	14.1	560	6.6	12.1	0.001	<0.01	0.26	3.3	0.3	0.5	31.7	<0.01	0.02	1.7
FGL075 11+00N		1.20	13.7	460	6.2	9.1	<0.001	<0.01	0.25	3.0	0.2	0.4	22.3	<0.01	0.01	1.5
FGL075 11+50N		1.15	12.7	480	6.0	9.6	<0.001	<0.01	0.21	3.1	0.2	0.4	26.7	<0.01	0.01	1.5
FGL075 12+00N		1.03	11.9	630	6.0	7.4	0.001	<0.01	0.31	3.3	0.3	0.4	29.4	<0.01	0.01	2.1
FGL075 12+50N		0.30	3.5	660	1.6	1.6	0.001	0.02	0.13	1.0	0.2	<0.2	37.4	<0.01	0.01	0.2
FGL075 13+00N		0.88	16.8	1030	8.8	7.2	<0.001	0.03	0.57	5.2	1.0	0.4	81.9	<0.01	0.02	1.5
FGL075 13+50N		0.73	12.8	870	24.3	9.1	0.001	0.06	0.52	4.4	1.0	0.3	51.7	<0.01	0.01	0.7
FGL075 14+00N		0.53	5.2	360	4.3	4.9	<0.001	0.01	0.17	1.5	0.2	0.2	25.2	<0.01	<0.01	0.5
FGL075 14+50N		0.86	11.9	730	8.3	6.7	<0.001	0.03	0.53	3.2	0.6	0.4	56.1	<0.01	0.01	1.0
FGL075 15+00N		0.27	4.6	930	8.8	1.5	<0.001	0.05	1.50	1.0	0.5	<0.2	105.5	<0.01	0.01	0.2
FGL075 15+50N		0.80	9.0	890	10.7	5.0	0.001	0.07	1.26	4.2	1.0	0.3	85.9	<0.01	0.01	1.1
FGL075 16+00N		0.54	8.8	1070	16.5	4.5	0.001	0.15	0.56	2.3	1.0	0.2	142.0	<0.01	0.01	0.7
FGL075 16+50N		0.50	5.7	830	9.4	2.6	0.001	0.08	0.29	1.6	0.5	0.2	61.7	<0.01	0.01	0.6
FGL075 17+00N		0.50	5.1	640	3.3	4.5	<0.001	0.04	0.18	2.8	0.5	0.3	49.7	<0.01	<0.01	0.6
FGL075 17+50N		0.91	8.5	710	5.8	4.1	<0.001	<0.01	0.16	2.9	0.3	0.3	41.0	<0.01	0.01	1.2
FGL075 18+00N		1.00	11.2	490	7.5	5.8	<0.001	0.01	0.21	3.9	0.5	0.4	24.0	<0.01	0.01	1.3
FGL075 18+50N		1.25	15.0	580	9.8	9.0	<0.001	0.01	0.29	4.6	0.4	0.6	37.9	<0.01	0.02	1.4
FGL075 19+00N		0.67	6.3	370	3.6	3.7	<0.001	0.01	0.14	1.6	0.2	0.2	22.0	<0.01	0.01	0.6
FGL075 19+50N		1.29	10.0	350	7.0	6.3	<0.001	0.01	0.22	3.2	0.3	0.5	39.5	<0.01	0.02	1.2
FGL075 20+00N		0.49	3.6	350	2.3	3.4	<0.001	<0.01	0.08	1.2	<0.2	0.2	19.3	<0.01	<0.01	0.3

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL075 00+00		0.047	0.07	0.75	45	0.24	13.85	63	0.7
FGL075 00+50N		0.038	0.08	0.60	51	0.54	7.45	42	<0.5
FGL075 01+00N		0.061	0.09	0.43	54	0.15	2.84	50	<0.5
FGL075 01+50N		0.041	0.07	0.38	46	0.11	4.75	45	<0.5
FGL075 02+00N		0.061	0.09	0.35	53	0.23	3.45	49	0.5
FGL075 02+50N		0.043	0.07	0.23	49	0.13	2.16	55	<0.5
FGL075 03+00N		0.079	0.06	0.41	42	0.14	5.93	43	<0.5
FGL075 03+50N		0.025	0.02	0.12	19	<0.05	0.61	10	<0.5
FGL075 04+00N		0.023	0.04	0.23	23	0.05	1.64	17	<0.5
FGL075 05+00N		0.062	0.10	0.58	48	0.52	5.66	56	0.5
FGL075 05+50N		0.070	0.03	0.21	55	0.05	1.85	33	<0.5
FGL075 06+00N		0.064	0.07	0.44	41	0.24	4.43	45	0.7
FGL075 06+50N		0.044	0.06	0.34	20	0.11	2.62	28	<0.5
FGL075 07+00N		0.045	0.03	0.27	34	0.05	2.87	21	<0.5
FGL075 07+50N		0.084	0.07	0.73	52	0.17	6.35	48	0.8
FGL075 08+00N		0.081	0.07	0.61	52	0.10	5.57	37	0.7
FGL075 08+50N		0.122	0.07	0.61	60	0.14	7.01	49	1.2
FGL075 09+00N		0.049	0.03	0.20	24	0.05	1.42	15	<0.5
FGL075 09+50N		0.083	0.07	0.44	46	0.13	3.05	35	0.7
FGL075 10+00N		0.089	0.07	0.38	61	0.15	2.62	39	0.5
FGL075 10+50N		0.113	0.07	0.42	63	0.13	3.91	49	0.8
FGL075 11+00N		0.094	0.07	0.38	54	0.12	3.07	43	0.7
FGL075 11+50N		0.102	0.07	0.38	58	0.14	3.42	45	0.7
FGL075 12+00N		0.118	0.07	0.40	58	0.11	4.03	53	1.2
FGL075 12+50N		0.064	0.03	0.29	53	0.06	2.68	19	<0.5
FGL075 13+00N		0.070	0.08	5.38	64	0.12	14.25	60	1.0
FGL075 13+50N		0.058	0.09	1.28	54	0.13	10.05	60	1.0
FGL075 14+00N		0.066	0.05	0.26	46	0.07	1.65	27	0.5
FGL075 14+50N		0.081	0.07	0.59	66	0.14	5.86	51	1.1
FGL075 15+00N		0.076	0.05	0.85	68	0.05	4.94	33	0.8
FGL075 15+50N		0.058	0.07	1.46	50	0.13	13.05	53	1.7
FGL075 16+00N		0.023	0.08	2.40	28	0.14	19.75	106	1.4
FGL075 16+50N		0.034	0.06	2.26	29	0.09	10.75	48	1.0
FGL075 17+00N		0.036	0.05	1.62	20	0.07	6.70	28	1.3
FGL075 17+50N		0.073	0.05	0.55	46	0.13	3.68	45	0.5
FGL075 18+00N		0.073	0.07	0.81	60	0.17	8.94	39	0.8
FGL075 18+50N		0.103	0.09	0.70	77	0.18	7.72	60	0.6
FGL075 19+00N		0.053	0.05	0.40	39	0.12	2.56	26	<0.5
FGL075 19+50N		0.083	0.07	0.50	68	0.37	5.63	40	0.6
FGL075 20+00N		0.041	0.03	0.22	26	0.10	1.63	21	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL075 20+50N		0.68	0.0029	0.04	2.10	8.3	<0.02	<10	180	0.42	0.14	0.32	0.07	20.4	8.5	26
FGL075 21+00N		0.55	0.0005	0.05	1.31	6.1	<0.02	<10	110	0.26	0.09	0.20	0.06	15.40	5.4	17
FGL075 21+50N		0.67	0.0011	0.06	1.38	5.0	<0.02	<10	130	0.24	0.12	0.18	0.04	14.60	4.4	19
FGL075 22+00N		0.65	0.0012	0.08	2.07	18.5	<0.02	<10	300	0.65	0.11	0.52	0.05	27.0	9.0	31
FGL075 22+50N		0.57	0.0009	0.05	1.58	4.9	<0.02	<10	230	0.37	0.09	0.29	0.03	17.40	5.6	20
FGL075 23+00N		0.71	0.0010	0.01	1.46	6.1	<0.02	<10	170	0.30	0.08	0.41	0.04	19.80	7.8	24
FGL076 00+00		0.59	0.0014	0.06	2.17	6.6	<0.02	<10	1350	0.91	0.04	0.63	0.16	87.9	10.4	19
FGL076 00+50N		0.75	0.0012	0.02	2.02	9.3	<0.02	<10	240	0.40	0.13	0.19	0.08	19.85	7.1	24
FGL076 01+00N		0.80	0.0010	0.01	1.20	5.6	<0.02	<10	370	0.28	0.08	0.29	0.06	20.5	6.1	19
FGL076 01+50N		0.57	0.0018	0.08	1.64	6.1	<0.02	<10	1060	0.38	0.10	0.48	0.06	26.7	8.4	22
FGL076 02+00N		0.59	0.0032	0.02	1.18	9.8	<0.02	<10	1000	0.51	0.05	0.31	0.05	38.0	7.2	13
FGL076 02+50N		0.65	0.0006	0.01	1.98	13.1	<0.02	<10	190	0.36	0.11	0.16	0.09	24.1	9.8	24
FGL076 03+00N		0.56	0.0019	0.02	0.85	5.4	<0.02	<10	170	0.16	0.10	0.12	0.05	12.45	3.4	14
FGL076 03+50N		0.57	0.0006	0.02	0.94	4.7	<0.02	<10	100	0.14	0.09	0.10	0.05	11.00	3.4	11
FGL076 04+00N		0.75	0.0028	0.04	1.27	6.3	<0.02	<10	220	0.25	0.08	0.23	0.03	16.25	5.9	19
FGL076 04+50N		0.88	0.0010	0.03	1.57	7.9	<0.02	<10	710	0.45	0.11	0.29	0.05	28.9	6.9	26
FGL076 05+50N		0.69	0.0028	0.05	1.33	4.9	<0.02	<10	320	0.26	0.08	0.27	0.04	17.85	7.9	19
FGL076 06+00N		0.90	0.0020	0.05	1.39	6.0	0.04	<10	320	0.24	0.09	0.34	0.03	19.00	6.6	23
FGL076 06+50N		0.65	0.0014	0.04	1.17	4.3	<0.02	<10	180	0.19	0.08	0.25	0.06	16.95	4.3	18
FGL076 07+00N		0.38	0.0016	0.09	2.12	116.0	<0.02	<10	420	1.03	0.10	0.48	0.51	44.4	21.3	18
FGL076 07+50N		0.31	0.0026	0.21	1.75	51.5	<0.02	<10	350	0.51	0.09	0.74	0.16	22.0	17.5	21
FGL076 08+00N		0.40	0.0014	0.24	1.44	5.4	<0.02	<10	280	0.36	0.07	1.01	0.36	20.6	9.3	18
FGL076 08+50N		0.43	0.0015	0.25	1.36	4.6	<0.02	<10	220	0.32	0.06	0.97	0.29	20.9	7.6	18
FGL076 09+00N		0.36	0.0115	0.35	1.57	5.4	<0.02	<10	560	0.49	0.08	0.80	1.06	36.4	40.7	19
FGL076 09+50N		0.56	0.0025	0.20	1.54	2.9	<0.02	<10	230	0.33	0.07	0.79	0.27	21.6	7.5	19
FGL076 10+00N		0.51	0.0019	0.22	1.38	6.2	<0.02	<10	240	0.31	0.07	0.84	0.33	20.1	6.5	18
FGL076 10+50N		0.62	0.0029	0.26	1.53	3.7	<0.02	<10	280	0.37	0.07	0.86	0.32	21.1	7.5	19
FGL076 11+00N		0.50	0.0015	0.33	1.75	28.4	<0.02	<10	380	0.54	0.08	1.15	0.54	25.6	13.2	18
FGL076 12+00N		0.66	0.0010	0.10	1.36	4.5	<0.02	<10	150	0.35	0.06	0.31	0.03	14.60	4.7	14
FGL076 12+50N		0.66	0.0015	0.05	1.48	12.2	<0.02	<10	170	0.24	0.09	0.34	0.06	21.0	7.6	24
FGL076 13+00N		0.78	0.0010	0.35	1.55	10.2	<0.02	<10	210	0.36	0.09	0.37	0.08	20.0	8.4	24
FGL076 13+50N		0.64	0.0013	0.05	2.17	16.1	<0.02	<10	160	0.38	0.12	0.25	0.10	19.00	9.4	28
FGL076 14+00N		0.50	0.0007	0.11	1.03	1.4	<0.02	<10	150	0.18	0.04	0.51	0.03	8.55	3.2	8
FGL076 14+50N		0.44	0.0012	0.09	1.34	18.4	<0.02	<10	260	0.38	0.07	0.71	0.36	22.5	7.9	12
FGL076 15+50N		0.28	0.0010	0.17	0.80	15.5	<0.02	<10	140	0.18	0.07	0.55	0.21	10.10	4.2	7
FGL076 17+00N		0.88	0.0023	0.11	2.34	8.1	<0.02	<10	310	0.66	0.11	0.77	0.05	28.0	9.7	36
FGL076 17+50N		0.75	0.0004	0.09	1.00	2.1	<0.02	<10	100	0.22	0.08	0.29	0.05	9.76	3.9	10
FGL076 18+00N		0.81	0.0006	0.08	1.71	5.1	<0.02	<10	100	0.27	0.16	0.28	0.08	15.45	6.0	17
FGL076 18+50N		0.77	0.0010	0.03	2.10	12.8	0.09	<10	140	0.40	0.15	0.16	0.10	16.30	7.8	27
FGL076 19+00N		0.69	0.0034	0.06	2.70	10.5	<0.02	<10	140	0.50	0.13	0.35	0.11	22.2	9.8	29

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL075 20+50N		1.10	11.9	2.31	8.41	<0.05	0.03	0.03	0.025	0.05	10.3	15.7	0.52	313	0.54	0.01
FGL075 21+00N		0.70	15.0	1.65	4.75	<0.05	<0.02	0.02	0.015	0.04	7.2	7.9	0.28	158	0.47	0.01
FGL075 21+50N		0.74	10.1	1.67	6.00	<0.05	<0.02	0.01	0.015	0.04	7.6	8.4	0.30	176	0.58	0.01
FGL075 22+00N		0.85	20.3	2.26	6.83	<0.05	0.04	0.03	0.027	0.04	13.4	16.1	0.56	405	0.41	0.01
FGL075 22+50N		0.81	11.8	1.73	5.13	<0.05	<0.02	0.02	0.016	0.05	8.4	8.4	0.32	224	0.31	0.02
FGL075 23+00N		0.79	9.6	2.03	5.10	<0.05	0.03	0.01	0.017	0.04	9.7	11.6	0.52	317	0.38	0.01
FGL076 00+00		7.76	16.1	3.23	10.00	0.08	0.02	0.06	0.044	0.25	49.6	16.2	0.68	2840	0.57	0.01
FGL076 00+50N		4.02	13.9	2.51	8.22	<0.05	<0.02	0.01	0.023	0.07	10.1	13.1	0.40	264	0.75	0.01
FGL076 01+00N		1.92	7.8	1.90	5.03	<0.05	<0.02	0.01	0.018	0.07	10.2	10.7	0.39	290	0.47	0.01
FGL076 01+50N		2.38	15.6	2.03	5.81	<0.05	0.03	0.04	0.026	0.07	15.9	9.4	0.36	408	0.52	0.01
FGL076 02+00N		3.33	9.9	1.95	4.30	<0.05	<0.02	0.01	0.020	0.08	19.3	6.4	0.20	544	0.34	0.01
FGL076 02+50N		2.48	13.6	2.96	7.40	<0.05	0.03	0.01	0.030	0.10	11.7	15.1	0.44	385	0.72	0.01
FGL076 03+00N		0.77	9.7	1.46	4.80	<0.05	<0.02	0.01	0.010	0.05	6.4	7.5	0.22	116	0.47	0.01
FGL076 03+50N		1.11	7.9	1.41	5.29	<0.05	<0.02	0.01	0.011	0.05	5.6	5.7	0.18	137	0.48	0.01
FGL076 04+00N		1.38	10.2	1.85	4.56	<0.05	<0.02	0.01	0.017	0.05	8.0	9.0	0.35	166	0.36	0.01
FGL076 04+50N		3.20	13.6	2.07	5.45	0.05	0.02	0.02	0.021	0.05	17.3	11.5	0.42	253	0.49	0.01
FGL076 05+50N		3.26	12.1	2.03	5.50	<0.05	<0.02	0.02	0.020	0.05	9.9	9.3	0.39	297	0.47	0.01
FGL076 06+00N		1.95	11.4	2.06	5.21	<0.05	0.02	0.02	0.020	0.05	10.3	9.9	0.41	226	0.39	0.01
FGL076 06+50N		1.06	13.9	1.56	4.48	<0.05	<0.02	0.03	0.016	0.04	8.9	7.7	0.31	111	0.32	0.01
FGL076 07+00N		0.93	77.7	10.10	5.05	0.06	0.04	0.10	0.022	0.02	21.6	5.0	0.17	3060	2.87	0.01
FGL076 07+50N		1.58	20.6	7.13	5.72	0.05	0.03	0.07	0.021	0.04	12.3	10.1	0.38	1970	0.74	0.02
FGL076 08+00N		1.63	12.7	2.19	5.36	<0.05	0.03	0.06	0.018	0.04	11.5	10.9	0.45	1240	0.26	0.01
FGL076 08+50N		1.52	14.1	1.88	5.39	<0.05	0.03	0.05	0.018	0.04	11.6	10.7	0.45	435	0.19	0.01
FGL076 09+00N		1.48	21.9	3.74	5.86	<0.05	0.04	0.06	0.019	0.04	15.7	9.7	0.39	7470	0.76	0.01
FGL076 09+50N		1.77	12.2	1.86	5.89	<0.05	0.03	0.09	0.020	0.04	12.2	11.5	0.47	355	0.15	0.02
FGL076 10+00N		1.69	13.3	2.01	5.29	<0.05	0.03	0.05	0.019	0.03	11.8	9.8	0.44	486	0.20	0.02
FGL076 10+50N		1.86	14.5	1.82	5.86	<0.05	0.04	0.05	0.019	0.04	12.3	11.4	0.47	543	0.22	0.02
FGL076 11+00N		2.32	23.1	5.44	5.48	0.05	0.04	0.07	0.019	0.04	14.5	10.9	0.37	1960	1.20	0.02
FGL076 12+00N		1.69	12.3	1.46	4.98	<0.05	<0.02	0.03	0.013	0.05	8.1	6.1	0.25	171	0.32	0.03
FGL076 12+50N		1.92	10.4	2.31	6.07	<0.05	0.02	0.02	0.017	0.05	11.0	12.1	0.53	330	0.46	0.01
FGL076 13+00N		3.24	14.1	2.11	5.98	<0.05	<0.02	0.04	0.019	0.06	10.8	10.1	0.50	368	0.46	0.01
FGL076 13+50N		2.11	14.2	2.98	8.10	<0.05	0.02	0.02	0.026	0.07	9.2	15.0	0.53	361	0.61	0.01
FGL076 14+00N		2.20	9.0	0.57	3.09	<0.05	<0.02	0.03	0.008	0.04	4.6	8.0	0.14	120	0.14	0.04
FGL076 14+50N		0.96	51.9	3.13	4.44	<0.05	0.03	0.08	0.016	0.02	12.9	4.7	0.24	588	1.67	0.02
FGL076 15+50N		0.65	46.4	1.70	2.44	<0.05	<0.02	0.09	0.008	0.02	5.3	1.8	0.07	691	0.52	0.02
FGL076 17+00N		0.92	23.2	2.85	8.62	<0.05	0.04	0.05	0.029	0.04	14.7	12.6	0.63	333	0.71	0.01
FGL076 17+50N		0.45	12.7	1.07	4.55	<0.05	<0.02	0.04	0.012	0.03	5.1	4.2	0.17	148	0.41	0.02
FGL076 18+00N		1.14	10.6	2.06	9.21	<0.05	0.02	0.02	0.018	0.04	8.0	9.9	0.36	276	0.78	0.01
FGL076 18+50N		1.25	17.8	2.80	8.38	<0.05	0.04	0.02	0.024	0.06	8.4	16.3	0.43	229	0.86	0.01
FGL076 19+00N		1.22	20.2	2.73	8.17	<0.05	0.07	0.02	0.028	0.06	9.3	15.2	0.58	323	0.69	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL075 20+50N		1.54	13.7	370	9.2	8.3	<0.001	0.01	0.27	3.8	0.3	0.6	31.0	<0.01	0.02	2.1
FGL075 21+00N		0.84	7.3	350	5.3	5.3	<0.001	0.01	0.26	2.1	0.2	0.3	17.8	<0.01	0.03	0.9
FGL075 21+50N		1.12	5.1	280	6.4	6.6	<0.001	0.01	0.19	2.3	<0.2	0.4	16.4	<0.01	0.02	1.0
FGL075 22+00N		0.95	12.9	710	6.7	5.1	<0.001	0.03	0.26	4.1	0.4	0.5	48.7	<0.01	0.01	1.1
FGL075 22+50N		0.75	7.6	450	5.2	5.8	<0.001	0.01	0.17	3.0	0.2	0.3	28.9	<0.01	0.01	1.2
FGL075 23+00N		0.92	10.2	650	7.3	6.2	<0.001	0.01	0.26	2.9	0.2	0.3	27.5	<0.01	0.01	2.1
FGL076 00+00		0.43	8.9	1460	6.6	19.4	<0.001	0.02	0.43	9.9	0.7	0.5	76.7	<0.01	0.01	3.4
FGL076 00+50N		1.27	9.4	390	8.4	11.9	<0.001	0.01	0.33	3.6	0.2	0.6	25.8	<0.01	0.03	1.7
FGL076 01+00N		0.93	6.6	410	5.5	9.9	<0.001	0.01	0.31	2.8	<0.2	0.4	38.5	<0.01	0.01	1.8
FGL076 01+50N		0.83	7.5	620	6.9	8.5	<0.001	0.03	0.31	5.0	0.4	0.4	76.8	<0.01	0.02	1.6
FGL076 02+00N		0.45	3.7	350	5.6	10.0	<0.001	0.01	0.58	3.2	0.3	0.3	47.7	<0.01	0.01	1.6
FGL076 02+50N		1.16	11.3	450	7.6	14.1	<0.001	0.01	0.51	4.0	0.3	0.5	15.1	<0.01	0.02	2.3
FGL076 03+00N		0.87	2.2	220	4.2	7.8	<0.001	0.01	0.19	1.5	<0.2	0.3	14.2	<0.01	0.02	0.4
FGL076 03+50N		0.88	1.4	210	4.4	9.0	<0.001	0.01	0.21	1.4	0.2	0.4	12.0	<0.01	0.01	0.3
FGL076 04+00N		0.71	8.2	460	4.5	6.7	<0.001	0.01	0.25	2.2	0.3	0.3	19.4	<0.01	0.02	0.6
FGL076 04+50N		0.98	12.3	410	6.6	8.2	<0.001	0.01	0.30	4.2	0.3	0.4	25.3	<0.01	0.01	2.1
FGL076 05+50N		0.74	6.2	780	5.3	8.2	<0.001	0.02	0.33	2.9	0.4	0.3	24.6	<0.01	0.01	1.1
FGL076 06+00N		0.94	8.0	800	6.0	7.6	<0.001	0.02	0.34	3.3	0.3	0.3	34.6	<0.01	0.01	1.9
FGL076 06+50N		0.70	6.0	770	4.4	6.0	<0.001	0.02	0.21	2.1	0.2	0.3	21.8	<0.01	0.01	0.5
FGL076 07+00N		0.61	7.3	1310	6.7	2.8	<0.001	0.15	1.06	2.1	1.0	0.2	58.0	<0.01	0.06	0.5
FGL076 07+50N		0.76	8.6	1070	15.4	8.4	<0.001	0.10	0.92	3.5	0.8	0.3	80.7	<0.01	0.02	1.0
FGL076 08+00N		0.68	6.6	1250	15.4	8.2	<0.001	0.08	0.80	3.4	0.5	0.3	81.2	<0.01	0.01	0.9
FGL076 08+50N		0.74	5.8	1130	14.3	7.1	<0.001	0.08	0.76	3.5	0.5	0.3	76.8	<0.01	0.01	1.0
FGL076 09+00N		0.68	9.6	1110	12.8	5.7	<0.001	0.08	0.87	3.6	0.7	0.3	77.6	<0.01	0.01	1.0
FGL076 09+50N		0.77	6.1	1190	15.3	6.6	<0.001	0.07	0.68	3.5	0.3	0.3	61.3	<0.01	<0.01	1.0
FGL076 10+00N		0.71	5.1	1170	16.2	5.1	<0.001	0.07	0.81	3.3	0.5	0.3	67.2	<0.01	0.02	1.0
FGL076 10+50N		0.76	6.1	1030	16.7	6.6	<0.001	0.08	0.87	3.7	0.4	0.3	69.2	<0.01	0.01	1.1
FGL076 11+00N		0.69	6.9	990	12.3	9.5	<0.001	0.10	2.12	4.0	0.8	0.3	121.5	<0.01	0.02	0.8
FGL076 12+00N		0.51	3.2	440	3.6	9.8	<0.001	0.02	0.32	2.6	0.3	0.3	26.6	<0.01	0.02	0.3
FGL076 12+50N		0.95	10.9	580	8.7	8.1	<0.001	0.01	0.81	3.5	0.2	0.4	21.7	<0.01	0.03	2.2
FGL076 13+00N		0.76	9.4	660	19.7	8.9	<0.001	0.01	3.06	3.6	0.2	0.4	25.9	<0.01	0.01	0.7
FGL076 13+50N		1.29	12.9	460	12.6	11.9	<0.001	0.01	3.19	3.9	0.2	0.5	19.9	<0.01	0.02	1.4
FGL076 14+00N		0.30	0.2	460	2.7	4.5	<0.001	0.05	0.16	0.9	<0.2	0.2	62.3	<0.01	<0.01	<0.2
FGL076 14+50N		0.55	3.1	1170	4.4	1.7	<0.001	0.15	0.69	2.0	0.6	0.2	65.8	<0.01	0.03	0.4
FGL076 15+50N		0.28	0.3	860	40.5	1.2	<0.001	0.10	0.40	0.5	0.3	<0.2	51.3	<0.01	0.03	<0.2
FGL076 17+00N		0.99	15.6	960	10.4	6.6	<0.001	0.02	0.36	6.3	0.4	0.5	51.0	<0.01	0.02	1.9
FGL076 17+50N		0.49	6.4	560	4.8	3.3	0.001	0.01	0.15	1.2	0.2	0.2	25.0	<0.01	0.02	0.2
FGL076 18+00N		1.36	8.3	330	8.5	8.2	0.001	<0.01	0.23	2.8	0.2	0.6	26.1	<0.01	0.01	1.4
FGL076 18+50N		1.63	17.1	370	12.5	9.2	<0.001	<0.01	0.42	3.2	0.3	0.5	16.0	<0.01	0.03	2.0
FGL076 19+00N		1.44	18.2	450	10.7	8.3	<0.001	<0.01	0.35	4.3	0.3	0.5	38.8	0.01	0.02	3.0

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL075 20+50N		0.067	0.10	0.80	61	0.20	4.69	51	1.2
FGL075 21+00N		0.048	0.05	0.33	41	0.16	2.55	31	<0.5
FGL075 21+50N		0.061	0.07	0.39	51	0.22	2.38	32	0.5
FGL075 22+00N		0.049	0.07	6.26	61	0.19	7.33	45	1.0
FGL075 22+50N		0.049	0.06	1.16	44	0.13	5.14	35	<0.5
FGL075 23+00N		0.054	0.06	0.52	44	0.15	4.10	50	1.1
FGL076 00+00		0.052	0.12	0.61	60	0.05	12.55	111	0.6
FGL076 00+50N		0.049	0.09	0.35	60	0.16	3.03	56	0.5
FGL076 01+00N		0.052	0.06	0.29	43	0.10	3.27	58	0.6
FGL076 01+50N		0.035	0.06	0.57	43	0.13	9.60	60	0.9
FGL076 02+00N		0.018	0.08	0.31	33	0.08	6.10	59	<0.5
FGL076 02+50N		0.061	0.09	0.32	61	0.16	3.61	73	1.0
FGL076 03+00N		0.064	0.05	0.23	42	0.11	2.10	33	<0.5
FGL076 03+50N		0.057	0.05	0.21	41	0.12	1.51	34	<0.5
FGL076 04+00N		0.058	0.06	0.31	44	0.12	3.32	46	<0.5
FGL076 04+50N		0.055	0.09	0.52	47	0.14	8.78	54	0.5
FGL076 05+50N		0.047	0.09	0.36	43	0.10	4.08	67	<0.5
FGL076 06+00N		0.060	0.08	0.42	45	0.12	4.26	65	1.0
FGL076 06+50N		0.053	0.07	0.42	35	0.13	4.02	45	<0.5
FGL076 07+00N		0.032	0.08	1.04	212	0.14	14.45	74	1.4
FGL076 07+50N		0.046	0.08	1.97	61	0.11	9.57	86	1.2
FGL076 08+00N		0.058	0.06	1.71	45	0.07	8.37	101	1.1
FGL076 08+50N		0.060	0.06	1.58	47	0.08	7.60	83	1.1
FGL076 09+00N		0.055	0.09	1.87	48	0.11	10.20	110	1.3
FGL076 09+50N		0.062	0.07	1.55	47	0.27	7.60	91	1.1
FGL076 10+00N		0.057	0.07	1.83	50	0.40	8.15	88	1.2
FGL076 10+50N		0.060	0.07	1.88	46	0.11	8.35	93	1.2
FGL076 11+00N		0.046	0.09	3.11	70	0.11	12.75	86	1.6
FGL076 12+00N		0.052	0.06	0.38	38	0.09	5.04	33	<0.5
FGL076 12+50N		0.076	0.07	0.37	58	0.15	3.84	56	0.9
FGL076 13+00N		0.070	0.10	0.60	52	0.11	5.57	59	<0.5
FGL076 13+50N		0.089	0.09	0.42	71	0.15	3.99	61	0.8
FGL076 14+00N		0.020	0.06	0.70	12	0.05	2.61	18	<0.5
FGL076 14+50N		0.044	0.07	0.89	64	0.08	8.56	28	1.4
FGL076 15+50N		0.021	0.06	0.93	45	<0.05	2.48	42	0.6
FGL076 17+00N		0.067	0.06	2.08	67	0.18	9.58	59	1.2
FGL076 17+50N		0.044	0.04	0.38	32	0.10	2.28	22	<0.5
FGL076 18+00N		0.081	0.07	0.38	60	0.12	2.63	40	0.9
FGL076 18+50N		0.097	0.07	0.37	70	0.23	2.92	50	1.5
FGL076 19+00N		0.100	0.07	0.55	63	0.21	3.20	58	2.8

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL076 19+50N		0.84	0.0009	0.03	1.71	6.7	<0.02	<10	160	0.40	0.09	0.33	0.06	20.2	7.3	20
FGL076 20+00N		0.88	0.0004	0.03	1.84	7.1	<0.02	<10	160	0.32	0.11	0.25	0.06	15.20	8.1	21
FGL076 20+50N		0.74	0.0014	0.07	1.89	6.5	<0.02	<10	190	0.30	0.12	0.61	0.11	16.10	8.1	24
FGL076 21+00N		0.80	0.0005	0.11	1.58	3.8	<0.02	<10	160	0.48	0.07	0.44	0.07	15.80	5.6	12
FGL076 21+50N		0.65	0.0008	0.12	1.46	3.3	<0.02	<10	170	0.50	0.06	0.71	0.07	15.85	4.1	13
FGL076 22+00N		0.78	0.0013	0.03	1.85	11.0	<0.02	<10	200	0.49	0.10	0.44	0.05	25.9	7.0	25
FGL076 22+50N		0.78	0.0009	0.14	1.50	7.3	<0.02	<10	320	0.41	0.08	0.87	0.06	19.10	7.3	22
FGL076 23+00N		0.41	0.0015	0.11	1.18	6.0	<0.02	<10	300	0.35	0.08	0.81	0.13	21.6	5.9	15
FGL077 00+00		0.51	0.0005	0.07	1.29	4.4	<0.02	<10	260	0.28	0.41	0.78	0.12	13.25	5.6	17
FGL077 00+50S		0.64	0.0003	0.02	0.97	4.9	<0.02	<10	70	0.13	0.08	0.22	0.06	8.99	4.1	22
FGL077 01+00S		0.74	0.0014	0.09	1.83	20.9	<0.02	<10	340	0.64	0.07	0.94	0.10	28.3	7.6	18
FGL077 02+00S		0.62	0.0005	0.14	1.71	4.9	<0.02	<10	130	0.62	0.09	0.78	0.15	19.00	5.6	15
FGL077 02+50S		0.76	0.0012	0.02	1.85	9.2	<0.02	<10	140	0.33	0.10	0.47	0.09	18.30	8.5	22
FGL077 03+00S		0.83	0.0073	0.03	1.38	8.3	<0.02	<10	80	0.20	0.14	0.18	0.07	15.90	5.1	20
FGL077 03+50S		0.80	0.0013	0.11	2.37	9.7	<0.02	<10	140	0.50	0.13	0.34	0.09	21.5	9.3	27
FGL077 04+00S		0.61	0.0012	0.13	2.17	7.2	<0.02	<10	300	0.58	0.10	0.74	0.10	28.7	7.5	18
FGL077 04+50S		0.61	0.0006	0.03	0.97	5.3	<0.02	<10	80	0.16	0.10	0.16	0.11	11.30	3.6	11
FGL077 05+00S		0.52	0.0015	0.73	1.93	10.8	<0.02	<10	440	0.67	0.07	0.58	0.16	55.3	7.0	11
FGL077 05+50S		0.57	0.0005	0.43	1.49	4.3	<0.02	<10	270	0.44	0.09	0.34	0.19	34.5	4.6	11
FGL077 06+00S		0.70	0.0016	0.08	1.52	4.6	<0.02	<10	220	0.45	0.12	0.41	0.10	30.8	7.0	24
FGL077 06+50S		0.65	0.0014	0.05	2.73	11.4	<0.02	<10	160	0.37	0.12	0.52	0.15	19.20	7.9	20
FGL077 07+50S		0.57	0.0006	0.03	1.41	6.8	<0.02	<10	120	0.31	0.09	0.20	0.05	18.80	5.9	18
FGL077 08+00S		0.75	0.0010	0.05	2.21	9.9	<0.02	<10	120	0.34	0.14	0.19	0.08	18.05	8.5	30
FGL077 08+50S		0.73	0.0009	0.22	2.20	10.7	<0.02	<10	220	0.82	0.09	0.44	0.06	46.1	10.2	26
FGL077 09+00S		0.50	0.0010	0.04	1.51	11.3	<0.02	<10	90	0.26	0.14	0.13	0.08	15.55	4.5	23
FGL077 09+50S		0.66	0.0019	0.06	2.17	12.1	<0.02	<10	170	0.38	0.13	0.26	0.12	24.4	9.1	28
FGL077 10+00S		0.62	0.0006	0.12	1.41	5.7	<0.02	<10	130	0.18	0.14	0.15	0.15	14.15	4.1	18
FGL077 10+50S		0.81	0.0017	0.10	2.65	21.2	<0.02	<10	200	0.52	0.14	0.17	0.16	23.5	11.1	32
FGL077 11+00S		0.62	0.0042	0.09	1.36	9.0	<0.02	<10	140	0.30	0.12	0.23	0.07	19.65	4.2	16
FGL077 12+00S		0.86	0.0030	0.05	1.58	6.9	<0.02	<10	180	0.29	0.13	0.37	0.04	19.70	6.4	23
FGL077 12+50S		0.69	0.0012	0.09	1.58	4.4	<0.02	<10	180	0.35	0.08	0.54	0.06	18.60	7.1	21
FGL077 13+00S		0.49	0.0008	0.07	1.14	3.5	<0.02	<10	140	0.24	0.06	0.38	0.05	15.25	5.1	17
FGL077 13+50S		0.51	0.0015	0.06	1.74	6.9	<0.02	<10	210	0.44	0.10	0.53	0.07	26.4	8.7	29
FGL077 14+00S		0.29	0.0047	0.07	1.15	6.7	<0.02	<10	160	0.39	0.07	0.36	0.10	19.00	3.9	16
FGL077 14+50S		0.42	<0.0001	0.16	1.77	11.3	<0.02	<10	380	0.57	0.11	0.54	0.71	32.1	5.0	29
FGL077 16+00S		0.73	0.0016	0.08	1.44	3.9	<0.02	<10	240	0.29	0.08	0.37	0.08	20.4	5.8	21
FGL077 16+50S		0.74	0.0009	0.08	1.97	7.4	<0.02	<10	440	0.25	0.07	0.52	0.06	16.20	12.6	22
FGL077 17+00S		0.45	0.0005	0.07	0.79	5.5	<0.02	<10	290	0.29	0.04	0.24	0.04	16.60	4.7	10
FGL077 17+50S		0.68	0.0016	0.04	1.21	115.5	<0.02	<10	330	0.33	0.07	0.25	0.10	20.4	6.0	16
FGL077 18+00S		0.67	0.0019	0.04	2.21	9.9	<0.02	<10	270	0.54	0.14	0.18	0.11	21.6	8.9	32

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL076 19+50N		1.03	9.7	2.05	6.10	<0.05	0.02	0.01	0.018	0.05	10.7	11.2	0.45	315	0.44	0.01
FGL076 20+00N		0.99	12.1	2.04	6.27	<0.05	0.02	0.01	0.018	0.04	7.4	10.7	0.40	529	0.50	0.01
FGL076 20+50N		0.99	18.8	2.10	7.71	<0.05	0.02	0.02	0.021	0.05	8.1	12.9	0.51	379	0.44	0.01
FGL076 21+00N		0.52	12.5	1.68	5.72	<0.05	0.02	0.03	0.016	0.04	9.3	7.3	0.30	270	0.30	0.02
FGL076 21+50N		0.44	15.3	1.16	4.46	<0.05	0.04	0.05	0.013	0.04	10.8	6.1	0.27	228	0.31	0.02
FGL076 22+00N		1.12	12.7	2.12	6.29	<0.05	0.04	0.02	0.019	0.04	13.5	12.0	0.51	306	0.48	0.01
FGL076 22+50N		0.72	15.5	1.79	5.24	<0.05	0.04	0.04	0.019	0.05	10.1	10.4	0.46	356	0.30	0.01
FGL076 23+00N		0.88	23.9	1.44	4.04	<0.05	0.03	0.05	0.014	0.05	15.4	7.2	0.28	386	0.35	0.02
FGL077 00+00		1.08	12.3	1.45	4.58	<0.05	0.02	0.03	0.013	0.04	7.8	7.5	0.31	388	0.31	0.02
FGL077 00+50S		0.83	7.3	1.69	6.35	<0.05	0.02	0.01	0.011	0.05	4.6	9.6	0.34	165	0.52	0.01
FGL077 01+00S		1.25	13.2	2.04	6.73	0.05	0.04	0.05	0.021	0.05	20.5	11.7	0.53	404	0.30	0.01
FGL077 02+00S		0.64	23.3	1.81	6.39	<0.05	<0.02	0.03	0.019	0.03	11.0	7.9	0.34	262	0.41	0.01
FGL077 02+50S		0.93	12.9	2.21	7.08	<0.05	0.04	0.03	0.020	0.05	8.4	11.8	0.49	293	0.47	0.01
FGL077 03+00S		0.90	8.8	2.00	7.05	<0.05	<0.02	0.01	0.015	0.04	8.3	8.5	0.31	200	0.67	<0.01
FGL077 03+50S		1.04	13.3	2.79	8.19	<0.05	0.04	0.02	0.024	0.05	11.4	13.2	0.51	348	0.71	0.01
FGL077 04+00S		2.17	15.7	2.10	7.39	<0.05	0.02	0.04	0.022	0.06	16.5	11.6	0.40	548	0.45	0.01
FGL077 04+50S		1.43	9.5	1.53	5.32	<0.05	<0.02	0.01	0.013	0.04	5.8	5.6	0.18	174	0.51	0.01
FGL077 05+00S		10.70	15.4	2.03	6.62	0.06	0.04	0.11	0.024	0.11	27.4	8.9	0.28	1220	0.67	0.02
FGL077 05+50S		7.66	25.6	1.45	6.09	<0.05	<0.02	0.04	0.018	0.08	13.8	7.8	0.19	393	0.51	0.02
FGL077 06+00S		2.48	15.9	1.87	5.14	<0.05	0.04	0.05	0.021	0.05	17.3	10.0	0.41	182	0.25	0.01
FGL077 06+50S		7.67	17.5	2.57	10.40	<0.05	0.02	0.02	0.023	0.10	8.8	15.2	0.51	402	0.72	0.02
FGL077 07+50S		1.71	12.2	1.82	4.91	<0.05	<0.02	0.01	0.016	0.05	9.9	8.2	0.32	191	0.46	0.02
FGL077 08+00S		1.63	15.2	2.92	7.64	<0.05	0.03	0.01	0.024	0.07	9.3	13.9	0.50	302	0.72	0.01
FGL077 08+50S		10.90	11.2	3.45	8.99	<0.05	0.02	0.04	0.036	0.06	28.9	14.0	0.56	734	0.48	0.01
FGL077 09+00S		1.37	9.4	2.77	7.72	<0.05	0.02	0.02	0.020	0.05	8.3	11.6	0.32	150	0.74	0.01
FGL077 09+50S		2.83	11.8	2.65	6.71	<0.05	0.02	0.04	0.026	0.07	13.0	16.1	0.42	244	0.64	0.01
FGL077 10+00S		1.12	13.1	1.72	6.34	<0.05	<0.02	0.02	0.014	0.05	7.4	7.2	0.23	171	0.63	0.01
FGL077 10+50S		1.80	15.1	2.93	7.62	<0.05	0.13	0.04	0.028	0.08	11.2	16.1	0.54	238	0.75	0.01
FGL077 11+00S		1.28	13.9	1.76	6.34	<0.05	<0.02	0.03	0.014	0.05	11.3	6.7	0.23	143	0.53	0.01
FGL077 12+00S		1.39	12.5	1.88	6.23	<0.05	0.02	0.02	0.018	0.05	10.5	10.9	0.48	220	0.44	0.01
FGL077 12+50S		0.97	16.0	1.76	5.49	<0.05	<0.02	0.03	0.017	0.05	9.5	8.6	0.42	230	0.30	0.02
FGL077 13+00S		0.74	12.8	1.46	4.15	<0.05	<0.02	0.03	0.011	0.03	8.1	6.1	0.34	156	0.26	0.02
FGL077 13+50S		1.08	14.8	2.34	5.93	0.08	0.03	0.03	0.023	0.04	13.3	10.9	0.59	247	0.43	0.01
FGL077 14+00S		0.84	17.9	1.87	4.04	0.06	0.02	0.05	0.014	0.03	9.8	5.6	0.23	148	0.31	0.02
FGL077 14+50S		1.49	33.4	1.64	5.70	0.08	<0.02	0.12	0.026	0.05	18.1	9.9	0.35	139	0.47	0.01
FGL077 16+00S		1.17	9.2	1.84	5.58	0.08	0.03	0.06	0.023	0.05	11.0	11.1	0.48	182	0.20	0.01
FGL077 16+50S		3.72	8.8	2.95	10.05	0.07	0.03	0.03	0.028	0.07	8.6	13.5	0.75	881	0.71	0.01
FGL077 17+00S		1.98	9.9	1.16	3.31	0.06	<0.02	0.03	0.013	0.04	8.3	5.1	0.22	231	0.32	0.02
FGL077 17+50S		3.62	7.7	1.96	5.34	0.08	<0.02	0.13	0.022	0.08	10.3	8.0	0.34	304	0.43	0.01
FGL077 18+00S		1.90	16.9	2.61	6.03	0.08	0.03	0.02	0.029	0.08	9.8	13.1	0.48	354	0.72	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL076 19+50N		0.84	12.5	460	8.4	7.1	<0.001	<0.01	0.24	3.1	0.4	0.4	25.5	<0.01	0.01	1.8
FGL076 20+00N		1.05	12.8	370	7.8	6.1	<0.001	<0.01	0.24	2.7	0.2	0.4	34.4	<0.01	0.02	1.3
FGL076 20+50N		1.11	12.9	460	8.3	5.8	<0.001	0.01	0.20	3.0	0.3	0.5	48.3	<0.01	0.02	0.9
FGL076 21+00N		0.57	7.8	610	4.6	4.2	<0.001	0.01	0.13	2.5	0.3	0.3	35.2	<0.01	0.01	0.6
FGL076 21+50N		0.48	6.9	770	3.6	3.1	<0.001	0.06	0.15	2.1	0.5	0.2	60.8	<0.01	0.02	0.5
FGL076 22+00N		1.03	14.7	380	8.2	5.5	<0.001	<0.01	0.25	3.6	0.3	0.4	41.5	<0.01	0.02	2.1
FGL076 22+50N		0.70	11.6	790	7.1	5.6	<0.001	0.04	0.34	2.6	0.4	0.3	107.0	<0.01	0.02	0.8
FGL076 23+00N		0.57	9.3	640	5.4	6.5	<0.001	0.04	0.22	2.0	0.5	0.2	94.7	<0.01	0.01	0.8
FGL077 00+00		0.67	8.7	560	5.1	5.4	<0.001	0.03	0.22	1.9	0.3	0.3	66.9	<0.01	0.02	0.5
FGL077 00+50S		1.22	8.2	140	4.7	8.0	<0.001	<0.01	0.20	1.8	<0.2	0.4	21.6	<0.01	0.01	0.9
FGL077 01+00S		0.72	11.3	720	7.1	5.5	<0.001	0.02	0.23	3.9	0.7	0.3	68.0	<0.01	0.01	1.5
FGL077 02+00S		0.57	9.0	790	6.8	4.4	<0.001	0.03	0.18	2.0	0.3	0.3	60.7	0.01	0.01	0.2
FGL077 02+50S		1.03	16.6	410	13.4	6.1	<0.001	<0.01	0.36	3.1	0.3	0.4	38.2	0.01	0.02	1.8
FGL077 03+00S		1.31	9.7	260	11.4	8.3	<0.001	<0.01	0.29	2.2	0.2	0.5	15.7	<0.01	0.03	1.2
FGL077 03+50S		1.29	15.9	470	17.0	8.4	<0.001	<0.01	0.37	3.9	0.3	0.5	32.5	0.01	0.02	2.2
FGL077 04+00S		0.73	11.4	640	18.9	8.8	<0.001	0.02	0.22	3.8	0.5	0.4	58.5	<0.01	0.02	0.7
FGL077 04+50S		0.71	5.8	430	11.9	6.8	<0.001	0.01	0.25	1.2	0.3	0.4	17.0	<0.01	0.02	0.3
FGL077 05+00S		0.43	8.3	890	17.2	16.6	<0.001	0.06	0.57	4.4	0.9	0.3	45.5	<0.01	0.04	1.1
FGL077 05+50S		0.49	7.3	520	23.3	13.9	<0.001	0.02	0.33	2.1	0.4	0.3	32.5	<0.01	0.01	0.4
FGL077 06+00S		1.13	12.9	820	11.4	6.2	<0.001	0.01	0.48	4.6	0.6	0.4	26.4	<0.01	0.02	3.1
FGL077 06+50S		1.42	13.2	620	8.6	8.5	<0.001	<0.01	0.29	3.3	0.3	0.5	48.0	0.01	0.02	1.8
FGL077 07+50S		0.73	12.0	400	4.9	6.6	<0.001	<0.01	0.30	2.7	0.3	0.3	18.3	<0.01	0.02	1.0
FGL077 08+00S		1.38	16.0	410	9.3	9.6	<0.001	<0.01	0.40	3.8	0.4	0.5	19.0	<0.01	0.02	2.3
FGL077 08+50S		0.68	14.3	940	14.7	9.4	<0.001	<0.01	1.02	8.5	0.5	0.6	27.6	<0.01	0.01	2.9
FGL077 09+00S		1.31	9.3	540	7.6	7.9	<0.001	0.01	0.30	2.1	0.2	0.5	14.2	<0.01	0.03	0.7
FGL077 09+50S		1.42	16.9	580	8.8	9.4	<0.001	<0.01	0.55	4.3	0.4	0.5	20.1	<0.01	0.03	2.0
FGL077 10+00S		1.12	7.6	450	6.2	9.0	<0.001	0.01	0.22	1.8	0.2	0.4	16.3	<0.01	0.02	0.8
FGL077 10+50S		1.27	22.1	310	17.5	11.0	<0.001	<0.01	0.62	4.2	0.3	0.5	18.0	<0.01	0.03	3.1
FGL077 11+00S		0.92	7.9	320	6.9	8.5	<0.001	0.01	0.32	2.1	0.2	0.4	18.4	<0.01	0.02	0.4
FGL077 12+00S		1.06	12.3	710	5.1	7.5	<0.001	<0.01	0.22	3.1	0.3	0.4	22.8	<0.01	0.02	1.3
FGL077 12+50S		0.60	11.7	740	4.2	6.6	<0.001	0.02	0.23	2.9	0.3	0.3	38.8	<0.01	0.02	0.6
FGL077 13+00S		0.54	9.5	670	2.8	3.8	<0.001	0.02	0.21	2.5	0.3	0.2	27.7	<0.01	0.02	0.6
FGL077 13+50S		1.08	15.0	810	5.9	5.7	<0.001	0.03	0.37	4.5	0.5	0.4	37.4	<0.01	0.02	1.6
FGL077 14+00S		0.63	7.8	890	4.3	3.1	<0.001	0.06	0.37	2.1	0.6	0.2	32.2	<0.01	0.03	0.4
FGL077 14+50S		0.83	13.7	980	7.8	5.5	<0.001	0.17	0.64	2.5	1.0	0.4	85.6	<0.01	0.03	0.2
FGL077 16+00S		1.01	10.3	760	6.5	6.9	<0.001	0.01	0.36	3.2	0.3	0.4	28.6	<0.01	0.02	2.2
FGL077 16+50S		0.74	10.4	1100	7.4	11.1	<0.001	0.02	0.28	3.9	0.2	0.5	37.8	<0.01	0.02	1.3
FGL077 17+00S		0.39	5.8	580	3.6	4.6	<0.001	0.02	0.24	1.5	0.5	0.2	22.4	<0.01	0.02	0.2
FGL077 17+50S		0.59	8.6	600	7.0	8.3	<0.001	0.01	0.71	2.5	0.2	0.4	21.2	<0.01	0.01	0.6
FGL077 18+00S		1.43	18.1	470	7.2	9.3	<0.001	0.01	0.40	3.9	0.4	0.5	16.8	<0.01	0.03	2.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL076 19+50N		0.051	0.05	0.43	50	0.14	5.86	44	0.8
FGL076 20+00N		0.076	0.07	0.40	54	0.16	2.88	40	0.8
FGL076 20+50N		0.064	0.06	0.70	60	0.22	3.99	49	0.6
FGL076 21+00N		0.045	0.04	1.31	48	0.11	6.37	34	0.5
FGL076 21+50N		0.023	0.04	2.19	25	0.09	8.25	32	1.4
FGL076 22+00N		0.060	0.06	0.99	54	0.17	7.10	46	1.2
FGL076 22+50N		0.041	0.04	2.97	43	0.39	6.37	40	1.1
FGL076 23+00N		0.027	0.04	3.02	32	0.09	11.55	33	0.8
FGL077 00+00		0.038	0.05	0.63	37	0.32	4.65	36	0.8
FGL077 00+50S		0.086	0.04	0.24	54	0.14	1.71	38	0.7
FGL077 01+00S		0.040	0.04	2.08	48	0.18	15.10	50	1.1
FGL077 02+00S		0.056	0.04	0.94	55	0.14	6.54	40	<0.5
FGL077 02+50S		0.066	0.05	0.41	56	0.16	3.31	50	1.4
FGL077 03+00S		0.075	0.07	0.33	60	0.36	2.45	35	0.5
FGL077 03+50S		0.090	0.08	0.55	69	0.17	4.84	56	1.5
FGL077 04+00S		0.037	0.05	1.35	54	0.14	12.20	49	0.5
FGL077 04+50S		0.057	0.05	0.32	43	0.14	1.68	30	<0.5
FGL077 05+00S		0.012	0.09	1.38	38	0.15	17.50	63	1.2
FGL077 05+50S		0.019	0.08	0.65	35	0.11	7.70	48	<0.5
FGL077 06+00S		0.054	0.10	1.61	50	0.17	13.25	44	1.2
FGL077 06+50S		0.081	0.06	0.49	62	0.15	3.22	58	0.8
FGL077 07+50S		0.058	0.06	0.39	44	0.13	5.03	36	<0.5
FGL077 08+00S		0.093	0.10	0.48	68	0.15	3.23	50	1.1
FGL077 08+50S		0.040	0.20	0.74	72	0.09	11.60	81	<0.5
FGL077 09+00S		0.086	0.07	0.35	72	0.18	2.31	33	0.7
FGL077 09+50S		0.063	0.09	0.46	57	0.18	6.48	48	0.7
FGL077 10+00S		0.071	0.07	0.31	50	0.17	2.10	33	0.6
FGL077 10+50S		0.088	0.09	0.45	66	0.18	4.00	63	4.6
FGL077 11+00S		0.068	0.07	0.39	53	0.18	4.22	28	<0.5
FGL077 12+00S		0.078	0.07	0.50	50	0.40	5.23	42	0.5
FGL077 12+50S		0.075	0.06	0.54	46	0.12	5.57	42	<0.5
FGL077 13+00S		0.064	0.04	0.38	37	0.09	4.73	33	0.5
FGL077 13+50S		0.093	0.07	0.79	58	0.21	7.24	51	1.0
FGL077 14+00S		0.057	0.06	0.83	52	0.13	5.24	32	0.7
FGL077 14+50S		0.045	0.12	1.20	61	0.18	12.00	91	0.5
FGL077 16+00S		0.065	0.08	0.54	45	0.21	4.02	64	1.0
FGL077 16+50S		0.058	0.09	0.28	69	0.13	3.51	109	0.8
FGL077 17+00S		0.033	0.07	0.30	27	0.25	4.61	38	<0.5
FGL077 17+50S		0.043	0.11	0.31	41	0.11	3.77	68	<0.5
FGL077 18+00S		0.076	0.10	0.58	57	0.27	3.69	58	1.0

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL077 18+50S		0.53	0.0010	0.03	1.50	10.0	<0.02	<10	120	0.24	0.12	0.14	0.07	14.70	6.0	22
FGL077 19+00S		0.88	0.0013	0.02	1.57	8.9	<0.02	<10	150	0.27	0.12	0.20	0.07	17.05	6.3	24
FGL077 19+50S		0.64	0.0006	0.02	1.60	8.0	<0.02	<10	260	0.34	0.10	0.19	0.03	17.40	6.6	24
FGL077 20+00S		0.76	0.0010	0.03	2.02	8.9	<0.02	<10	180	0.40	0.11	0.17	0.09	19.40	8.2	25
FGL077 20+50S		0.74	0.0020	0.03	2.16	10.0	<0.02	<10	270	0.61	0.12	0.20	0.08	21.7	9.2	28
FGL077 21+00S		0.81	0.0027	0.03	1.75	8.9	<0.02	<10	410	0.44	0.13	0.25	0.06	21.6	6.4	25
FGL077 21+50S		1.01	0.0009	0.01	1.52	7.8	<0.02	<10	350	0.42	0.09	0.26	0.07	20.3	6.6	22
FGL077 22+00S		0.76	0.0010	0.05	1.40	6.1	<0.02	<10	470	0.39	0.11	0.20	0.08	20.8	6.0	25
FGL077 22+50S		0.95	0.0007	0.05	1.73	6.1	<0.02	<10	550	0.61	0.07	0.51	0.08	27.4	6.9	21
FGL077 23+00S		0.40	0.0029	0.09	1.50	1.6	<0.02	<10	400	0.36	0.05	0.60	0.12	30.3	4.9	22
FGL078 00+00		0.51	0.0018	0.04	1.73	6.4	<0.02	<10	280	0.33	0.12	0.13	0.18	16.65	6.2	22
FGL078 00+50N		0.51	0.0013	0.02	1.24	6.3	<0.02	<10	400	0.30	0.10	0.16	0.08	22.5	6.1	21
FGL078 01+00N		0.53	0.0019	0.02	1.06	7.1	<0.02	<10	310	0.25	0.10	0.29	0.05	20.3	6.1	24
FGL078 01+50N		0.49	0.0021	0.02	1.29	5.4	<0.02	<10	390	0.33	0.08	0.39	0.05	19.85	7.1	19
FGL078 02+00N		0.44	0.0005	0.02	0.65	6.4	<0.02	<10	140	0.13	0.08	0.10	0.09	15.75	4.4	12
FGL078 03+00N		0.40	0.0007	0.02	1.60	8.2	<0.02	<10	130	0.28	0.12	0.13	0.10	16.20	7.2	22
FGL078 03+50N		0.44	0.0013	0.03	2.19	8.2	<0.02	<10	180	0.46	0.13	0.20	0.18	18.90	10.0	29
FGL078 04+00N		0.82	0.0034	0.03	1.53	11.1	<0.02	<10	250	0.26	0.15	0.19	0.05	19.10	4.9	25
FGL078 04+50N		0.38	0.0019	0.04	1.35	5.4	<0.02	<10	330	0.31	0.10	0.21	0.09	15.80	4.9	17
FGL078 05+00N		0.26	0.0017	0.16	1.38	2.9	<0.02	<10	560	0.38	0.06	0.46	0.05	15.65	5.1	11
FGL078 07+00N		0.94	0.0020	0.07	1.59	6.5	<0.02	<10	250	0.46	0.08	0.52	0.09	25.6	9.6	25
FGL078 07+50N		0.67	0.0013	0.23	1.56	3.8	<0.02	<10	270	0.35	0.09	0.40	0.07	20.4	6.7	24
FGL078 09+50N		0.67	0.0010	0.06	1.83	6.5	<0.02	<10	210	0.47	0.09	0.50	0.09	27.3	8.3	23
FGL078 10+00N		0.82	0.0015	0.06	2.13	8.6	<0.02	<10	240	0.56	0.11	0.65	0.08	35.0	10.1	28
FGL078 10+50N		0.96	0.0019	0.02	1.63	9.9	<0.02	<10	250	0.60	0.10	0.61	0.06	35.3	6.9	23
FGL078 11+00N		0.86	0.0013	0.02	2.19	14.1	<0.02	<10	290	0.46	0.17	0.58	0.04	25.2	11.1	20
FGL078 12+00N		0.95	0.0018	0.06	2.16	10.7	<0.02	<10	150	0.42	0.14	0.19	0.12	20.6	8.4	28
FGL078 12+50N		0.87	0.0009	0.03	1.99	10.5	<0.02	<10	180	0.61	0.10	0.19	0.08	26.0	8.4	26
FGL078 13+00N		0.89	0.0015	0.04	1.69	9.1	<0.02	<10	230	0.35	0.11	0.22	0.09	23.4	7.1	20
FGL078 13+50N		0.87	0.0012	0.02	1.69	7.1	<0.02	<10	240	0.69	0.09	0.27	0.04	37.6	6.7	24
FGL078 14+00N		0.72	0.0016	0.08	2.03	7.4	<0.02	<10	190	0.47	0.19	0.20	0.15	23.6	6.9	29
FGL078 14+50N		0.50	0.0009	0.02	1.98	9.9	<0.02	<10	110	0.31	0.16	0.16	0.08	17.85	5.5	25
FGL078 15+00N		0.62	0.0004	0.04	1.16	5.5	<0.02	<10	80	0.21	0.12	0.12	0.06	13.45	3.8	14
FGL078 15+50N		0.71	0.0018	0.05	1.79	6.8	<0.02	<10	140	0.28	0.12	0.34	0.06	20.3	6.8	22
FGL078 16+00N		0.91	0.0020	0.12	1.24	11.4	<0.02	<10	190	0.50	0.07	0.36	0.39	34.5	8.6	12
FGL078 16+50N		0.87	0.0010	0.04	2.69	7.5	<0.02	<10	190	0.72	0.11	0.48	0.07	28.1	10.2	21
FGL078 17+00N		1.15	0.0040	0.07	1.86	7.2	<0.02	<10	150	0.56	0.10	0.53	0.09	27.9	8.2	20
FGL078 18+50N		0.60	0.0003	0.04	1.26	3.0	<0.02	<10	60	0.31	0.08	0.35	0.04	10.10	4.5	7
FGL078 19+00N		0.75	0.0010	0.11	2.31	7.0	<0.02	<10	180	0.66	0.09	0.73	0.07	17.90	6.2	14
FGL078 19+50N		0.38	0.0013	0.21	2.13	5.3	<0.02	<10	350	0.77	0.08	1.13	0.19	28.3	5.5	12

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL077 18+50S		1.25	10.5	2.54	7.25	0.07	<0.02	0.01	0.017	0.06	7.2	9.8	0.37	253	0.95	0.01
FGL077 19+00S		1.00	12.1	2.29	6.74	0.08	0.02	0.01	0.019	0.06	8.6	10.3	0.41	233	0.79	0.01
FGL077 19+50S		0.93	11.0	1.97	4.95	0.06	<0.02	<0.01	0.021	0.06	8.9	9.6	0.40	191	0.51	0.01
FGL077 20+00S		1.29	12.5	2.44	6.54	0.08	0.02	0.01	0.022	0.08	9.2	12.5	0.42	281	0.66	<0.01
FGL077 20+50S		1.44	19.0	2.57	6.91	0.07	0.03	0.01	0.030	0.07	10.4	13.4	0.44	254	0.63	0.01
FGL077 21+00S		1.36	12.6	2.21	6.35	0.08	0.02	0.03	0.026	0.07	12.0	11.9	0.42	192	0.65	0.01
FGL077 21+50S		1.20	10.1	2.15	5.41	0.08	0.02	0.01	0.019	0.07	11.3	12.6	0.47	237	0.53	0.01
FGL077 22+00S		0.98	7.8	2.14	6.42	0.07	0.02	<0.01	0.020	0.08	11.4	11.1	0.43	305	0.50	0.01
FGL077 22+50S		1.70	14.0	2.28	6.45	0.09	0.02	0.01	0.024	0.10	14.3	12.0	0.52	453	0.41	0.01
FGL077 23+00S		0.80	10.0	1.29	5.95	0.09	0.02	0.05	0.021	0.06	18.3	9.0	0.42	191	0.14	0.01
FGL078 00+00		1.02	7.5	2.59	8.28	0.08	<0.02	0.01	0.021	0.07	8.7	14.0	0.40	318	0.76	<0.01
FGL078 00+50N		0.76	10.9	2.08	5.93	0.06	0.02	0.01	0.019	0.11	12.3	9.7	0.39	338	0.49	0.01
FGL078 01+00N		0.73	7.9	1.95	4.81	0.08	0.04	<0.01	0.015	0.09	10.5	11.8	0.46	263	0.51	0.01
FGL078 01+50N		0.72	8.4	2.17	5.66	0.08	0.02	0.01	0.020	0.11	10.5	10.1	0.54	415	0.35	0.01
FGL078 02+00N		0.59	5.1	1.56	5.12	0.06	<0.02	0.01	0.014	0.07	7.8	3.7	0.18	219	0.64	<0.01
FGL078 03+00N		0.92	13.0	2.22	6.55	0.08	0.02	<0.01	0.021	0.07	6.9	12.3	0.37	243	0.69	0.01
FGL078 03+50N		1.11	17.6	2.31	5.36	0.07	0.04	0.03	0.024	0.09	8.1	11.3	0.49	275	0.53	0.01
FGL078 04+00N		1.13	11.0	2.17	6.76	0.08	0.02	0.02	0.022	0.06	10.0	11.4	0.33	144	0.72	0.01
FGL078 04+50N		0.97	13.2	1.65	5.91	0.07	<0.02	0.01	0.015	0.08	8.6	7.1	0.30	238	0.62	0.01
FGL078 05+00N		0.81	10.4	1.26	4.65	0.08	<0.02	0.05	0.019	0.07	8.9	5.7	0.18	335	0.45	0.02
FGL078 07+00N		1.80	13.7	2.73	6.53	0.09	0.07	0.02	0.027	0.07	14.7	12.9	0.66	244	0.32	0.01
FGL078 07+50N		2.37	10.9	1.87	6.27	0.07	0.02	0.06	0.022	0.04	11.9	10.6	0.44	197	0.25	0.01
FGL078 09+50N		1.18	14.7	2.18	6.04	0.09	0.04	0.04	0.022	0.04	14.3	10.6	0.51	360	0.34	0.02
FGL078 10+00N		1.61	12.5	2.83	8.29	0.10	0.09	0.04	0.027	0.04	18.8	14.1	0.75	322	0.33	0.01
FGL078 10+50N		1.74	10.8	2.33	6.31	0.12	0.09	0.05	0.025	0.06	23.0	11.4	0.63	313	0.34	0.01
FGL078 11+00N		3.39	9.8	3.14	8.32	0.07	0.04	0.01	0.035	0.08	11.6	14.4	0.63	495	0.59	0.01
FGL078 12+00N		1.38	14.8	2.48	7.12	0.08	0.04	0.01	0.025	0.07	10.0	13.2	0.46	218	0.75	0.01
FGL078 12+50N		1.52	13.4	2.18	5.81	0.08	0.05	0.01	0.021	0.06	13.1	10.6	0.47	214	0.50	0.01
FGL078 13+00N		2.34	15.9	2.29	6.69	<0.05	<0.02	0.02	0.024	0.08	11.6	12.0	0.48	365	0.65	<0.01
FGL078 13+50N		2.99	9.5	2.10	5.81	0.07	0.04	0.01	0.018	0.04	29.0	11.6	0.46	258	0.46	0.01
FGL078 14+00N		1.56	13.6	2.44	8.10	0.06	0.02	0.02	0.025	0.06	11.5	11.4	0.40	555	0.86	0.01
FGL078 14+50N		1.51	20.4	2.82	8.63	0.05	<0.02	0.02	0.023	0.05	8.9	13.4	0.33	194	0.78	0.01
FGL078 15+00N		1.10	12.4	1.64	5.86	0.05	<0.02	0.01	0.015	0.04	6.6	7.6	0.21	143	0.57	0.01
FGL078 15+50N		2.33	10.4	2.52	8.26	0.06	<0.02	0.01	0.024	0.05	10.3	16.7	0.58	225	0.61	0.01
FGL078 16+00N		7.35	6.2	2.99	5.91	0.06	<0.02	0.04	0.037	0.06	13.4	6.9	0.28	1230	0.61	<0.01
FGL078 16+50N		6.94	10.6	2.98	8.96	0.09	0.07	0.01	0.032	0.05	13.2	20.9	0.78	529	0.38	0.02
FGL078 17+00N		4.14	11.8	2.55	5.66	0.10	0.05	0.02	0.025	0.07	13.9	11.9	0.69	497	0.57	0.03
FGL078 18+50N		1.31	7.7	1.70	4.99	0.07	0.02	0.02	0.010	0.03	4.4	4.5	0.19	209	0.28	0.02
FGL078 19+00N		2.69	12.4	1.82	7.04	0.06	<0.02	0.05	0.021	0.06	9.5	9.5	0.37	445	0.59	0.02
FGL078 19+50N		6.45	17.2	1.57	6.16	0.08	0.04	0.07	0.024	0.07	20.1	11.7	0.32	448	0.51	0.02

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL077 18+50S		1.20	11.2	380	6.1	7.7	<0.001	<0.01	0.39	2.3	0.3	0.5	14.0	<0.01	0.04	0.7
FGL077 19+00S		1.35	12.5	430	6.6	8.5	<0.001	<0.01	0.31	2.7	0.4	0.5	17.6	<0.01	0.03	1.3
FGL077 19+50S		0.98	14.7	370	6.0	6.3	<0.001	<0.01	0.33	2.6	0.4	0.4	17.6	<0.01	0.02	1.5
FGL077 20+00S		1.31	15.8	270	7.5	9.6	<0.001	<0.01	0.39	3.3	0.3	0.5	17.5	<0.01	0.02	2.0
FGL077 20+50S		1.33	18.2	330	7.3	8.8	<0.001	<0.01	0.38	3.9	0.3	0.5	22.5	<0.01	0.03	2.1
FGL077 21+00S		1.25	15.1	300	7.0	9.0	<0.001	<0.01	0.33	3.6	0.2	0.5	31.5	<0.01	0.02	2.2
FGL077 21+50S		0.87	15.0	330	5.9	7.2	<0.001	<0.01	0.36	3.3	0.4	0.4	27.9	<0.01	0.02	2.2
FGL077 22+00S		1.25	11.3	270	6.4	11.2	<0.001	<0.01	0.29	3.0	0.4	0.5	24.5	<0.01	0.03	1.6
FGL077 22+50S		0.88	11.9	680	5.4	9.9	<0.001	0.01	0.27	3.5	0.4	0.4	58.4	<0.01	0.02	1.6
FGL077 23+00S		0.75	9.3	1010	4.7	6.4	<0.001	0.03	0.18	4.5	0.7	0.4	60.2	<0.01	0.01	1.6
FGL078 00+00		1.43	10.7	300	6.9	8.9	<0.001	<0.01	0.31	2.9	0.3	0.6	14.6	<0.01	0.03	1.3
FGL078 00+50N		1.14	11.1	330	4.8	11.0	<0.001	<0.01	0.32	3.1	0.3	0.5	17.9	<0.01	0.02	1.7
FGL078 01+00N		1.20	12.6	210	5.9	9.4	<0.001	<0.01	0.26	3.0	0.2	0.5	29.3	<0.01	0.02	2.4
FGL078 01+50N		0.84	10.1	550	5.1	9.4	<0.001	<0.01	0.26	3.3	0.4	0.4	36.1	<0.01	0.01	1.8
FGL078 02+00N		0.98	6.2	220	4.8	10.2	<0.001	<0.01	0.38	1.7	0.2	0.4	14.0	<0.01	0.02	0.9
FGL078 03+00N		1.38	15.2	280	6.1	8.5	<0.001	<0.01	0.36	2.6	0.3	0.5	16.1	<0.01	0.02	1.6
FGL078 03+50N		1.34	23.2	320	5.9	9.6	<0.001	<0.01	0.42	3.9	0.4	0.5	20.5	<0.01	0.03	2.2
FGL078 04+00N		1.54	10.6	270	7.9	7.9	<0.001	<0.01	0.33	3.1	0.4	0.6	20.9	<0.01	0.02	2.1
FGL078 04+50N		0.79	8.8	380	4.8	12.7	<0.001	0.01	0.20	2.4	0.3	0.4	27.4	<0.01	0.02	0.5
FGL078 05+00N		0.49	6.0	530	3.2	8.1	<0.001	0.03	0.13	2.4	0.6	0.2	67.7	<0.01	0.02	0.3
FGL078 07+00N		1.12	13.8	890	6.2	9.0	<0.001	<0.01	0.46	4.7	0.7	0.5	34.1	<0.01	0.03	3.3
FGL078 07+50N		0.84	10.3	750	15.6	6.0	<0.001	0.02	0.56	3.9	0.4	0.4	30.2	<0.01	0.01	1.5
FGL078 09+50N		0.99	12.5	800	5.5	4.7	<0.001	0.01	0.40	4.7	0.4	0.4	33.0	<0.01	0.02	2.3
FGL078 10+00N		1.13	15.1	1020	6.8	6.3	<0.001	0.01	0.46	6.2	0.8	0.5	37.6	<0.01	0.03	3.6
FGL078 10+50N		0.88	12.4	970	4.9	7.1	<0.001	<0.01	0.50	5.5	0.5	0.5	36.8	<0.01	0.03	3.6
FGL078 11+00N		0.69	12.4	1050	6.2	9.5	<0.001	<0.01	0.47	5.8	0.4	0.6	36.0	<0.01	0.01	2.7
FGL078 12+00N		1.53	16.5	340	8.0	9.9	<0.001	<0.01	0.39	3.8	0.6	0.6	19.7	0.01	0.03	2.6
FGL078 12+50N		0.99	19.9	280	9.4	7.8	<0.001	<0.01	0.39	4.1	0.5	0.4	17.8	<0.01	0.02	2.8
FGL078 13+00N		0.98	12.8	400	5.9	10.3	<0.001	<0.01	0.47	3.2	0.2	0.5	19.4	<0.01	0.02	1.6
FGL078 13+50N		0.77	15.1	220	6.9	6.3	<0.001	<0.01	0.40	3.9	0.7	0.5	17.9	<0.01	0.02	3.3
FGL078 14+00N		1.65	12.1	360	9.5	11.0	<0.001	<0.01	0.38	4.0	0.4	0.7	20.2	<0.01	0.01	2.4
FGL078 14+50N		1.69	11.5	380	7.9	7.1	<0.001	<0.01	0.40	2.8	0.4	0.6	18.0	0.01	0.02	1.4
FGL078 15+00N		1.05	6.9	260	7.1	5.7	<0.001	<0.01	0.29	1.6	0.2	0.5	13.8	<0.01	0.02	0.6
FGL078 15+50N		1.22	10.8	760	8.5	8.2	<0.001	<0.01	0.22	3.3	0.3	0.6	20.7	<0.01	0.01	1.9
FGL078 16+00N		0.35	6.6	1130	24.5	8.9	<0.001	0.01	1.83	4.0	0.4	0.5	17.4	<0.01	0.01	2.8
FGL078 16+50N		0.88	13.8	770	8.4	6.9	<0.001	0.01	0.35	6.0	0.6	0.6	54.1	<0.01	0.01	2.8
FGL078 17+00N		0.96	12.2	710	6.7	7.6	<0.001	0.02	0.36	5.8	0.6	0.6	65.6	<0.01	0.01	2.6
FGL078 18+50N		0.44	4.4	560	2.6	3.0	<0.001	0.01	0.12	1.4	0.2	0.2	36.7	0.01	0.01	0.2
FGL078 19+00N		0.64	9.2	750	5.5	7.2	<0.001	0.02	0.20	2.6	0.4	0.4	71.9	0.01	0.01	0.3
FGL078 19+50N		0.65	9.0	920	7.7	13.1	<0.001	0.07	0.35	2.7	1.0	0.3	106.5	<0.01	0.01	0.4

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL077 18+50S		0.076	0.08	0.30	66	0.24	2.19	48	<0.5
FGL077 19+00S		0.083	0.08	0.38	61	0.18	2.83	48	0.6
FGL077 19+50S		0.049	0.07	0.36	45	0.22	2.75	42	<0.5
FGL077 20+00S		0.067	0.08	0.33	55	0.16	2.78	56	0.9
FGL077 20+50S		0.063	0.09	0.40	57	0.15	3.75	52	1.0
FGL077 21+00S		0.066	0.10	0.42	52	0.19	4.82	47	1.0
FGL077 21+50S		0.056	0.07	0.34	46	0.11	3.94	53	1.0
FGL077 22+00S		0.077	0.07	0.32	56	0.14	3.17	58	0.6
FGL077 22+50S		0.066	0.07	0.43	51	0.14	5.43	69	0.6
FGL077 23+00S		0.061	0.06	0.89	35	0.24	8.84	60	0.7
FGL078 00+00		0.054	0.08	0.26	62	0.15	2.76	59	0.5
FGL078 00+50N		0.072	0.07	0.35	49	0.13	4.85	62	1.0
FGL078 01+00N		0.092	0.07	0.38	47	0.26	3.55	48	1.3
FGL078 01+50N		0.086	0.06	0.30	48	0.09	4.30	73	0.8
FGL078 02+00N		0.058	0.06	0.21	45	0.18	1.95	45	<0.5
FGL078 03+00N		0.094	0.08	0.32	57	0.15	2.12	57	0.9
FGL078 03+50N		0.076	0.09	0.41	50	0.14	3.10	52	1.6
FGL078 04+00N		0.071	0.11	0.44	54	0.24	3.32	36	0.8
FGL078 04+50N		0.053	0.07	0.40	43	0.45	3.46	44	<0.5
FGL078 05+00N		0.022	0.07	0.45	27	0.09	6.00	29	<0.5
FGL078 07+00N		0.081	0.09	0.74	58	0.15	6.04	67	2.4
FGL078 07+50N		0.044	0.12	0.56	47	0.10	5.35	56	0.8
FGL078 09+50N		0.093	0.07	0.77	57	0.15	6.80	45	1.5
FGL078 10+00N		0.127	0.07	0.77	71	0.17	8.31	62	3.0
FGL078 10+50N		0.089	0.07	0.74	53	0.16	11.75	57	3.2
FGL078 11+00N		0.042	0.10	0.66	64	0.13	5.31	65	1.4
FGL078 12+00N		0.091	0.10	0.43	61	0.21	3.01	44	1.6
FGL078 12+50N		0.067	0.09	0.46	52	0.29	4.17	44	1.9
FGL078 13+00N		0.043	0.08	0.36	53	0.24	3.59	46	0.5
FGL078 13+50N		0.047	0.11	0.51	50	0.15	10.05	42	1.3
FGL078 14+00N		0.098	0.12	0.60	66	0.22	3.68	49	1.1
FGL078 14+50N		0.086	0.09	0.40	71	0.23	2.63	37	0.7
FGL078 15+00N		0.070	0.07	0.27	48	0.12	1.84	23	<0.5
FGL078 15+50N		0.085	0.10	0.42	67	0.29	3.76	48	0.6
FGL078 16+00N		0.014	0.26	0.54	53	0.10	4.72	135	<0.5
FGL078 16+50N		0.060	0.10	0.81	67	0.15	8.49	60	2.0
FGL078 17+00N		0.096	0.08	1.19	65	0.15	14.80	55	2.0
FGL078 18+50N		0.074	0.03	0.32	52	0.09	2.22	29	0.5
FGL078 19+00N		0.049	0.06	0.77	47	0.13	6.52	44	<0.5
FGL078 19+50N		0.022	0.10	2.59	34	0.16	16.95	69	1.1

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL078 20+00N		0.66	0.0060	0.02	2.00	13.6	<0.02	<10	140	0.32	0.10	0.45	0.09	13.85	6.5	14
FGL078 20+50N		0.65	0.0031	0.05	1.98	12.5	<0.02	<10	140	0.39	0.14	0.19	0.10	19.90	6.8	20
FGL078 21+00N		0.66	0.0008	0.02	1.73	21.2	<0.02	<10	100	0.34	0.13	0.24	0.05	17.05	5.6	20
FGL078 21+50N		0.61	0.0012	0.08	1.44	13.4	0.04	<10	140	0.46	0.07	0.85	0.06	21.6	6.1	14
FGL078 22+00N		0.60	0.0020	0.08	1.33	10.5	<0.02	<10	140	0.43	0.07	1.33	0.14	16.60	5.7	12
FGL078 22+50N		0.86	0.0009	0.02	3.03	16.8	<0.02	<10	160	0.66	0.12	0.30	0.08	17.45	11.3	44
FGL078 23+00N		0.95	0.0031	0.03	1.98	9.4	<0.02	<10	140	0.46	0.13	0.33	0.05	22.2	7.7	31

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CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL078 20+00N		0.92	9.6	2.28	8.10	0.05	0.02	0.03	0.019	0.06	6.8	14.7	0.41	292	0.56	0.01
FGL078 20+50N		1.23	14.0	2.44	7.75	0.07	0.03	0.02	0.019	0.06	9.8	12.5	0.41	295	0.82	0.01
FGL078 21+00N		1.01	9.3	2.28	8.06	0.06	0.06	0.01	0.018	0.05	8.9	14.6	0.38	203	0.65	0.01
FGL078 21+50N		1.20	11.1	1.74	6.88	0.08	0.03	0.07	0.018	0.04	10.7	9.2	0.42	333	0.27	0.02
FGL078 22+00N		1.30	11.5	1.39	5.09	0.08	0.04	0.06	0.016	0.04	10.1	8.6	0.37	476	0.30	0.02
FGL078 22+50N		1.53	17.6	3.22	10.45	0.07	0.07	0.02	0.033	0.07	8.6	20.2	0.87	404	0.60	0.01
FGL078 23+00N		1.23	11.4	2.38	7.98	0.06	0.04	0.01	0.022	0.05	11.5	13.2	0.54	251	0.61	0.01

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL078 20+00N		1.34	8.7	330	6.6	9.4	<0.001	<0.01	0.28	2.7	0.2	0.5	44.5	0.01	0.03	1.4
FGL078 20+50N		1.20	12.8	240	7.4	8.8	<0.001	<0.01	0.35	3.3	0.3	0.6	21.1	<0.01	0.02	2.0
FGL078 21+00N		1.54	11.2	250	6.6	8.3	<0.001	<0.01	0.29	2.9	0.2	0.6	20.8	<0.01	0.03	2.1
FGL078 21+50N		0.78	7.9	820	5.7	4.8	<0.001	0.03	0.32	3.1	0.5	0.3	72.0	<0.01	0.01	0.9
FGL078 22+00N		0.62	7.0	720	5.1	6.1	<0.001	0.06	0.33	2.3	0.5	0.3	104.5	<0.01	0.02	0.5
FGL078 22+50N		1.37	22.1	230	8.9	8.6	<0.001	0.01	0.44	4.5	0.2	0.6	30.0	<0.01	0.01	3.2
FGL078 23+00N		1.26	15.1	440	7.2	8.1	<0.001	<0.01	0.29	3.9	0.2	0.6	23.2	<0.01	0.03	2.7

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL078 20+00N		0.050	0.06	0.53	55	0.21	2.70	41	0.8
FGL078 20+50N		0.066	0.07	0.45	59	0.17	3.22	45	1.3
FGL078 21+00N		0.088	0.08	0.47	66	0.18	3.15	38	2.4
FGL078 21+50N		0.046	0.06	2.86	42	0.13	7.23	44	1.0
FGL078 22+00N		0.032	0.05	2.96	33	0.11	7.88	43	1.2
FGL078 22+50N		0.112	0.08	0.48	73	0.24	3.54	65	2.3
FGL078 23+00N		0.085	0.09	0.50	62	0.53	4.11	43	1.6

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164287

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: ME- MS41
Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
Applies to Method: LOG- 22 SCR- 41 WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Applies to Method: Au- ST43 ME- MS41

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To: TRIUMPH GOLD CORP.
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SUITE 1100
VANCOUVER BC V6E 3V6

CERTIFICATE WH17164289

Project: Freegold Mtn - Tinta Property
P.O. No.: 1005139- NOFREG- R1
This report is for 153 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.
The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL079 00+00		0.51	0.0003	0.02	2.17	17.8	<0.02	<10	260	0.43	0.09	0.32	0.09	20.2	10.0	22
FGL079 00+50N		0.39	0.0007	0.08	0.88	2.0	<0.02	<10	210	0.29	0.04	0.22	0.03	12.50	3.5	8
FGL079 01+00N		0.49	0.0006	0.02	1.02	3.8	<0.02	<10	110	0.18	0.08	0.18	0.05	10.65	5.6	13
FGL079 01+50N		0.59	0.0011	0.05	1.43	5.5	<0.02	<10	170	0.23	0.08	0.22	0.05	14.30	7.0	16
FGL079 02+00N		0.65	0.0013	0.11	1.61	3.0	<0.02	<10	550	0.60	0.06	0.56	0.05	23.1	8.1	20
FGL079 02+50N		0.42	0.0007	0.12	1.31	4.9	<0.02	<10	450	0.34	0.06	0.57	0.11	16.40	7.1	17
FGL079 03+00N		0.45	0.0009	0.09	1.62	5.0	<0.02	<10	440	0.44	0.05	0.89	0.08	21.2	8.7	23
FGL079 03+50N		0.40	0.0005	0.05	1.20	3.9	<0.02	<10	290	0.35	0.06	0.48	0.04	19.20	6.1	14
FGL079 04+00N		0.54	0.0011	0.09	1.96	7.7	<0.02	<10	390	0.55	0.10	0.54	0.11	30.4	7.0	27
FGL079 04+50N		0.54	0.0008	0.07	1.11	2.8	<0.02	<10	230	0.26	0.07	0.30	0.06	18.05	4.1	15
FGL079 05+00N		0.40	0.0008	0.12	1.38	4.7	<0.02	<10	360	0.34	0.07	0.47	0.07	19.55	5.4	16
FGL079 05+50N		0.42	0.0006	0.07	1.22	3.0	<0.02	<10	170	0.25	0.06	0.44	0.04	14.05	4.7	14
FGL079 06+00N		0.42	0.0010	0.13	1.72	15.2	<0.02	<10	230	0.41	0.08	0.52	0.08	28.8	7.7	23
FGL079 07+00N		0.76	0.0022	0.09	1.54	5.4	<0.02	<10	190	0.46	0.08	0.44	0.08	24.9	7.1	24
FGL079 07+50N		0.64	0.0022	0.10	2.24	9.3	<0.02	<10	270	0.74	0.10	0.60	0.04	39.3	9.8	29
FGL079 08+00N		0.65	0.0007	0.10	1.83	6.2	<0.02	<10	200	0.45	0.08	0.53	0.04	22.2	9.1	20
FGL079 08+50N		0.47	0.0047	0.08	1.78	8.1	<0.02	<10	290	0.51	0.10	0.50	0.04	25.4	7.1	27
FGL079 09+00N		0.39	0.0012	0.15	1.62	5.7	<0.02	<10	450	0.48	0.09	0.79	0.03	23.2	7.5	20
FGL079 09+50N		0.44	0.0006	0.09	0.99	3.0	<0.02	<10	310	0.32	0.03	0.45	0.02	15.35	4.2	7
FGL079 10+00N		0.54	0.0011	0.03	1.33	4.8	<0.02	<10	180	0.36	0.07	0.22	0.05	18.55	5.3	15
FGL079 10+50N		0.47	0.0002	0.06	0.78	2.7	<0.02	<10	100	0.17	0.06	0.17	0.02	9.16	3.0	9
FGL079 11+00N		0.66	0.0005	0.04	2.10	9.8	<0.02	<10	230	0.41	0.16	0.21	0.06	21.4	8.1	30
FGL079 11+50N		0.70	0.0048	0.03	1.83	8.4	<0.02	<10	250	0.45	0.09	0.25	0.06	32.4	7.8	19
FGL079 12+00N		0.63	0.0003	0.02	1.93	10.2	<0.02	<10	280	0.61	0.11	0.22	0.13	28.9	7.3	19
FGL079 12+50N		0.48	0.0005	0.09	1.00	18.8	<0.02	<10	160	0.44	0.06	0.17	0.04	22.4	3.7	10
FGL079 13+00N		0.53	0.0012	0.13	1.67	9.8	<0.02	<10	170	0.40	0.16	0.15	0.20	21.4	5.6	23
FGL079 13+50N		0.59	0.0011	0.15	1.40	6.2	<0.02	<10	100	0.32	0.11	0.15	0.10	12.20	4.1	14
FGL079 14+00N		0.56	0.0022	0.19	2.93	8.8	<0.02	<10	310	0.51	0.11	0.37	0.11	22.9	8.6	24
FGL079 14+50N		0.43	0.0001	0.09	0.67	1.4	<0.02	<10	80	0.13	0.05	0.20	0.04	7.32	2.5	6
FGL079 15+00N		0.52	0.0008	0.07	1.62	5.9	<0.02	<10	140	0.33	0.09	0.26	0.07	15.75	5.7	16
FGL079 15+50N		0.47	0.0011	0.09	2.31	7.1	<0.02	<10	190	0.49	0.12	0.33	0.07	23.1	7.9	21
FGL079 16+00N		0.58	0.0011	0.05	1.58	5.1	<0.02	<10	130	0.37	0.07	0.41	0.07	19.75	6.4	17
FGL079 16+50N		0.46	0.0005	0.09	1.11	2.9	<0.02	<10	100	0.24	0.07	0.36	0.09	9.80	4.0	11
FGL079 17+00N		0.65	0.0027	0.20	2.87	15.3	<0.02	<10	210	0.75	0.12	1.48	0.20	21.3	10.3	10
FGL079 17+50N		0.57	0.0017	0.05	1.39	8.6	<0.02	<10	130	0.41	0.10	0.50	0.09	26.3	6.7	19
FGL079 18+00N		0.55	0.0007	0.08	1.36	8.9	<0.02	<10	170	0.65	0.05	0.86	0.08	36.6	7.2	11
FGL079 18+50N		0.62	0.0010	0.06	1.28	6.6	<0.02	<10	180	0.32	0.09	0.68	0.06	22.9	6.3	17
FGL079 19+00N		0.64	0.0009	0.04	1.39	7.3	<0.02	<10	170	0.39	0.09	0.74	0.07	22.3	7.7	18
FGL079 19+50N		0.50	0.0019	0.05	2.07	8.7	<0.02	<10	150	0.64	0.07	0.69	0.06	28.8	8.0	25
FGL079 00+50S		0.36	0.0006	0.02	0.81	5.3	<0.02	<10	240	0.22	0.05	0.24	0.07	20.5	4.8	10

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL079 00+00		0.96	11.3	3.36	11.10	0.06	0.02	0.05	0.030	0.14	9.7	17.1	0.67	385	0.73	0.01
FGL079 00+50N		0.46	6.3	1.04	4.19	0.06	<0.02	0.02	0.008	0.06	6.8	3.7	0.15	165	0.30	0.02
FGL079 01+00N		0.69	7.1	1.65	6.76	0.05	<0.02	0.02	0.012	0.09	5.5	5.1	0.33	287	0.46	0.01
FGL079 01+50N		0.67	7.2	2.46	8.35	0.05	<0.02	0.01	0.018	0.08	7.2	7.7	0.51	258	0.68	0.01
FGL079 02+00N		1.83	15.4	2.00	6.23	0.08	0.03	0.05	0.019	0.06	15.1	10.0	0.48	318	0.40	0.02
FGL079 02+50N		4.33	10.8	2.24	5.22	0.07	0.04	0.04	0.019	0.04	10.5	7.8	0.32	393	0.36	0.01
FGL079 03+00N		3.05	14.5	2.44	7.01	0.06	0.03	0.05	0.020	0.04	13.4	10.6	0.54	336	0.31	0.01
FGL079 03+50N		2.64	10.3	1.56	5.10	0.06	0.02	0.04	0.014	0.04	10.5	7.7	0.32	412	0.36	0.02
FGL079 04+00N		3.24	15.0	2.42	7.96	0.07	0.03	0.06	0.026	0.06	15.2	15.0	0.57	407	0.37	<0.01
FGL079 04+50N		1.38	10.9	1.34	4.44	0.05	0.02	0.05	0.015	0.04	10.5	7.6	0.26	142	0.22	0.01
FGL079 05+00N		3.91	9.6	1.74	5.79	0.07	0.02	0.15	0.016	0.05	12.4	9.0	0.39	305	0.33	0.01
FGL079 05+50N		1.74	7.7	1.64	5.20	0.06	<0.02	0.04	0.012	0.04	8.0	7.2	0.34	202	0.25	0.02
FGL079 06+00N		1.85	11.8	3.21	6.62	0.07	0.03	0.09	0.022	0.04	15.7	11.1	0.45	319	0.33	0.01
FGL079 07+00N		1.58	16.6	2.18	6.18	0.07	0.03	0.04	0.018	0.04	13.8	9.8	0.42	328	0.79	0.02
FGL079 07+50N		2.34	16.3	2.90	8.74	0.08	0.03	0.04	0.028	0.06	21.6	15.6	0.67	332	0.52	0.01
FGL079 08+00N		2.15	11.8	2.37	7.62	0.06	<0.02	0.02	0.023	0.06	11.6	12.6	0.59	462	0.47	0.02
FGL079 08+50N		2.02	17.2	2.24	6.26	0.06	0.03	0.02	0.023	0.06	12.4	13.6	0.54	312	0.48	0.01
FGL079 09+00N		1.74	18.1	2.30	5.56	0.05	0.05	0.07	0.019	0.04	13.4	9.2	0.46	405	0.52	0.02
FGL079 09+50N		1.37	8.9	1.35	3.57	0.06	<0.02	0.03	0.011	0.04	9.4	4.1	0.15	307	0.29	0.03
FGL079 10+00N		1.53	9.0	1.53	4.81	0.06	<0.02	0.01	0.015	0.05	9.6	8.6	0.34	225	0.40	0.02
FGL079 10+50N		0.77	10.7	1.08	3.50	0.05	<0.02	0.01	0.009	0.04	4.6	3.7	0.12	83	0.29	0.02
FGL079 11+00N		1.35	14.5	2.58	7.27	0.06	0.05	0.01	0.023	0.10	10.9	14.7	0.51	314	0.86	0.01
FGL079 11+50N		1.28	11.0	2.16	5.54	0.07	0.03	0.02	0.022	0.10	16.2	11.1	0.46	378	0.53	0.01
FGL079 12+00N		2.29	16.8	2.12	6.85	0.06	<0.02	0.01	0.023	0.07	15.6	11.5	0.46	426	0.47	0.01
FGL079 12+50N		3.16	7.2	1.20	3.41	0.06	<0.02	0.09	0.011	0.05	14.4	4.1	0.13	176	0.35	0.02
FGL079 13+00N		1.99	16.1	2.47	6.85	0.06	0.02	0.02	0.022	0.05	10.4	12.2	0.28	191	0.79	0.01
FGL079 13+50N		1.23	9.7	1.71	5.89	0.06	<0.02	0.03	0.017	0.04	5.9	8.2	0.18	198	0.68	0.02
FGL079 14+00N		3.22	16.8	2.89	7.49	0.08	0.04	0.02	0.028	0.05	11.0	13.9	0.54	492	0.71	0.02
FGL079 14+50N		0.96	10.0	0.84	2.64	<0.05	<0.02	0.02	0.006	0.03	3.5	2.5	0.08	110	0.24	0.04
FGL079 15+00N		1.41	14.1	1.66	4.80	0.06	<0.02	0.02	0.017	0.04	7.8	9.2	0.32	219	0.49	0.02
FGL079 15+50N		1.48	14.0	2.40	6.71	0.07	0.03	0.02	0.023	0.06	11.5	11.1	0.45	323	0.63	0.02
FGL079 16+00N		0.85	12.7	1.86	4.71	0.07	<0.02	0.02	0.015	0.04	9.7	8.1	0.39	262	0.39	0.02
FGL079 16+50N		0.82	9.7	1.16	4.06	<0.05	<0.02	0.03	0.012	0.03	4.7	5.5	0.22	157	0.47	0.03
FGL079 17+00N		1.22	10.3	3.16	11.70	0.08	0.03	0.19	0.041	0.05	9.9	16.5	0.83	715	1.12	0.01
FGL079 17+50N		1.04	12.3	1.94	4.71	0.10	0.04	0.01	0.019	0.06	13.9	10.0	0.48	293	0.34	0.02
FGL079 18+00N		1.58	13.9	2.13	5.96	0.09	0.05	0.02	0.025	0.04	17.2	8.7	0.48	432	0.31	0.02
FGL079 18+50N		0.87	10.7	1.78	4.69	0.07	0.03	0.03	0.017	0.05	11.8	10.3	0.44	319	0.30	0.02
FGL079 19+00N		0.82	9.8	2.04	5.50	0.07	0.04	0.03	0.020	0.05	11.8	11.1	0.55	502	0.35	0.02
FGL079 19+50N		0.86	9.5	2.46	6.22	0.08	0.02	0.04	0.020	0.05	15.3	12.3	0.62	466	0.56	0.01
FGL079 00+50S		0.63	5.6	1.94	6.28	0.05	<0.02	0.01	0.024	0.08	10.7	3.2	0.21	193	0.59	0.01

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To: TRIUMPH GOLD CORP.
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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL079 00+00		0.94	12.6	710	6.8	14.4	<0.001	<0.01	0.44	4.2	0.4	0.6	25.3	<0.01	0.01	1.7
FGL079 00+50N		0.34	4.1	360	2.4	8.2	<0.001	<0.01	0.08	1.3	0.2	0.2	18.8	<0.01	0.01	<0.2
FGL079 01+00N		0.81	6.5	290	3.7	17.2	<0.001	<0.01	0.17	1.8	0.2	0.4	15.8	<0.01	0.01	0.4
FGL079 01+50N		0.97	7.9	350	4.8	12.1	<0.001	<0.01	0.28	2.9	<0.2	0.5	18.3	<0.01	0.02	1.0
FGL079 02+00N		0.60	10.6	950	3.7	7.2	<0.001	0.02	0.16	4.5	0.9	0.3	39.9	<0.01	0.01	0.9
FGL079 02+50N		0.57	8.3	750	8.1	8.4	<0.001	0.03	0.45	3.0	0.3	0.3	56.8	<0.01	0.01	1.0
FGL079 03+00N		0.64	10.2	950	7.5	6.0	<0.001	0.03	0.33	4.5	0.5	0.3	82.4	<0.01	0.02	1.0
FGL079 03+50N		0.58	7.5	630	3.8	8.2	<0.001	0.03	0.22	2.3	0.3	0.3	50.1	<0.01	0.02	0.5
FGL079 04+00N		0.91	12.8	920	6.9	11.0	<0.001	0.03	0.33	4.9	0.6	0.5	51.4	<0.01	0.02	1.4
FGL079 04+50N		0.66	7.6	610	4.8	5.7	<0.001	0.01	0.27	2.4	0.2	0.3	26.5	<0.01	0.02	1.0
FGL079 05+00N		0.68	8.3	760	7.9	11.5	<0.001	0.03	0.31	3.1	0.4	0.3	44.1	<0.01	0.02	0.8
FGL079 05+50N		0.64	7.2	610	5.7	5.8	<0.001	0.02	0.31	2.3	0.3	0.3	42.5	<0.01	0.01	0.5
FGL079 06+00N		1.05	11.0	1030	8.4	6.3	<0.001	0.04	0.46	4.0	0.9	0.4	36.7	<0.01	0.01	1.4
FGL079 07+00N		0.81	14.9	770	4.6	6.0	<0.001	0.01	0.44	4.1	0.5	0.4	33.8	<0.01	0.02	1.4
FGL079 07+50N		1.06	16.5	840	7.3	9.2	<0.001	<0.01	0.51	6.7	0.6	0.5	47.3	<0.01	0.03	3.0
FGL079 08+00N		0.85	11.9	600	5.5	10.8	<0.001	<0.01	0.40	3.8	0.4	0.4	48.7	<0.01	0.03	1.3
FGL079 08+50N		1.05	16.4	570	6.6	7.7	<0.001	<0.01	0.36	4.1	0.5	0.4	49.6	<0.01	0.02	1.9
FGL079 09+00N		0.73	10.9	950	5.2	4.5	<0.001	0.05	0.36	3.4	0.7	0.3	81.7	<0.01	0.02	0.9
FGL079 09+50N		0.33	4.8	530	2.2	3.6	<0.001	0.02	0.23	1.9	0.7	0.2	38.8	<0.01	0.02	0.3
FGL079 10+00N		0.81	9.5	270	4.8	6.7	<0.001	<0.01	0.29	2.5	0.3	0.3	20.1	0.01	0.01	1.5
FGL079 10+50N		0.53	4.6	300	2.9	5.0	<0.001	<0.01	0.12	1.2	0.2	0.2	15.4	<0.01	<0.01	0.4
FGL079 11+00N		1.49	16.9	230	8.6	12.3	<0.001	<0.01	0.35	3.6	0.3	0.7	19.5	<0.01	0.02	2.9
FGL079 11+50N		0.83	13.8	270	7.6	8.1	<0.001	<0.01	0.45	2.8	0.2	0.4	21.9	<0.01	0.02	3.2
FGL079 12+00N		0.90	11.9	280	8.7	9.1	<0.001	<0.01	0.43	2.9	0.3	0.5	22.3	<0.01	<0.01	3.0
FGL079 12+50N		0.40	5.4	360	3.7	4.9	<0.001	<0.01	0.21	1.5	0.3	0.2	14.2	<0.01	0.01	0.5
FGL079 13+00N		1.48	10.7	300	12.1	10.1	<0.001	<0.01	0.40	2.5	0.3	0.6	16.0	<0.01	0.01	1.7
FGL079 13+50N		0.83	6.6	340	6.9	7.0	<0.001	<0.01	0.23	1.6	0.3	0.4	17.8	<0.01	0.02	0.3
FGL079 14+00N		1.28	15.3	430	16.0	8.5	<0.001	<0.01	0.42	5.2	0.3	0.7	45.7	<0.01	0.01	2.2
FGL079 14+50N		0.26	3.3	300	2.0	3.6	<0.001	<0.01	0.10	0.8	0.2	0.2	28.1	<0.01	0.01	<0.2
FGL079 15+00N		0.84	10.1	380	5.1	5.9	<0.001	<0.01	0.24	2.3	0.5	0.4	30.3	<0.01	0.01	0.6
FGL079 15+50N		1.22	12.6	420	6.9	6.8	<0.001	<0.01	0.26	4.1	0.4	0.6	42.1	<0.01	0.01	2.0
FGL079 16+00N		0.71	11.1	530	4.8	5.2	<0.001	<0.01	0.25	3.1	0.3	0.4	38.2	<0.01	0.02	0.7
FGL079 16+50N		0.44	6.2	490	3.4	4.6	<0.001	0.02	0.17	1.1	<0.2	0.3	42.8	<0.01	0.01	<0.2
FGL079 17+00N		0.43	7.1	1810	31.1	6.3	<0.001	0.01	0.30	6.7	0.5	0.5	87.8	<0.01	0.05	1.3
FGL079 17+50N		1.09	13.7	950	6.8	7.2	<0.001	<0.01	0.32	3.3	0.5	0.5	28.5	<0.01	0.01	3.0
FGL079 18+00N		0.53	7.9	1000	4.4	3.9	<0.001	0.02	0.23	5.1	0.8	0.3	49.3	<0.01	0.01	1.6
FGL079 18+50N		0.90	10.9	840	5.2	6.0	<0.001	0.01	0.23	3.3	0.3	0.4	37.1	<0.01	0.01	1.8
FGL079 19+00N		0.93	10.8	1010	5.6	6.4	<0.001	0.02	0.28	3.4	0.5	0.4	41.1	<0.01	0.01	1.8
FGL079 19+50N		0.84	12.1	880	5.7	6.3	<0.001	0.01	0.22	4.0	0.4	0.4	57.3	0.01	0.02	1.9
FGL079 00+50S		0.53	5.5	320	4.5	15.6	<0.001	<0.01	0.17	2.7	0.3	0.4	22.8	<0.01	0.02	1.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL079 00+00		0.071	0.09	0.26	74	0.13	3.22	87	0.9
FGL079 00+50N		0.034	0.05	0.25	28	0.07	3.59	26	<0.5
FGL079 01+00N		0.094	0.07	0.24	50	0.09	1.85	40	<0.5
FGL079 01+50N		0.098	0.07	0.24	74	0.20	2.48	53	0.5
FGL079 02+00N		0.061	0.06	0.59	52	0.10	10.05	46	0.9
FGL079 02+50N		0.021	0.14	0.43	38	0.08	6.09	49	1.2
FGL079 03+00N		0.067	0.08	0.98	67	0.11	9.48	55	1.1
FGL079 03+50N		0.036	0.07	0.67	34	0.24	5.50	41	0.7
FGL079 04+00N		0.041	0.12	0.98	57	0.11	6.94	68	1.0
FGL079 04+50N		0.032	0.08	0.72	30	0.38	5.14	35	0.6
FGL079 05+00N		0.033	0.09	0.51	39	0.10	7.16	53	0.6
FGL079 05+50N		0.061	0.07	0.42	37	0.11	3.81	46	0.5
FGL079 06+00N		0.081	0.11	0.87	77	0.16	6.38	57	1.0
FGL079 07+00N		0.075	0.08	0.74	52	0.14	7.70	48	0.9
FGL079 07+50N		0.088	0.09	0.83	68	0.15	11.30	59	1.0
FGL079 08+00N		0.083	0.09	0.47	56	0.12	4.63	58	0.5
FGL079 08+50N		0.061	0.11	0.70	52	0.13	5.21	53	1.0
FGL079 09+00N		0.049	0.07	0.93	57	0.84	10.25	41	1.6
FGL079 09+50N		0.036	0.04	0.39	34	0.07	8.26	23	<0.5
FGL079 10+00N		0.045	0.07	0.33	36	0.11	3.22	34	<0.5
FGL079 10+50N		0.047	0.04	0.21	34	0.08	1.67	20	<0.5
FGL079 11+00N		0.097	0.11	0.46	65	0.17	3.31	48	1.9
FGL079 11+50N		0.040	0.07	0.38	43	0.15	3.60	50	1.1
FGL079 12+00N		0.040	0.08	0.38	48	0.15	3.30	57	0.6
FGL079 12+50N		0.029	0.08	0.38	31	0.08	4.72	29	<0.5
FGL079 13+00N		0.083	0.10	0.47	60	0.17	3.15	49	0.7
FGL079 13+50N		0.063	0.06	0.34	50	0.13	2.37	33	<0.5
FGL079 14+00N		0.096	0.11	0.66	73	0.13	5.48	68	1.3
FGL079 14+50N		0.041	0.04	0.30	27	0.06	2.07	20	<0.5
FGL079 15+00N		0.060	0.07	0.59	44	0.12	3.75	36	<0.5
FGL079 15+50N		0.097	0.10	0.62	64	0.13	5.35	49	1.0
FGL079 16+00N		0.080	0.07	0.52	49	0.74	5.34	44	<0.5
FGL079 16+50N		0.041	0.05	0.37	33	0.11	2.58	29	<0.5
FGL079 17+00N		0.032	0.04	0.63	68	0.10	5.44	101	0.6
FGL079 17+50N		0.079	0.08	0.64	45	0.19	5.69	53	1.4
FGL079 18+00N		0.035	0.04	1.27	47	0.09	14.30	62	1.3
FGL079 18+50N		0.055	0.06	0.70	41	0.41	6.11	51	0.9
FGL079 19+00N		0.062	0.06	0.74	47	0.23	6.82	57	1.1
FGL079 19+50N		0.055	0.05	1.18	58	0.22	7.28	59	0.5
FGL079 00+50S		0.025	0.04	0.19	43	0.14	3.19	58	<0.5

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL079 01+00S		0.42	0.0002	0.01	0.77	3.8	<0.02	<10	220	0.21	0.07	0.16	0.07	13.05	5.9	13
FGL079 01+50S		0.39	0.0011	0.03	1.52	4.2	<0.02	<10	340	0.32	0.07	0.24	0.10	18.55	7.6	20
FGL079 02+00S		0.48	0.0010	0.05	0.95	3.2	<0.02	<10	180	0.18	0.14	0.13	0.09	17.85	4.4	14
FGL079 02+50S		0.39	0.0009	0.03	1.89	8.5	<0.02	<10	310	0.36	0.12	0.17	0.17	19.00	6.8	24
FGL079 03+00S		0.55	0.0009	0.03	2.08	11.4	<0.02	<10	290	0.44	0.14	0.16	0.11	20.6	8.2	33
FGL080 00+00S		0.43	0.0010	0.05	2.47	7.5	<0.02	<10	240	0.81	0.12	0.48	0.07	23.1	7.4	21
FGL080 00+50S		0.25	0.0026	0.04	0.50	3.0	<0.02	<10	50	0.12	0.06	0.17	0.08	5.96	1.9	7
FGL080 01+00S		0.59	0.0040	0.05	1.66	8.2	<0.02	<10	120	0.41	0.13	0.26	0.05	21.9	5.1	21
FGL080 01+50S		0.37	0.0021	0.03	2.37	11.6	<0.02	<10	160	0.81	0.15	0.29	0.07	30.8	10.3	32
FGL080 02+00S		0.34	0.0007	0.06	1.63	5.4	<0.02	<10	110	0.42	0.08	0.15	0.09	13.45	5.7	16
FGL080 02+50S		0.68	0.0028	0.04	2.66	7.4	<0.02	<10	210	0.68	0.11	0.73	0.06	26.4	10.4	21
FGL080 03+00S		0.44	0.0029	0.05	2.30	8.3	<0.02	<10	180	0.63	0.12	0.34	0.08	20.4	7.2	23
FGL080 03+50S		0.35	0.0048	0.18	2.18	5.7	<0.02	<10	210	0.57	0.10	0.54	0.09	19.80	7.0	16
FGL080 04+00S		0.70	0.0014	0.18	1.93	5.7	<0.02	<10	320	0.56	0.23	0.52	0.10	19.35	7.0	19
FGL080 04+50S		0.35	0.0010	0.42	1.49	5.6	<0.02	<10	360	0.58	0.12	0.78	0.18	19.15	5.8	18
FGL080 05+00S		0.58	0.0007	0.09	1.72	13.4	<0.02	<10	170	0.42	0.21	0.31	0.20	21.3	10.3	19
FGL080 05+50S		0.39	0.0004	0.48	0.85	8.4	<0.02	<10	200	0.23	0.06	0.22	0.13	13.00	3.3	9
FGL080 06+00S		0.45	0.0017	0.08	1.46	28.7	<0.02	<10	360	0.66	0.08	0.49	0.09	43.4	8.6	18
FGL080 06+50S		0.53	0.0015	0.15	1.59	85.2	<0.02	<10	190	0.42	0.12	0.34	0.16	19.85	8.5	21
FGL080 07+00S		0.59	0.0014	0.10	2.06	12.6	<0.02	<10	340	0.75	0.15	0.30	0.10	30.6	7.8	29
FGL080 07+50S		0.51	0.0008	0.15	1.65	14.1	<0.02	<10	200	0.39	0.08	0.17	0.13	21.5	6.9	19
FGL080 08+00S		0.63	0.0016	0.05	1.86	17.6	<0.02	<10	150	0.37	0.12	0.19	0.10	18.40	8.7	24
FGL080 08+50S		0.43	0.0004	0.09	1.12	7.5	<0.02	<10	70	0.20	0.17	0.09	0.08	14.25	4.0	18
FGL080 09+00S		0.43	0.0008	0.05	0.91	24.2	<0.02	<10	280	0.41	0.06	0.33	0.03	23.6	5.0	15
FGL080 09+50S		0.57	0.0006	0.02	2.06	11.3	<0.02	<10	170	0.48	0.09	0.26	0.05	24.3	9.6	23
FGL080 10+00S		0.54	0.0013	0.04	2.10	9.5	<0.02	<10	230	0.61	0.13	0.27	0.04	24.1	8.7	32
FGL080 11+00S		0.62	0.0009	0.07	1.99	8.9	<0.02	<10	300	0.82	0.08	0.65	0.07	49.7	14.7	21
FGL080 11+50S		0.29	0.0008	0.04	0.87	2.2	<0.02	<10	120	0.19	0.05	0.32	0.03	12.95	6.0	10
FGL080 12+00S		0.60	0.0156	0.05	1.20	6.6	<0.02	<10	180	0.31	0.08	0.29	0.08	18.65	7.0	18
FGL080 18+00S		0.39	0.0032	0.04	1.32	8.9	<0.02	<10	200	0.24	0.10	0.43	0.07	16.60	6.0	19
FGL080 18+50S		0.39	0.0009	0.12	1.63	12.6	<0.02	<10	620	0.55	0.09	0.70	0.07	21.9	9.9	20
FGL080 19+00S		0.59	0.0012	0.04	2.50	9.8	<0.02	<10	250	0.72	0.13	0.37	0.05	21.7	10.0	33
FGL080 19+50S		0.45	0.0041	0.06	2.35	10.6	<0.02	<10	180	0.53	0.15	0.21	0.08	21.1	10.2	30
FGL080 20+00S		0.42	0.0014	0.03	2.32	9.4	<0.02	<10	160	0.45	0.11	0.26	0.11	19.15	10.1	30
FGL080 20+50S		0.59	0.0007	0.07	1.99	8.8	<0.02	<10	130	0.40	0.14	0.23	0.08	17.75	7.5	24
FGL080 21+00S		0.66	0.0019	0.02	1.77	6.9	<0.02	<10	240	0.46	0.09	0.36	0.06	18.15	8.5	19
FGL080 21+50S		0.84	0.0020	0.01	1.47	5.3	<0.02	<10	380	0.43	0.05	0.34	0.03	20.6	8.2	16
FGL080 22+00S		0.49	0.0003	0.02	1.07	7.2	<0.02	<10	280	0.50	0.06	0.21	0.06	28.8	8.0	10
FGL080 22+50S		0.43	0.0004	0.04	0.89	6.2	<0.02	<10	180	0.38	0.09	0.09	0.12	16.85	6.9	12
FGL081 00+00S		0.47	0.0013	0.13	2.20	25.9	<0.02	<10	410	1.30	0.08	0.77	0.06	42.8	7.9	25

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL079 01+00S		0.63	5.0	1.48	4.00	<0.05	<0.02	0.02	0.013	0.07	6.1	5.1	0.19	341	0.55	0.02
FGL079 01+50S		0.58	8.2	2.26	7.72	0.06	<0.02	0.01	0.022	0.12	9.1	11.0	0.60	461	0.57	0.01
FGL079 02+00S		0.57	8.1	1.57	6.79	0.05	0.02	0.01	0.012	0.07	9.6	5.1	0.26	205	0.57	0.01
FGL079 02+50S		0.88	16.1	2.36	6.54	0.07	<0.02	0.01	0.024	0.09	10.0	12.6	0.40	219	0.73	0.01
FGL079 03+00S		1.24	14.0	2.82	7.09	0.06	0.04	0.01	0.028	0.11	10.2	16.9	0.55	285	0.82	<0.01
FGL080 00+00S		1.55	14.9	2.14	8.14	0.07	0.03	0.04	0.023	0.06	16.9	13.7	0.39	421	0.66	0.01
FGL080 00+50S		0.42	6.4	0.94	3.27	<0.05	<0.02	0.02	0.006	0.03	3.3	3.1	0.09	87	0.35	0.02
FGL080 01+00S		1.08	11.8	1.92	6.68	0.08	<0.02	0.03	0.019	0.05	11.5	11.9	0.38	165	0.49	0.01
FGL080 01+50S		1.45	16.6	2.83	6.71	0.07	0.04	0.02	0.028	0.07	16.8	16.4	0.53	404	0.68	0.01
FGL080 02+00S		1.11	9.7	1.68	4.95	0.06	<0.02	0.02	0.018	0.04	6.5	8.8	0.25	308	0.52	0.02
FGL080 02+50S		1.43	11.2	2.65	9.38	0.06	0.02	0.01	0.033	0.05	13.1	16.3	0.68	714	0.73	0.02
FGL080 03+00S		1.38	12.4	2.28	7.21	0.07	0.04	0.01	0.026	0.06	10.4	13.5	0.50	309	0.57	0.01
FGL080 03+50S		1.64	10.2	2.33	7.90	0.06	<0.02	0.03	0.022	0.05	10.2	10.8	0.38	271	0.43	0.02
FGL080 04+00S		2.59	11.4	1.97	6.64	0.07	0.02	0.14	0.021	0.05	10.3	12.0	0.44	414	0.52	0.01
FGL080 04+50S		3.87	14.3	1.80	5.11	0.07	0.04	0.05	0.026	0.05	13.0	8.5	0.36	391	0.48	<0.01
FGL080 05+00S		3.56	10.7	2.66	5.68	0.06	0.02	0.01	0.032	0.06	10.3	14.6	0.33	1390	0.80	0.01
FGL080 05+50S		3.08	10.2	1.20	3.89	0.06	<0.02	0.06	0.013	0.05	8.3	5.2	0.16	149	0.28	0.01
FGL080 06+00S		3.70	10.3	2.34	5.68	0.09	0.02	0.05	0.026	0.07	35.0	12.8	0.52	662	0.40	<0.01
FGL080 06+50S		3.47	13.4	2.35	5.77	0.06	<0.02	0.09	0.025	0.07	9.9	12.3	0.43	345	0.52	0.01
FGL080 07+00S		2.49	14.5	2.48	7.10	0.08	0.03	0.03	0.029	0.06	22.0	15.4	0.46	259	0.72	<0.01
FGL080 07+50S		1.77	11.2	2.01	4.99	0.06	0.02	0.06	0.021	0.06	10.5	10.8	0.40	333	0.43	<0.01
FGL080 08+00S		1.36	16.3	2.62	6.62	0.06	0.04	0.02	0.027	0.05	8.7	16.1	0.51	298	0.60	0.01
FGL080 08+50S		1.26	8.5	2.03	7.50	0.05	<0.02	0.01	0.013	0.05	7.4	6.7	0.25	156	0.84	<0.01
FGL080 09+00S		1.19	7.7	1.49	3.73	0.06	<0.02	0.03	0.015	0.05	17.2	8.9	0.33	204	0.29	0.01
FGL080 09+50S		1.48	13.2	2.50	7.33	0.06	0.03	0.01	0.024	0.07	11.5	14.7	0.59	410	0.49	0.01
FGL080 10+00S		1.18	18.5	2.47	6.52	0.07	0.06	0.01	0.027	0.06	12.0	15.0	0.52	302	0.54	<0.01
FGL080 11+00S		1.53	12.5	3.72	9.26	0.09	0.04	0.03	0.029	0.04	23.9	15.4	0.71	578	0.40	0.01
FGL080 11+50S		0.66	6.9	1.40	3.95	0.06	<0.02	0.03	0.011	0.03	6.6	4.8	0.19	206	0.24	0.02
FGL080 12+00S		1.15	9.1	1.80	4.56	0.06	<0.02	0.05	0.015	0.04	10.1	9.0	0.36	207	0.35	0.01
FGL080 18+00S		0.91	12.7	1.92	5.83	0.05	<0.02	0.01	0.017	0.04	8.6	10.7	0.43	229	0.62	0.01
FGL080 18+50S		0.88	17.7	2.29	6.21	0.07	0.04	0.07	0.020	0.06	12.7	10.6	0.45	686	0.54	0.01
FGL080 19+00S		1.17	16.7	2.97	7.96	0.07	0.07	0.02	0.028	0.07	11.1	15.3	0.65	337	0.61	<0.01
FGL080 19+50S		1.11	19.8	2.50	6.14	0.07	0.06	0.01	0.022	0.07	9.0	13.7	0.57	262	0.51	<0.01
FGL080 20+00S		0.94	17.9	2.75	7.21	0.07	0.03	0.01	0.026	0.07	8.4	16.0	0.62	285	0.60	0.01
FGL080 20+50S		0.80	13.1	2.49	8.91	0.07	0.02	0.01	0.018	0.07	9.1	16.5	0.49	229	0.70	<0.01
FGL080 21+00S		0.54	14.0	2.37	8.05	0.06	<0.02	0.01	0.019	0.07	8.2	14.5	0.54	371	0.55	<0.01
FGL080 21+50S		0.38	5.6	2.37	8.75	0.05	<0.02	0.02	0.025	0.08	8.6	12.6	0.63	435	0.32	<0.01
FGL080 22+00S		0.36	8.8	2.64	4.67	0.05	<0.02	0.01	0.034	0.06	12.6	6.6	0.20	322	0.54	<0.01
FGL080 22+50S		0.96	8.2	2.19	4.96	<0.05	<0.02	0.02	0.026	0.09	7.7	5.4	0.18	455	0.68	<0.01
FGL081 00+00S		0.81	12.9	2.27	8.36	0.14	0.05	0.23	0.027	0.07	45.4	16.9	0.55	498	0.41	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL079 01+00S		0.44	6.5	340	3.8	9.5	<0.001	<0.01	0.27	1.2	<0.2	0.3	16.9	<0.01	0.02	0.2
FGL079 01+50S		0.86	10.8	400	3.8	17.9	<0.001	<0.01	0.21	3.2	0.4	0.5	20.5	<0.01	0.02	0.9
FGL079 02+00S		1.45	6.1	290	6.6	12.3	<0.001	<0.01	0.23	1.9	0.3	0.6	13.6	<0.01	0.02	1.3
FGL079 02+50S		1.18	15.0	430	7.0	9.8	<0.001	<0.01	0.36	3.1	0.2	0.5	17.8	<0.01	0.02	1.3
FGL079 03+00S		1.67	18.3	260	7.3	11.6	<0.001	<0.01	0.38	4.0	0.3	0.6	16.5	<0.01	0.03	2.7
FGL080 00+00S		1.11	11.9	380	8.2	9.5	<0.001	<0.01	0.17	3.9	0.4	0.5	46.1	0.01	0.03	2.1
FGL080 00+50S		0.30	3.4	280	2.3	3.6	<0.001	0.01	0.10	0.5	<0.2	0.2	14.3	<0.01	<0.01	<0.2
FGL080 01+00S		1.20	11.1	350	6.6	6.1	<0.001	<0.01	0.21	3.6	0.2	0.6	20.4	<0.01	0.01	2.3
FGL080 01+50S		1.60	18.7	560	8.3	10.1	<0.001	<0.01	0.34	4.7	0.6	0.6	23.0	0.01	0.02	3.6
FGL080 02+00S		0.96	8.5	450	4.4	6.6	<0.001	<0.01	0.17	2.5	0.3	0.3	14.8	0.01	0.01	0.8
FGL080 02+50S		1.09	12.3	620	6.9	7.0	<0.001	<0.01	0.24	6.1	0.4	0.5	60.0	0.01	0.01	2.1
FGL080 03+00S		1.32	14.7	490	6.3	10.0	<0.001	<0.01	0.28	4.0	0.3	0.5	29.9	<0.01	0.03	2.4
FGL080 03+50S		0.89	9.6	480	5.6	8.1	<0.001	0.01	0.26	3.7	0.5	0.4	43.4	<0.01	0.01	0.9
FGL080 04+00S		0.86	11.1	510	13.4	7.1	<0.001	<0.01	0.38	3.9	0.4	0.4	49.3	<0.01	0.02	1.2
FGL080 04+50S		0.69	10.7	740	13.3	7.5	<0.001	0.02	0.53	3.6	0.7	0.4	72.9	<0.01	0.02	1.1
FGL080 05+00S		0.91	10.7	500	22.6	9.4	<0.001	<0.01	0.78	3.3	0.3	0.4	28.0	<0.01	0.03	2.2
FGL080 05+50S		0.46	5.5	300	7.4	6.6	<0.001	<0.01	0.28	1.9	<0.2	0.3	20.6	<0.01	0.01	0.4
FGL080 06+00S		0.67	12.5	760	8.4	9.4	<0.001	<0.01	0.56	4.6	0.7	0.4	30.8	<0.01	0.01	3.3
FGL080 06+50S		0.96	13.9	510	10.3	10.8	<0.001	<0.01	0.69	3.3	0.3	0.4	28.4	<0.01	0.01	2.0
FGL080 07+00S		1.29	16.3	330	9.0	9.9	<0.001	<0.01	0.39	5.1	0.7	0.6	24.9	<0.01	0.02	3.1
FGL080 07+50S		0.66	13.6	200	24.7	9.2	<0.001	<0.01	0.70	3.0	0.2	0.4	15.8	<0.01	0.01	2.7
FGL080 08+00S		0.95	16.1	270	9.0	9.7	<0.001	<0.01	0.44	3.4	<0.2	0.5	19.6	<0.01	0.02	2.7
FGL080 08+50S		1.38	8.6	260	6.9	7.9	<0.001	<0.01	0.30	1.9	<0.2	0.6	9.9	<0.01	0.02	0.9
FGL080 09+00S		0.75	9.6	580	6.1	4.8	<0.001	<0.01	0.29	2.8	0.3	0.3	23.4	<0.01	0.01	2.0
FGL080 09+50S		0.93	14.9	370	9.6	9.0	<0.001	<0.01	0.48	3.9	0.4	0.5	22.9	<0.01	0.01	3.0
FGL080 10+00S		1.12	18.5	310	7.4	7.6	<0.001	<0.01	0.33	4.2	0.3	0.5	23.4	<0.01	0.02	3.9
FGL080 11+00S		0.91	12.8	1220	7.6	7.0	<0.001	<0.01	0.50	6.1	0.9	0.5	39.9	<0.01	0.01	3.4
FGL080 11+50S		0.44	5.3	730	3.0	3.7	<0.001	0.01	0.20	1.9	0.2	0.2	25.4	<0.01	0.01	0.6
FGL080 12+00S		0.77	9.0	740	4.9	5.5	<0.001	<0.01	0.25	2.9	0.3	0.3	18.2	<0.01	0.01	1.4
FGL080 18+00S		0.94	11.3	440	5.0	6.4	<0.001	<0.01	0.22	2.8	0.2	0.4	37.5	<0.01	0.02	1.2
FGL080 18+50S		0.68	12.9	790	5.6	6.4	<0.001	0.02	0.25	4.0	0.6	0.3	61.2	<0.01	0.01	1.0
FGL080 19+00S		1.36	20.1	450	7.0	9.8	<0.001	<0.01	0.27	4.6	0.5	0.6	30.6	<0.01	0.02	2.6
FGL080 19+50S		1.21	23.1	320	6.7	8.3	<0.001	<0.01	0.39	4.1	0.3	0.4	19.3	<0.01	0.02	2.8
FGL080 20+00S		1.21	21.1	320	6.6	9.6	<0.001	<0.01	0.29	4.0	<0.2	0.5	25.4	<0.01	0.02	2.1
FGL080 20+50S		1.44	14.0	340	7.6	11.5	<0.001	<0.01	0.25	3.2	0.2	0.6	24.8	<0.01	0.02	1.6
FGL080 21+00S		0.63	12.4	560	7.9	8.9	<0.001	<0.01	0.18	3.1	0.2	0.4	34.2	<0.01	0.01	1.3
FGL080 21+50S		0.34	8.9	600	7.1	6.1	<0.001	<0.01	0.11	3.0	0.3	0.3	24.2	<0.01	0.01	1.5
FGL080 22+00S		0.39	7.4	580	7.4	7.2	<0.001	<0.01	0.20	3.6	0.2	0.3	19.9	<0.01	0.01	1.8
FGL080 22+50S		0.75	7.0	400	6.0	9.4	<0.001	<0.01	0.35	3.2	<0.2	0.4	9.0	<0.01	0.02	1.0
FGL081 00+00S		0.68	13.0	700	7.7	6.6	<0.001	0.01	0.23	6.9	1.0	0.4	45.9	<0.01	0.03	3.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL079 01+00S		0.048	0.06	0.23	39	0.10	1.94	39	<0.5
FGL079 01+50S		0.081	0.07	0.31	53	0.08	3.00	78	<0.5
FGL079 02+00S		0.110	0.08	0.31	51	0.11	2.38	40	0.8
FGL079 02+50S		0.062	0.08	0.36	54	0.19	3.51	52	<0.5
FGL079 03+00S		0.098	0.11	0.44	65	0.20	3.58	59	1.8
FGL080 00+00S		0.038	0.09	0.74	58	0.21	5.25	43	0.9
FGL080 00+50S		0.036	0.02	0.19	32	0.11	1.11	23	<0.5
FGL080 01+00S		0.060	0.10	0.58	51	0.18	4.87	39	0.5
FGL080 01+50S		0.090	0.12	0.77	65	0.56	6.73	55	1.5
FGL080 02+00S		0.050	0.07	0.41	41	0.12	2.99	38	0.5
FGL080 02+50S		0.072	0.10	0.88	68	0.18	5.92	59	0.8
FGL080 03+00S		0.074	0.11	0.49	55	0.23	4.14	48	1.3
FGL080 03+50S		0.063	0.08	0.57	65	0.17	5.39	60	<0.5
FGL080 04+00S		0.042	0.09	0.93	50	0.15	5.56	52	0.8
FGL080 04+50S		0.021	0.12	0.86	40	0.18	9.54	52	0.7
FGL080 05+00S		0.031	0.15	0.55	51	0.12	4.15	92	0.6
FGL080 05+50S		0.032	0.06	0.38	33	0.08	4.33	37	<0.5
FGL080 06+00S		0.039	0.11	0.78	45	0.22	16.90	65	0.5
FGL080 06+50S		0.040	0.15	0.44	49	0.16	3.41	70	0.5
FGL080 07+00S		0.068	0.13	1.21	61	0.20	11.70	51	1.2
FGL080 07+50S		0.029	0.10	0.38	39	0.11	2.79	57	0.9
FGL080 08+00S		0.057	0.09	0.41	58	0.13	2.45	55	1.6
FGL080 08+50S		0.067	0.08	0.28	61	0.18	1.65	33	0.6
FGL080 09+00S		0.043	0.04	0.51	33	0.11	6.59	34	<0.5
FGL080 09+50S		0.059	0.08	0.41	53	0.12	3.90	63	1.1
FGL080 10+00S		0.078	0.09	0.50	57	0.25	3.96	51	2.4
FGL080 11+00S		0.082	0.07	0.80	75	0.13	12.90	72	1.5
FGL080 11+50S		0.054	0.04	0.40	39	0.07	3.28	30	<0.5
FGL080 12+00S		0.055	0.08	0.51	43	0.13	4.90	41	<0.5
FGL080 18+00S		0.057	0.07	0.35	50	0.26	2.88	40	<0.5
FGL080 18+50S		0.044	0.07	0.64	51	0.12	10.00	47	1.0
FGL080 19+00S		0.084	0.11	0.46	68	0.13	4.59	56	2.5
FGL080 19+50S		0.073	0.10	0.43	54	0.16	3.60	49	1.9
FGL080 20+00S		0.099	0.10	0.39	62	0.15	3.57	56	1.3
FGL080 20+50S		0.093	0.09	0.36	65	0.15	3.02	51	0.7
FGL080 21+00S		0.032	0.06	0.30	51	0.13	3.96	71	0.5
FGL080 21+50S		0.016	0.04	0.18	40	0.09	3.44	74	0.5
FGL080 22+00S		0.010	0.05	0.25	42	0.10	3.00	72	<0.5
FGL080 22+50S		0.029	0.06	0.23	43	0.10	2.87	63	<0.5
FGL081 00+00S		0.022	0.05	1.05	45	0.19	32.5	58	1.2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL081 00+50S		1.02	0.0018	0.01	1.92	12.4	<0.02	<10	160	0.47	0.10	0.33	0.06	20.7	7.8	24
FGL081 01+00S		0.65	0.0008	0.02	2.59	11.5	<0.02	<10	160	0.54	0.13	0.36	0.09	24.9	10.6	26
FGL081 01+50S		0.91	0.0008	0.02	1.65	8.9	<0.02	<10	120	0.50	0.11	0.26	0.06	26.3	7.0	20
FGL081 02+00S		0.74	0.0007	0.04	2.47	8.4	<0.02	<10	210	0.66	0.12	0.54	0.11	19.90	8.5	19
FGL081 03+00S		0.68	0.0015	0.06	2.68	7.4	<0.02	<10	200	0.64	0.09	1.08	0.08	19.20	8.0	16
FGL081 03+50S		0.56	0.0009	0.18	2.41	7.5	<0.02	<10	340	0.93	0.09	0.96	0.08	27.3	8.8	18
FGL081 04+00S		0.56	0.0016	0.25	1.27	6.0	<0.02	<10	370	0.65	0.10	0.92	0.15	36.4	10.5	15
FGL081 04+50S		0.34	0.0013	0.57	1.39	3.6	<0.02	<10	370	0.72	0.08	0.80	0.11	31.0	2.8	12
FGL081 05+50S		0.49	0.0016	0.17	2.62	33.3	<0.02	<10	570	1.04	0.07	0.84	0.05	36.3	8.9	17
FGL081 06+00S		0.80	0.0008	0.04	2.20	7.7	<0.02	<10	170	0.45	0.11	0.41	0.07	20.0	7.9	20
FGL081 06+50S		0.37	0.0008	0.12	1.33	5.6	<0.02	<10	240	0.36	0.10	0.48	0.08	18.35	7.7	16
FGL081 07+00S		0.69	0.0003	0.17	2.30	9.0	<0.02	<10	600	0.94	0.06	0.43	0.12	44.4	8.9	13
FGL081 07+50S		0.78	0.0007	0.02	2.07	10.3	<0.02	<10	180	0.43	0.11	0.18	0.09	24.5	9.6	24
FGL081 08+00S		0.76	0.0013	0.04	1.74	9.4	<0.02	<10	280	0.38	0.14	0.24	0.06	21.3	7.2	26
FGL081 08+50S		0.78	0.0007	0.10	1.80	9.7	<0.02	<10	180	0.51	0.10	0.36	0.06	22.3	8.5	20
FGL081 09+00S		0.89	0.0058	0.13	1.74	11.4	<0.02	<10	160	0.35	0.15	0.21	0.28	18.85	9.0	23
FGL081 10+00S		0.62	0.0010	0.07	1.79	16.7	<0.02	<10	340	0.48	0.08	0.67	0.06	28.2	7.4	19
FGL081 12+50S		0.40	0.0010	0.15	1.68	5.5	<0.02	<10	320	0.63	0.07	0.41	0.04	25.4	6.7	15
FGL081 13+50S		1.04	0.0021	0.03	1.55	6.7	<0.02	<10	250	0.46	0.08	0.38	0.06	23.0	8.3	20
FGL081 14+00S		0.43	0.0006	0.09	1.02	13.4	<0.02	<10	130	0.25	0.08	0.23	0.08	15.55	4.7	12
FGL081 14+50S		0.23	0.0016	0.11	1.88	13.9	<0.02	<10	290	0.44	0.08	0.68	0.06	25.1	7.9	20
FGL081 15+50S		0.39	0.0008	0.12	1.85	17.2	<0.02	<10	260	0.33	0.08	0.53	0.06	19.85	8.1	23
FGL081 16+00S		0.44	0.0019	0.19	2.06	7.8	<0.02	<10	330	0.64	0.09	0.70	0.12	28.8	11.7	31
FGL081 17+00S		0.66	0.0020	0.13	1.45	6.4	<0.02	<10	210	0.22	0.09	0.57	0.10	22.0	9.4	20
FGL081 17+50S		0.89	0.0016	0.12	1.62	10.1	<0.02	<10	250	0.34	0.10	0.46	0.10	24.6	9.2	21
FGL081 18+00S		0.40	0.0013	0.31	1.70	5.8	<0.02	<10	220	0.44	0.09	0.35	0.08	18.85	7.1	16
FGL081 18+50S		0.63	0.0005	0.08	1.09	2.7	<0.02	<10	150	0.27	0.07	0.17	0.03	10.90	3.9	9
FGL081 19+00S		0.80	0.0010	0.05	2.49	12.4	<0.02	<10	230	0.57	0.13	0.41	0.07	22.3	10.3	27
FGL081 20+00S		0.91	0.0010	0.04	1.89	11.0	<0.02	<10	190	0.36	0.14	0.29	0.06	20.4	9.0	27
FGL081 20+50S		0.72	0.0021	0.05	1.49	7.5	<0.02	<10	140	0.38	0.09	0.24	0.05	18.45	7.2	20
FGL081 21+00S		0.91	0.0012	0.04	2.32	14.0	<0.02	<10	250	0.55	0.12	0.38	0.06	22.5	12.6	31
FGL081 21+50S		0.40	0.0024	0.11	1.80	7.5	<0.02	<10	290	0.41	0.07	0.49	0.03	25.2	8.2	20
FGL081 22+00S		0.68	0.0019	0.12	2.15	6.8	<0.02	<10	600	0.59	0.09	0.63	0.03	25.3	9.0	29
FGL081 22+50S		0.44	0.0008	0.06	2.14	6.8	<0.02	<10	460	0.42	0.09	0.53	0.04	20.1	9.4	28
FGL082 00+00		0.38	0.0010	0.07	1.23	3.7	<0.02	<10	120	0.30	0.09	0.20	0.07	16.80	5.4	14
FGL082 00+50S		0.42	0.0033	0.03	1.98	10.7	<0.02	<10	110	0.30	0.11	0.20	0.11	18.60	12.5	29
FGL082 01+00S		0.40	0.0009	0.04	1.57	8.9	<0.02	<10	130	0.25	0.10	0.19	0.06	16.15	6.7	23
FGL082 01+50S		0.39	0.0017	0.06	2.15	9.3	<0.02	<10	140	0.46	0.12	0.21	0.06	19.80	8.3	29
FGL082 02+00S		0.33	0.0008	0.07	2.37	7.2	<0.02	<10	150	0.38	0.09	0.27	0.11	19.35	12.0	24
FGL082 02+50S		0.58	0.0010	0.05	1.87	6.7	<0.02	<10	250	0.46	0.07	0.37	0.04	21.0	8.6	25

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL081 00+50S		0.80	11.1	2.26	7.33	0.06	0.02	0.02	0.021	0.07	10.6	14.0	0.51	299	0.54	<0.01
FGL081 01+00S		0.89	12.5	3.02	8.70	0.07	0.04	0.01	0.027	0.09	12.8	20.1	0.57	422	0.60	<0.01
FGL081 01+50S		0.72	10.7	2.24	6.01	0.08	0.03	0.04	0.021	0.07	13.4	12.1	0.44	307	0.71	<0.01
FGL081 02+00S		1.01	12.0	2.38	10.30	0.09	0.06	0.01	0.020	0.07	10.9	16.5	0.58	453	0.63	0.01
FGL081 03+00S		2.25	9.2	2.20	10.75	0.08	0.02	0.01	0.023	0.06	10.1	14.1	0.64	401	0.43	0.01
FGL081 03+50S		5.87	15.1	2.42	8.74	0.09	0.04	0.04	0.031	0.06	20.3	16.8	0.62	529	0.41	0.01
FGL081 04+00S		3.99	10.4	1.98	4.83	0.08	0.04	0.06	0.019	0.07	25.4	8.5	0.36	1080	0.61	0.01
FGL081 04+50S		4.20	29.1	1.09	4.66	0.10	0.05	0.10	0.016	0.06	29.0	6.7	0.22	129	0.34	0.01
FGL081 05+50S		5.92	15.1	2.89	10.40	0.10	0.07	0.19	0.033	0.10	31.1	18.9	0.76	426	0.33	0.01
FGL081 06+00S		2.41	10.5	2.59	8.10	0.07	0.02	0.01	0.021	0.08	11.1	14.6	0.55	291	0.52	0.01
FGL081 06+50S		2.36	19.5	1.73	5.22	0.06	<0.02	0.03	0.018	0.04	9.8	9.6	0.35	421	0.47	0.02
FGL081 07+00S		4.50	9.8	2.65	8.87	0.08	0.03	0.03	0.032	0.10	24.3	20.0	0.69	607	0.30	0.01
FGL081 07+50S		1.86	17.6	2.59	6.56	0.08	0.04	0.01	0.022	0.06	10.0	14.1	0.58	329	0.60	<0.01
FGL081 08+00S		1.95	11.1	2.44	6.94	0.07	0.04	0.02	0.019	0.08	11.3	14.4	0.50	353	0.69	0.01
FGL081 08+50S		4.19	11.3	2.56	6.33	0.05	0.02	0.01	0.027	0.09	10.8	11.1	0.45	484	0.67	0.01
FGL081 09+00S		4.22	9.6	3.00	8.93	0.07	0.03	0.02	0.026	0.10	8.8	12.4	0.53	569	0.87	<0.01
FGL081 10+00S		1.13	15.3	2.14	7.36	0.08	0.05	0.09	0.026	0.05	16.5	12.1	0.47	359	0.34	0.02
FGL081 12+50S		1.33	13.3	1.69	5.54	0.10	<0.02	1.54	0.018	0.06	17.1	8.1	0.27	252	0.44	0.02
FGL081 13+50S		3.27	8.5	2.42	7.11	0.07	<0.02	0.01	0.024	0.07	11.9	13.4	0.57	339	0.45	0.01
FGL081 14+00S		4.76	10.9	1.46	5.44	0.06	<0.02	0.04	0.014	0.05	8.1	6.0	0.24	211	0.42	0.02
FGL081 14+50S		1.64	12.1	2.13	7.33	0.11	0.02	0.06	0.027	0.10	14.1	13.0	0.58	306	0.38	0.02
FGL081 15+50S		1.73	10.0	2.11	7.04	0.06	0.03	0.10	0.020	0.05	10.7	11.7	0.54	289	0.34	0.02
FGL081 16+00S		3.68	17.8	2.69	8.52	0.09	0.05	0.09	0.027	0.05	16.1	16.5	0.86	433	0.32	0.01
FGL081 17+00S		5.39	9.8	2.43	7.52	0.08	0.02	0.04	0.019	0.10	11.4	11.7	0.74	401	0.45	0.01
FGL081 17+50S		4.13	17.8	2.42	7.41	0.07	0.02	0.04	0.021	0.14	12.5	13.7	0.64	279	0.46	0.01
FGL081 18+00S		3.28	17.7	1.85	6.10	0.08	<0.02	0.09	0.018	0.07	12.0	8.7	0.27	384	0.53	0.02
FGL081 18+50S		0.88	10.9	1.02	3.78	0.06	<0.02	0.03	0.011	0.04	5.7	4.5	0.13	167	0.30	0.03
FGL081 19+00S		1.58	16.8	2.88	9.05	0.08	0.03	0.02	0.029	0.08	11.2	17.9	0.65	399	0.65	0.01
FGL081 20+00S		1.07	14.5	2.68	8.18	0.07	0.03	0.01	0.026	0.07	10.6	15.1	0.60	341	0.83	0.01
FGL081 20+50S		0.92	14.9	1.92	5.50	0.07	0.02	0.01	0.017	0.06	8.4	10.2	0.43	241	0.46	0.01
FGL081 21+00S		1.14	17.3	3.05	8.33	0.09	0.04	0.02	0.026	0.07	11.1	15.7	0.78	471	0.63	0.01
FGL081 21+50S		0.71	12.5	2.23	7.13	0.12	0.03	0.06	0.020	0.07	14.9	9.6	0.59	396	0.28	0.02
FGL081 22+00S		1.07	20.2	2.50	7.65	0.13	0.05	0.09	0.025	0.07	16.3	12.0	0.57	295	0.31	0.01
FGL081 22+50S		1.06	13.7	2.46	7.85	0.11	0.03	0.04	0.023	0.08	11.4	11.4	0.55	475	0.42	0.01
FGL082 00+00		0.97	12.4	1.55	5.30	0.10	<0.02	0.01	0.011	0.05	8.8	5.7	0.25	270	0.40	0.02
FGL082 00+50S		0.90	14.0	3.08	8.71	0.11	0.04	0.01	0.021	0.09	8.6	13.1	0.65	402	0.69	0.01
FGL082 01+00S		0.96	13.3	2.13	5.98	0.10	0.02	<0.01	0.018	0.06	8.5	11.6	0.42	178	0.53	0.01
FGL082 01+50S		1.10	14.5	2.56	7.56	0.11	0.03	0.01	0.023	0.07	10.8	14.7	0.49	230	0.66	0.01
FGL082 02+00S		0.94	11.0	3.08	9.77	0.12	0.02	0.01	0.024	0.10	9.7	14.8	0.76	564	0.55	0.01
FGL082 02+50S		0.83	13.2	2.29	6.63	0.12	<0.02	0.01	0.019	0.07	11.3	10.7	0.54	355	0.48	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL081 00+50S		1.16	15.7	510	7.1	7.9	<0.001	<0.01	0.24	3.6	0.2	0.5	30.3	<0.01	<0.01	2.2
FGL081 01+00S		1.30	15.4	660	9.8	10.3	<0.001	<0.01	0.25	4.0	0.2	0.5	33.2	0.01	0.02	3.2
FGL081 01+50S		0.79	10.7	330	8.4	7.6	<0.001	<0.01	0.20	3.1	0.2	0.4	20.7	<0.01	0.02	3.3
FGL081 02+00S		1.47	12.7	310	8.0	9.3	<0.001	<0.01	0.27	4.1	0.2	0.5	72.7	0.01	0.02	2.2
FGL081 03+00S		1.06	11.1	600	6.3	8.4	<0.001	<0.01	0.21	4.5	0.2	0.5	114.5	<0.01	<0.01	1.4
FGL081 03+50S		0.82	12.1	890	7.6	8.1	<0.001	0.01	0.36	5.6	0.8	0.4	91.9	0.01	0.01	1.3
FGL081 04+00S		0.48	10.2	950	10.2	9.1	<0.001	0.04	0.65	3.8	0.7	0.3	73.5	<0.01	0.03	2.2
FGL081 04+50S		0.56	8.6	810	6.3	10.4	<0.001	0.05	0.39	3.0	0.6	0.3	77.5	<0.01	0.02	0.9
FGL081 05+50S		0.70	11.6	1070	10.3	13.4	<0.001	0.02	0.56	7.3	0.9	0.4	61.1	<0.01	<0.01	3.3
FGL081 06+00S		1.31	12.8	650	7.1	8.5	<0.001	0.02	0.28	3.6	0.2	0.5	31.3	<0.01	0.02	2.0
FGL081 06+50S		0.82	10.1	610	6.0	6.5	<0.001	0.03	0.37	2.9	0.2	0.4	47.2	<0.01	0.02	0.9
FGL081 07+00S		0.61	9.2	670	8.8	9.5	<0.001	0.02	1.30	6.6	0.4	0.5	36.6	<0.01	0.02	2.7
FGL081 07+50S		1.12	17.9	290	7.2	8.3	<0.001	0.02	0.43	3.8	<0.2	0.5	17.7	<0.01	0.03	3.1
FGL081 08+00S		1.65	15.2	270	6.8	11.3	<0.001	0.02	0.36	3.7	<0.2	0.6	23.6	<0.01	0.03	2.3
FGL081 08+50S		1.02	12.1	690	14.4	12.5	<0.001	0.02	0.74	3.9	<0.2	0.5	26.2	<0.01	0.02	2.5
FGL081 09+00S		1.48	11.6	670	13.2	18.7	<0.001	0.02	0.65	4.2	<0.2	0.7	19.3	<0.01	0.04	2.2
FGL081 10+00S		0.99	10.7	800	6.6	7.7	0.001	0.06	0.34	4.7	0.7	0.4	62.6	<0.01	0.01	2.2
FGL081 12+50S		0.60	9.2	740	3.5	8.8	<0.001	0.05	0.17	3.7	0.3	0.3	31.3	<0.01	0.01	0.6
FGL081 13+50S		0.99	11.1	710	6.1	14.1	<0.001	0.02	0.28	4.0	0.2	0.5	24.3	<0.01	0.01	1.7
FGL081 14+00S		0.60	6.2	470	5.2	12.1	<0.001	0.03	0.34	2.1	0.2	0.4	19.5	<0.01	0.02	0.3
FGL081 14+50S		0.86	11.9	820	4.5	18.5	<0.001	0.05	0.25	4.3	0.2	0.4	44.6	<0.01	0.01	1.0
FGL081 15+50S		0.93	11.3	840	6.4	9.4	<0.001	0.05	0.33	4.2	<0.2	0.4	39.2	<0.01	0.01	1.1
FGL081 16+00S		1.48	29.6	1070	10.9	9.1	<0.001	0.05	0.65	6.2	0.4	0.6	53.2	<0.01	0.02	2.4
FGL081 17+00S		0.96	11.0	1170	12.8	13.2	<0.001	0.02	0.72	4.0	0.3	0.5	35.6	<0.01	0.02	1.7
FGL081 17+50S		0.96	13.2	890	9.4	20.6	<0.001	0.02	0.45	4.6	<0.2	0.5	34.0	<0.01	0.02	1.3
FGL081 18+00S		0.55	10.5	760	3.8	10.5	<0.001	0.05	0.28	3.0	0.3	0.3	38.1	<0.01	0.02	0.4
FGL081 18+50S		0.52	6.0	380	2.6	6.4	<0.001	0.03	0.15	1.5	<0.2	0.2	19.7	<0.01	0.02	0.2
FGL081 19+00S		1.39	18.3	510	7.0	12.5	<0.001	0.02	0.30	4.7	<0.2	0.6	34.3	<0.01	0.03	2.1
FGL081 20+00S		1.57	18.1	420	7.1	9.5	<0.001	0.02	0.30	4.2	<0.2	0.6	26.9	<0.01	0.02	2.1
FGL081 20+50S		1.14	14.9	340	4.8	8.3	<0.001	0.02	0.26	3.2	<0.2	0.4	21.0	<0.01	0.01	1.2
FGL081 21+00S		1.34	21.3	450	6.9	9.4	<0.001	0.02	0.27	5.2	<0.2	0.6	31.0	<0.01	0.02	1.9
FGL081 21+50S		0.89	10.5	800	4.3	9.0	<0.001	0.04	0.21	4.3	0.4	0.4	44.9	<0.01	0.03	1.3
FGL081 22+00S		0.97	15.4	960	6.4	8.2	<0.001	0.06	0.20	5.1	0.6	0.5	58.7	<0.01	0.03	1.2
FGL081 22+50S		1.03	13.8	520	6.3	14.2	<0.001	0.03	0.18	5.0	0.4	0.5	55.9	<0.01	0.02	1.4
FGL082 00+00		0.76	7.2	370	4.7	12.9	<0.001	0.03	0.15	1.9	0.3	0.4	21.4	<0.01	0.02	0.3
FGL082 00+50S		1.69	17.6	430	6.4	14.5	<0.001	0.03	0.37	3.9	0.2	0.6	21.9	<0.01	0.04	2.0
FGL082 01+00S		1.27	15.2	340	5.6	9.7	<0.001	0.02	0.29	2.8	0.2	0.5	18.5	<0.01	0.03	1.5
FGL082 01+50S		1.84	15.3	430	7.0	10.7	<0.001	0.02	0.29	3.7	0.3	0.6	21.8	<0.01	0.04	2.0
FGL082 02+00S		1.35	13.0	690	6.7	14.4	<0.001	0.03	0.23	3.8	0.2	0.5	26.6	<0.01	0.03	1.2
FGL082 02+50S		0.99	14.6	430	5.3	8.7	<0.001	0.02	0.21	3.7	0.5	0.4	32.6	<0.01	0.02	1.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL081 00+50S		0.054	0.07	0.43	54	0.18	4.09	51	0.7
FGL081 01+00S		0.052	0.07	0.46	56	0.20	3.28	66	1.2
FGL081 01+50S		0.046	0.07	0.46	46	0.15	3.03	53	1.3
FGL081 02+00S		0.073	0.06	0.51	62	0.78	5.20	60	2.0
FGL081 03+00S		0.073	0.06	0.51	55	0.22	4.52	61	0.6
FGL081 03+50S		0.050	0.09	1.36	55	0.18	15.15	66	0.9
FGL081 04+00S		0.018	0.07	1.44	35	0.12	15.05	63	1.3
FGL081 04+50S		0.016	0.08	1.20	21	0.14	17.80	46	1.6
FGL081 05+50S		0.036	0.12	1.76	58	0.10	22.0	87	1.8
FGL081 06+00S		0.082	0.09	0.53	64	0.25	3.98	55	0.9
FGL081 06+50S		0.043	0.10	0.74	44	0.26	5.69	40	0.6
FGL081 07+00S		0.020	0.11	0.75	56	0.09	16.00	74	1.2
FGL081 07+50S		0.059	0.10	0.45	55	0.13	3.17	56	1.5
FGL081 08+00S		0.080	0.10	0.44	62	0.16	3.56	52	1.6
FGL081 08+50S		0.032	0.15	0.50	53	0.19	3.88	64	0.7
FGL081 09+00S		0.077	0.13	0.47	72	0.15	3.05	67	1.5
FGL081 10+00S		0.067	0.07	1.49	49	0.12	7.67	57	1.7
FGL081 12+50S		0.040	0.08	0.69	44	0.12	7.97	36	0.7
FGL081 13+50S		0.064	0.09	0.46	59	0.13	4.53	61	<0.5
FGL081 14+00S		0.048	0.10	0.46	43	0.24	3.12	37	<0.5
FGL081 14+50S		0.077	0.11	0.63	49	0.13	5.64	64	1.0
FGL081 15+50S		0.087	0.11	0.59	53	0.15	4.81	62	1.1
FGL081 16+00S		0.113	0.12	1.11	73	0.22	9.53	74	2.5
FGL081 17+00S		0.127	0.12	0.43	69	0.56	4.52	65	0.8
FGL081 17+50S		0.109	0.15	0.53	68	0.14	8.03	54	0.7
FGL081 18+00S		0.049	0.11	0.67	48	0.11	6.02	37	0.6
FGL081 18+50S		0.037	0.08	0.32	26	0.08	2.81	18	<0.5
FGL081 19+00S		0.086	0.12	0.56	75	0.18	5.02	57	1.0
FGL081 20+00S		0.091	0.11	0.44	70	0.18	3.84	51	1.4
FGL081 20+50S		0.067	0.07	0.37	46	0.14	3.40	36	0.7
FGL081 21+00S		0.107	0.11	0.50	72	0.14	4.99	61	1.3
FGL081 21+50S		0.081	0.06	0.50	52	0.09	7.02	54	1.0
FGL081 22+00S		0.068	0.06	0.75	61	0.17	10.50	50	1.2
FGL081 22+50S		0.069	0.07	0.61	61	0.10	6.27	56	0.9
FGL082 00+00		0.064	0.06	0.35	46	0.10	3.18	34	<0.5
FGL082 00+50S		0.118	0.08	0.36	74	0.16	2.94	61	1.4
FGL082 01+00S		0.076	0.07	0.33	53	0.13	2.63	40	0.6
FGL082 01+50S		0.099	0.09	0.47	64	0.18	4.02	43	1.0
FGL082 02+00S		0.128	0.07	0.37	74	0.15	3.11	76	0.9
FGL082 02+50S		0.080	0.07	0.48	55	0.12	6.59	53	0.5

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL082 00+50N		0.46	0.0008	0.06	1.16	6.0	<0.02	<10	110	0.22	0.11	0.18	0.09	15.40	4.0	17
FGL082 01+00N		0.48	0.0005	0.03	1.64	7.1	<0.02	<10	100	0.31	0.06	0.33	0.06	13.30	6.8	19
FGL082 01+50N		0.61	0.0093	0.05	1.30	5.9	<0.02	<10	240	0.22	0.08	0.41	0.07	15.80	6.8	22
FGL082 02+00N		0.53	0.0014	1.07	1.54	9.2	<0.02	<10	260	0.27	0.08	0.40	0.13	19.75	8.3	23
FGL082 02+50N		0.52	0.0009	0.12	1.37	4.8	<0.02	<10	140	0.24	0.06	0.32	0.03	14.95	6.7	21
FGL082 03+00N		0.66	0.0011	0.06	1.55	8.9	<0.02	<10	210	0.36	0.06	0.49	0.04	20.4	8.6	22
FGL082 04+00N		0.40	0.0009	0.15	1.18	7.6	<0.02	<10	190	0.32	0.06	0.33	0.05	13.55	5.5	12
FGL082 04+50N		0.63	0.0016	0.06	1.91	9.3	<0.02	<10	250	0.41	0.10	0.36	0.05	21.1	8.9	27
FGL082 05+00N		0.56	0.0051	0.13	1.49	4.5	<0.02	<10	210	0.30	0.07	0.33	0.04	18.95	6.1	19
FGL082 05+50N		0.76	0.0008	0.05	1.49	6.4	<0.02	<10	140	0.28	0.08	0.28	0.04	17.35	6.8	20
FGL082 06+00N		0.45	0.0003	0.06	0.74	2.6	<0.02	<10	130	0.20	0.05	0.15	0.03	10.50	3.1	9
FGL082 06+50N		0.50	0.0011	0.13	1.31	4.1	<0.02	<10	220	0.30	0.08	0.17	0.04	13.35	3.7	14
FGL082 07+00N		0.45	0.0015	0.09	1.92	6.9	<0.02	<10	170	0.37	0.09	0.38	0.05	18.20	7.8	28
FGL082 07+50N		0.45	0.0031	0.08	1.92	6.4	<0.02	<10	250	0.39	0.09	0.61	0.06	27.9	10.8	27
FGL082 08+00N		0.67	0.0008	0.07	1.53	4.6	<0.02	<10	190	0.40	0.08	0.44	0.04	20.1	7.2	21
FGL082 08+50N		0.61	0.0014	0.06	1.49	5.5	<0.02	<10	180	0.27	0.08	0.46	0.07	18.30	8.3	21
FGL082 09+00N		0.57	0.0032	0.07	1.31	5.7	<0.02	<10	120	0.27	0.08	0.36	0.04	18.00	5.3	20
FGL082 09+50N		0.63	0.0062	0.05	1.28	4.7	<0.02	<10	130	0.23	0.07	0.40	0.05	17.85	8.7	20
FGL082 10+00N		0.66	0.0016	0.05	1.70	6.1	<0.02	<10	150	0.28	0.08	0.51	0.06	22.5	10.6	25
FGL082 10+50N		0.50	0.0015	0.07	1.52	9.6	<0.02	<10	240	0.27	0.07	0.43	0.10	25.3	22.4	23
FGL082 11+50N		0.50	0.0002	0.03	1.52	7.8	<0.02	<10	600	0.62	0.03	0.48	0.03	44.5	8.6	13
FGL082 12+00N		0.57	0.0004	0.04	1.70	8.2	<0.02	<10	230	0.42	0.09	0.18	0.06	19.70	7.9	20
FGL082 12+50N		0.50	0.0009	0.02	1.14	6.9	<0.02	<10	110	0.20	0.07	0.19	0.06	14.45	7.4	10
FGL082 13+00N		0.72	0.0012	0.03	2.10	9.9	<0.02	<10	260	0.64	0.09	0.34	0.05	31.5	8.9	25
FGL082 13+50N		0.59	0.0011	0.03	0.89	5.1	<0.02	<10	160	0.17	0.09	0.21	0.05	19.70	4.4	16
FGL082 14+50N		0.53	0.0007	0.03	0.87	11.7	<0.02	<10	280	0.48	0.05	0.43	0.05	40.2	9.0	12
FGL082 15+00N		0.41	0.0011	0.19	1.29	4.3	<0.02	<10	220	0.39	0.07	0.52	0.06	23.5	6.0	17
FGL082 15+50N		0.48	0.0021	0.17	0.93	4.3	<0.02	<10	160	0.32	0.07	0.39	0.03	14.75	3.7	11
FGL082 17+00N		0.47	0.0043	0.18	1.50	5.8	<0.02	<10	250	0.45	0.09	0.50	0.17	26.0	5.2	21
FGL082 18+00N		0.61	0.0032	0.17	1.42	4.4	<0.02	<10	240	0.40	0.07	0.75	0.09	21.4	7.0	15
FGL082 18+50N		0.53	0.0020	0.10	1.15	5.4	<0.02	<10	140	0.29	0.05	0.75	0.07	22.2	4.9	12
FGL082 19+00N		0.62	0.0010	0.06	1.09	7.2	0.02	<10	260	0.37	0.08	0.42	0.10	17.95	4.2	12
FGL082 19+50N		0.52	0.0010	0.03	1.34	7.7	<0.02	<10	200	0.26	0.14	0.25	0.06	15.65	5.8	22

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL082 00+50N		0.96	12.2	1.74	6.23	0.10	<0.02	0.01	0.014	0.05	8.3	8.3	0.27	123	0.54	0.01
FGL082 01+00N		1.91	11.2	2.24	7.50	0.10	0.02	<0.01	0.017	0.05	7.0	12.6	0.54	243	0.47	0.01
FGL082 01+50N		2.17	10.3	2.03	5.47	0.11	0.02	0.01	0.016	0.05	8.2	11.9	0.49	313	0.52	0.01
FGL082 02+00N		5.37	10.6	2.45	7.14	0.10	<0.02	0.07	0.020	0.08	8.4	13.9	0.59	349	0.45	0.01
FGL082 02+50N		2.28	9.2	1.73	4.96	0.11	0.02	0.01	0.012	0.06	8.2	9.3	0.54	224	0.42	0.02
FGL082 03+00N		2.74	9.9	2.34	6.11	0.11	<0.02	<0.01	0.020	0.07	10.4	11.8	0.63	344	0.37	0.02
FGL082 04+00N		1.04	12.0	1.31	4.48	0.10	<0.02	0.04	0.011	0.06	8.6	5.0	0.18	272	0.40	0.02
FGL082 04+50N		1.19	12.2	2.41	7.17	0.12	0.02	0.02	0.020	0.07	12.2	13.0	0.60	328	0.58	0.01
FGL082 05+00N		0.85	12.2	1.75	5.66	0.10	0.02	0.04	0.017	0.05	10.7	8.5	0.41	271	0.36	0.02
FGL082 05+50N		1.02	9.7	1.99	5.98	0.11	<0.02	<0.01	0.017	0.06	10.1	9.9	0.50	233	0.39	0.01
FGL082 06+00N		0.88	6.2	1.02	3.54	0.10	<0.02	0.01	0.009	0.05	5.8	3.7	0.16	133	0.25	0.02
FGL082 06+50N		1.18	11.7	1.23	4.79	0.09	<0.02	0.02	0.013	0.06	8.2	5.7	0.20	126	0.40	0.02
FGL082 07+00N		1.30	10.3	2.33	7.09	0.10	<0.02	0.02	0.020	0.07	10.2	11.7	0.58	268	0.50	0.01
FGL082 07+50N		1.47	11.4	2.33	7.48	0.11	0.02	0.02	0.019	0.06	14.8	13.5	0.68	383	0.55	0.02
FGL082 08+00N		1.59	9.9	1.90	6.10	0.10	<0.02	0.01	0.019	0.05	11.2	10.8	0.52	281	0.35	0.02
FGL082 08+50N		1.98	8.5	2.20	6.17	0.11	<0.02	0.01	0.015	0.05	10.0	10.3	0.54	375	0.41	0.02
FGL082 09+00N		1.21	11.1	1.85	5.15	0.10	<0.02	0.01	0.015	0.04	9.7	8.4	0.40	175	0.37	0.02
FGL082 09+50N		1.04	8.2	1.96	5.47	0.12	<0.02	0.01	0.014	0.04	9.6	8.4	0.44	370	0.35	0.01
FGL082 10+00N		1.19	8.5	2.47	6.99	0.11	0.04	0.02	0.019	0.04	12.3	11.9	0.62	569	0.39	0.01
FGL082 10+50N		1.17	9.3	3.41	5.98	0.11	0.02	0.04	0.018	0.04	12.2	8.9	0.45	2510	0.67	0.01
FGL082 11+50N		1.78	5.7	2.31	6.29	0.10	0.02	<0.01	0.030	0.10	18.6	11.0	0.53	566	0.46	<0.01
FGL082 12+00N		1.88	11.0	2.21	6.76	0.09	0.02	<0.01	0.020	0.06	10.7	11.6	0.42	372	0.59	0.01
FGL082 12+50N		1.09	3.7	1.82	7.77	0.09	<0.02	<0.01	0.010	0.07	6.2	7.1	0.46	507	0.49	0.01
FGL082 13+00N		1.51	13.0	2.54	7.70	0.11	0.03	<0.01	0.022	0.08	23.2	13.3	0.58	410	0.50	0.01
FGL082 13+50N		0.90	6.8	1.47	5.73	0.09	<0.02	<0.01	0.012	0.05	10.5	5.9	0.32	185	0.39	0.01
FGL082 14+50N		1.43	8.2	2.84	4.69	0.12	0.03	<0.01	0.022	0.07	23.6	5.7	0.29	440	0.39	<0.01
FGL082 15+00N		2.56	11.6	1.75	5.11	0.11	<0.02	0.03	0.016	0.04	15.7	7.6	0.37	319	0.33	0.02
FGL082 15+50N		1.36	13.8	1.32	3.61	0.10	0.02	0.04	0.012	0.04	11.0	5.2	0.22	170	0.57	0.02
FGL082 17+00N		1.19	13.9	1.77	5.02	0.11	<0.02	0.04	0.019	0.06	13.0	9.9	0.39	279	0.40	0.01
FGL082 18+00N		1.55	9.1	2.00	5.18	0.12	0.03	0.03	0.019	0.05	13.1	9.3	0.45	494	0.31	0.01
FGL082 18+50N		1.24	5.6	1.47	4.33	0.12	0.03	0.02	0.013	0.06	14.1	7.9	0.42	308	0.18	0.01
FGL082 19+00N		0.60	7.7	1.57	5.10	0.11	<0.02	0.01	0.012	0.06	14.2	7.2	0.29	316	0.43	0.01
FGL082 19+50N		0.72	7.8	1.76	5.61	0.11	0.03	<0.01	0.016	0.07	7.7	9.2	0.34	322	0.54	<0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL082 00+50N		1.16	8.3	310	5.4	10.9	<0.001	0.03	0.21	1.8	0.2	0.5	18.7	<0.01	0.03	0.4
FGL082 01+00N		1.15	9.7	480	4.8	9.3	<0.001	0.02	0.21	3.0	0.2	0.4	35.2	<0.01	0.03	1.1
FGL082 01+50N		1.13	11.7	540	4.7	8.0	<0.001	0.03	0.30	2.7	0.2	0.4	38.8	<0.01	0.03	1.3
FGL082 02+00N		1.12	11.7	610	68.3	13.2	<0.001	0.02	1.92	3.5	<0.2	0.5	32.7	<0.01	0.03	1.5
FGL082 02+50N		1.13	20.3	560	5.1	9.4	<0.001	0.03	0.23	2.6	0.3	0.4	23.1	<0.01	0.03	1.6
FGL082 03+00N		0.82	11.3	890	4.9	9.5	<0.001	0.02	0.40	3.6	0.3	0.4	28.2	<0.01	0.02	1.2
FGL082 04+00N		0.47	6.5	590	3.6	9.7	<0.001	0.05	0.16	1.5	0.3	0.2	28.2	<0.01	0.02	0.2
FGL082 04+50N		1.21	15.4	620	6.6	11.1	<0.001	0.03	0.25	3.7	0.4	0.5	25.7	<0.01	0.03	1.4
FGL082 05+00N		0.64	9.7	840	3.9	7.7	<0.001	0.05	0.16	2.5	0.4	0.3	25.9	<0.01	0.03	0.5
FGL082 05+50N		0.98	11.1	580	4.7	9.1	<0.001	0.02	0.20	2.8	0.2	0.4	20.5	<0.01	0.02	0.9
FGL082 06+00N		0.20	4.2	390	3.1	8.5	<0.001	0.03	0.10	0.6	<0.2	0.2	14.2	<0.01	0.02	<0.2
FGL082 06+50N		0.43	7.1	420	4.1	10.4	<0.001	0.04	0.14	1.2	0.2	0.3	18.2	<0.01	0.02	<0.2
FGL082 07+00N		1.01	14.2	670	5.4	10.8	<0.001	0.03	0.20	3.4	0.3	0.5	27.6	<0.01	0.02	0.9
FGL082 07+50N		0.98	14.9	1020	5.6	10.9	<0.001	0.04	0.21	3.9	0.3	0.5	39.1	<0.01	0.03	1.0
FGL082 08+00N		0.75	10.8	900	4.2	7.9	<0.001	0.04	0.17	2.8	0.3	0.4	28.4	<0.01	0.02	0.6
FGL082 08+50N		0.88	10.6	980	5.2	8.6	<0.001	0.04	0.25	3.0	0.3	0.4	31.1	<0.01	0.02	1.0
FGL082 09+00N		0.89	10.2	840	4.5	7.2	<0.001	0.04	0.24	2.3	0.2	0.4	27.1	<0.01	0.03	0.8
FGL082 09+50N		0.83	10.0	900	3.8	6.6	<0.001	0.03	0.22	2.5	0.2	0.4	29.0	<0.01	0.02	1.0
FGL082 10+00N		1.07	12.1	1140	5.2	8.6	<0.001	0.03	0.26	3.6	0.3	0.5	32.7	<0.01	0.03	2.2
FGL082 10+50N		0.90	10.0	920	5.3	7.2	<0.001	0.05	0.30	3.2	0.4	0.4	30.9	<0.01	0.02	1.2
FGL082 11+50N		0.26	8.1	1130	6.0	6.4	<0.001	0.02	0.27	4.6	0.4	0.4	26.6	<0.01	0.01	3.2
FGL082 12+00N		1.11	10.4	230	7.8	9.4	<0.001	0.02	0.42	3.1	0.2	0.5	19.1	<0.01	0.03	2.7
FGL082 12+50N		1.00	4.4	340	5.9	11.8	<0.001	0.02	0.21	1.5	<0.2	0.4	20.7	<0.01	0.02	1.5
FGL082 13+00N		1.12	13.8	280	12.0	8.5	<0.001	0.02	0.48	4.2	0.4	0.5	32.2	<0.01	0.03	3.4
FGL082 13+50N		1.20	7.0	270	6.5	8.5	<0.001	0.02	0.32	2.0	0.2	0.5	18.8	<0.01	0.02	1.6
FGL082 14+50N		0.44	7.4	700	8.0	4.9	<0.001	0.02	1.32	2.9	0.4	0.3	25.8	<0.01	0.02	3.9
FGL082 15+00N		0.68	8.4	870	5.8	5.8	<0.001	0.04	0.27	3.1	0.4	0.4	41.3	<0.01	0.02	1.0
FGL082 15+50N		0.55	6.9	680	5.2	5.0	<0.001	0.05	0.26	1.8	0.3	0.2	34.5	<0.01	0.02	0.5
FGL082 17+00N		0.74	10.7	550	6.1	9.8	<0.001	0.04	0.25	4.2	0.5	0.4	39.4	<0.01	0.03	0.9
FGL082 18+00N		0.69	8.2	1040	6.0	6.2	<0.001	0.05	0.35	3.2	0.5	0.3	57.1	<0.01	0.02	1.2
FGL082 18+50N		0.72	6.2	1140	4.5	4.5	<0.001	0.04	0.31	3.1	0.4	0.3	46.6	<0.01	0.02	2.0
FGL082 19+00N		0.80	5.7	260	5.5	6.8	<0.001	0.03	0.25	2.3	0.4	0.3	23.9	<0.01	0.02	0.8
FGL082 19+50N		1.31	9.4	280	7.6	11.1	<0.001	0.02	0.19	2.7	0.2	0.5	18.8	<0.01	0.03	1.6

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL082 00+50N		0.077	0.06	0.31	52	0.13	2.46	40	0.5
FGL082 01+00N		0.089	0.05	0.31	58	0.11	2.44	45	0.7
FGL082 01+50N		0.078	0.07	0.34	52	0.12	2.95	51	0.7
FGL082 02+00N		0.085	0.10	0.34	63	0.09	3.10	70	0.6
FGL082 02+50N		0.082	0.07	0.41	44	0.16	3.11	44	0.9
FGL082 03+00N		0.068	0.07	0.40	59	0.10	4.67	59	<0.5
FGL082 04+00N		0.036	0.06	0.44	34	0.08	3.14	33	<0.5
FGL082 04+50N		0.076	0.10	0.51	57	0.25	5.37	61	0.7
FGL082 05+00N		0.062	0.08	0.51	46	0.09	5.22	48	0.5
FGL082 05+50N		0.080	0.08	0.40	51	0.15	3.72	52	<0.5
FGL082 06+00N		0.028	0.05	0.31	29	0.06	2.41	30	<0.5
FGL082 06+50N		0.029	0.07	0.48	30	0.08	3.45	33	<0.5
FGL082 07+00N		0.084	0.09	0.52	60	0.13	4.24	61	<0.5
FGL082 07+50N		0.093	0.08	0.64	62	0.16	6.71	64	0.5
FGL082 08+00N		0.069	0.08	0.90	49	0.11	5.09	49	<0.5
FGL082 08+50N		0.068	0.08	1.00	57	0.47	3.97	57	0.5
FGL082 09+00N		0.066	0.07	0.81	46	0.12	3.87	43	0.5
FGL082 09+50N		0.080	0.06	0.71	50	0.10	3.60	49	0.5
FGL082 10+00N		0.100	0.08	0.78	62	0.12	4.84	63	1.2
FGL082 10+50N		0.065	0.08	0.64	54	0.13	6.01	58	0.7
FGL082 11+50N		0.009	0.04	0.52	40	0.05	7.31	64	0.6
FGL082 12+00N		0.041	0.08	0.40	52	0.12	3.39	54	0.9
FGL082 12+50N		0.046	0.05	0.35	47	0.09	1.84	46	<0.5
FGL082 13+00N		0.061	0.07	0.65	58	0.09	6.81	60	1.1
FGL082 13+50N		0.067	0.06	0.34	48	0.14	2.68	35	<0.5
FGL082 14+50N		0.016	0.05	0.72	38	0.17	6.48	86	0.6
FGL082 15+00N		0.042	0.07	0.88	43	0.10	8.46	43	<0.5
FGL082 15+50N		0.030	0.05	0.64	30	0.09	5.86	32	0.7
FGL082 17+00N		0.043	0.07	1.06	41	0.10	8.49	53	0.6
FGL082 18+00N		0.048	0.05	0.74	46	0.18	8.54	60	0.8
FGL082 18+50N		0.045	0.03	1.00	33	0.14	8.05	55	0.9
FGL082 19+00N		0.044	0.04	0.40	41	0.10	7.70	43	<0.5
FGL082 19+50N		0.058	0.07	0.35	54	0.12	2.71	43	1.2

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164289

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

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CERTIFICATE WH17164291

Project: Freegold Mtn - Tinta Property

P.O. No.: 1005139- NOFREG- R1

This report is for 228 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2017.

The following have access to data associated with this certificate:

TONY BARRESI	JESSE HALLE	GRAEME HOPKINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: TRIUMPH GOLD CORP.
ATTN: TONY BARRESI
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.02	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
FGL083 00+00		0.74	0.0014	0.03	1.27	5.4	<0.02	<10	180	0.22	0.11	0.27	0.08	16.10	5.0	19
FGL083 00+50N		0.79	0.0014	0.02	1.84	10.5	<0.02	<10	130	0.36	0.10	0.18	0.10	16.25	9.0	27
FGL083 01+00N		0.71	0.0029	0.03	1.53	7.9	<0.02	<10	120	0.28	0.10	0.27	0.04	16.80	7.2	23
FGL083 01+50N		0.66	0.0005	0.04	1.59	7.6	<0.02	<10	110	0.30	0.10	0.28	0.04	16.20	7.4	22
FGL083 02+00N		0.68	0.0010	0.05	1.13	6.4	<0.02	<10	80	0.20	0.09	0.21	0.04	15.10	5.1	18
FGL083 02+50N		0.73	0.0023	0.03	1.71	7.8	<0.02	<10	120	0.31	0.09	0.24	0.06	17.85	7.2	24
FGL083 03+00N		0.70	0.0012	0.06	1.50	6.8	<0.02	<10	120	0.28	0.11	0.21	0.05	15.20	6.1	23
FGL083 03+50N		0.76	0.0024	0.20	2.42	9.9	<0.02	<10	150	0.42	0.10	0.24	0.11	18.05	10.1	28
FGL083 04+00N		1.00	0.0011	0.18	1.98	9.4	<0.02	<10	380	0.43	0.09	0.37	0.08	22.2	9.4	26
FGL083 04+50N		1.01	0.0014	0.27	1.46	7.7	<0.02	<10	370	0.44	0.07	0.49	0.04	25.2	7.4	22
FGL083 06+50N		0.42	0.0005	0.09	0.67	2.4	<0.02	<10	80	0.16	0.06	0.10	0.03	9.19	1.6	7
FGL083 07+00N		0.70	0.0007	0.03	1.40	8.3	<0.02	<10	100	0.25	0.09	0.19	0.06	14.25	5.9	20
FGL083 07+50N		0.71	0.0009	0.03	1.23	7.8	<0.02	<10	90	0.22	0.12	0.17	0.06	13.40	4.3	18
FGL083 08+00N		0.55	0.0007	0.11	1.03	3.5	<0.02	<10	120	0.28	0.06	0.16	0.05	11.70	3.1	10
FGL083 08+50N		0.70	0.0009	0.05	1.56	5.9	<0.02	<10	400	0.38	0.08	0.29	0.05	20.2	7.2	21
FGL083 09+50N		0.73	0.0015	0.07	1.19	4.3	<0.02	<10	280	0.29	0.08	0.40	0.03	20.3	5.8	18
FGL083 10+00N		0.87	0.0069	0.05	1.58	6.5	<0.02	<10	240	0.30	0.11	0.36	0.06	21.2	8.1	24
FGL083 10+50N		0.73	0.0196	0.04	1.67	6.7	<0.02	<10	190	0.32	0.10	0.37	0.06	17.55	7.3	24
FGL083 11+00N		0.80	0.0009	0.08	1.41	4.3	<0.02	<10	180	0.30	0.07	0.46	0.04	20.1	6.1	19
FGL083 11+50N		0.78	0.0009	0.05	1.89	6.0	<0.02	<10	190	0.29	0.08	0.62	0.04	21.0	9.3	25
FGL083 12+00N		0.75	0.0014	0.05	1.52	5.0	<0.02	<10	170	0.31	0.07	0.52	0.05	20.3	7.7	21
FGL083 13+00N		0.47	0.0008	0.05	1.27	4.6	<0.02	<10	150	0.23	0.07	0.34	0.04	16.90	6.3	19
FGL083 14+50N		0.65	0.0006	0.05	1.28	3.7	<0.02	<10	240	0.35	0.05	0.71	0.05	24.1	6.0	15
FGL083 18+50N		0.78	0.0025	0.06	1.70	8.6	<0.02	<10	220	0.48	0.12	0.43	0.06	30.5	7.6	28
FGL083 20+00N		0.66	0.0005	0.01	1.85	7.3	<0.02	<10	150	0.40	0.08	0.42	0.07	21.0	6.0	24
FGL083 20+50N		0.74	0.0010	0.02	1.50	8.4	<0.02	<10	80	0.24	0.12	0.21	0.05	16.70	5.1	23
FGL083 21+00N		0.80	0.0013	0.09	2.61	18.3	<0.02	<10	130	1.00	0.07	1.43	0.08	40.6	14.9	71
FGL083 22+50N		0.66	0.0008	0.06	1.37	5.9	<0.02	<10	150	0.30	0.07	0.39	0.05	17.40	5.0	23
FGL084 00+00		0.43	0.0003	0.03	1.67	4.9	<0.02	<10	150	0.31	0.10	0.41	0.08	17.55	9.1	21
FGL084 00+50N		0.46	0.0018	0.02	1.55	7.2	<0.02	<10	150	0.31	0.10	0.30	0.05	17.70	7.8	23
FGL084 01+00N		0.42	0.0016	0.13	1.96	7.2	<0.02	<10	360	0.62	0.09	0.62	0.04	26.3	8.3	21
FGL084 01+50N		0.52	0.0006	0.03	1.53	6.9	<0.02	<10	170	0.36	0.09	0.35	0.04	17.90	6.8	18
FGL084 02+00N		0.44	0.0013	0.04	1.25	7.0	<0.02	<10	120	0.25	0.11	0.14	0.07	13.15	4.8	17
FGL084 02+50N		0.64	0.0004	0.04	1.60	6.4	<0.02	<10	210	0.38	0.11	0.25	0.06	19.10	6.8	21
FGL084 03+00N		0.55	0.0020	0.03	2.50	13.0	<0.02	<10	160	0.44	0.12	0.23	0.06	18.20	9.9	25
FGL084 03+50N		0.54	0.0009	0.04	2.78	13.0	<0.02	<10	190	0.62	0.13	0.21	0.06	21.6	9.7	29
FGL084 04+00N		0.52	0.0010	0.02	1.90	9.7	<0.02	<10	200	0.50	0.10	0.29	0.07	23.2	8.7	26
FGL084 04+50N		0.62	0.0006	0.04	1.15	87.6	<0.02	<10	110	0.25	0.06	0.17	0.08	10.10	4.7	11
FGL084 05+00N		0.52	0.0055	0.02	1.55	10.1	<0.02	<10	140	0.36	0.09	0.15	0.09	14.20	6.5	19
FGL084 05+50N		0.50	0.0012	0.05	2.49	11.9	<0.02	<10	160	0.56	0.14	0.32	0.10	19.05	9.9	31

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SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL083 00+00		0.79	10.9	1.92	6.32	0.11	0.02	<0.01	0.017	0.08	9.0	9.4	0.45	186	0.47	<0.01
FGL083 00+50N		1.01	14.4	2.55	5.60	0.11	0.06	0.47	0.020	0.07	8.1	14.6	0.53	265	0.62	<0.01
FGL083 01+00N		0.79	15.2	2.04	4.65	0.11	0.02	<0.01	0.017	0.06	8.0	9.1	0.43	226	0.53	0.01
FGL083 01+50N		0.84	12.2	2.24	5.90	0.11	0.02	<0.01	0.017	0.08	8.5	11.2	0.53	245	0.61	0.01
FGL083 02+00N		0.77	10.0	1.82	4.67	0.10	<0.02	<0.01	0.014	0.06	7.9	8.5	0.36	194	0.46	0.01
FGL083 02+50N		0.88	12.0	2.35	5.57	0.11	0.03	<0.01	0.018	0.08	9.8	11.8	0.51	234	0.55	0.01
FGL083 03+00N		1.03	12.7	2.01	5.52	0.10	<0.02	<0.01	0.017	0.06	8.0	10.6	0.43	218	0.51	0.01
FGL083 03+50N		3.96	16.9	2.94	7.26	0.10	0.05	<0.01	0.026	0.07	7.9	16.0	0.62	313	0.58	<0.01
FGL083 04+00N		5.24	13.8	2.58	6.53	0.11	0.02	0.01	0.024	0.07	10.2	14.7	0.61	334	0.58	0.01
FGL083 04+50N		2.85	12.1	2.10	5.48	0.11	0.03	0.04	0.017	0.06	14.2	11.5	0.59	312	0.35	0.01
FGL083 06+50N		0.53	10.4	0.67	2.68	0.10	<0.02	0.01	0.007	0.04	5.0	2.5	0.09	49	0.33	0.02
FGL083 07+00N		0.71	8.5	2.18	5.91	0.11	<0.02	<0.01	0.017	0.06	7.1	10.0	0.41	241	0.63	0.01
FGL083 07+50N		0.69	10.5	1.89	6.30	0.10	0.02	<0.01	0.014	0.05	7.0	8.8	0.33	154	0.55	0.01
FGL083 08+00N		0.71	10.7	1.23	3.55	0.10	<0.02	0.01	0.010	0.05	6.2	4.1	0.15	113	0.36	0.02
FGL083 08+50N		2.08	9.7	2.02	5.04	0.11	<0.02	0.01	0.021	0.06	11.2	9.4	0.45	384	0.41	0.01
FGL083 09+50N		0.98	11.2	1.64	4.21	0.12	0.03	0.01	0.015	0.04	11.4	9.0	0.44	290	0.39	0.01
FGL083 10+00N		1.12	12.3	2.16	5.47	0.11	0.02	<0.01	0.019	0.05	11.3	11.7	0.55	368	0.51	0.01
FGL083 10+50N		1.01	10.0	2.24	5.72	0.09	0.03	<0.01	0.018	0.05	9.2	11.2	0.54	298	0.54	0.01
FGL083 11+00N		2.01	9.7	1.86	4.81	0.11	<0.02	<0.01	0.014	0.04	11.6	8.3	0.44	283	0.40	0.01
FGL083 11+50N		1.76	8.0	2.54	7.10	0.12	0.04	0.01	0.020	0.04	12.5	12.7	0.75	327	0.32	0.01
FGL083 12+00N		1.31	8.5	2.17	5.95	0.12	0.03	0.01	0.017	0.04	11.7	10.0	0.58	294	0.35	0.01
FGL083 13+00N		1.03	8.8	1.80	4.90	0.11	<0.02	0.01	0.014	0.04	9.1	7.4	0.41	273	0.38	0.01
FGL083 14+50N		1.11	11.2	1.70	5.45	0.14	0.02	0.01	0.019	0.05	14.4	12.5	0.59	263	0.26	0.01
FGL083 18+50N		0.87	16.3	2.41	5.29	0.12	0.04	0.01	0.024	0.06	16.0	9.8	0.46	249	0.59	0.01
FGL083 20+00N		1.77	11.0	2.08	5.99	0.11	<0.02	<0.01	0.018	0.06	9.1	12.0	0.47	326	0.38	0.01
FGL083 20+50N		0.95	9.6	2.11	6.86	0.10	<0.02	<0.01	0.018	0.05	8.7	10.3	0.36	186	0.54	0.01
FGL083 21+00N		1.84	21.5	3.79	10.45	0.14	0.07	0.02	0.038	0.06	19.6	18.5	1.18	609	0.20	0.02
FGL083 22+50N		0.83	9.6	1.72	4.82	0.10	<0.02	0.01	0.016	0.05	9.2	7.8	0.38	245	0.34	0.01
FGL084 00+00		0.73	9.6	2.66	7.88	0.11	<0.02	<0.01	0.021	0.09	9.0	11.0	0.58	425	0.63	0.01
FGL084 00+50N		1.27	9.7	2.34	6.17	0.10	0.03	<0.01	0.020	0.08	9.2	12.9	0.58	348	0.47	0.01
FGL084 01+00N		3.31	21.8	2.35	7.26	0.08	0.06	0.06	0.027	0.08	18.3	14.0	0.53	370	0.38	0.01
FGL084 01+50N		1.93	12.2	2.00	5.66	0.06	0.04	0.01	0.019	0.07	10.1	11.9	0.50	238	0.38	0.01
FGL084 02+00N		1.59	11.6	1.73	4.86	<0.05	0.03	0.01	0.019	0.07	6.7	10.0	0.33	162	0.45	0.01
FGL084 02+50N		3.68	11.3	2.08	6.13	<0.05	0.04	<0.01	0.022	0.06	10.4	11.1	0.40	336	0.66	0.01
FGL084 03+00N		6.68	10.5	3.59	9.49	0.05	0.05	0.01	0.031	0.09	8.9	18.8	0.71	383	0.70	0.01
FGL084 03+50N		4.03	18.7	3.11	8.02	0.06	0.06	0.01	0.032	0.08	11.2	18.5	0.61	275	0.56	0.01
FGL084 04+00N		1.73	14.7	2.41	6.20	0.05	0.05	0.01	0.023	0.07	11.7	13.5	0.60	324	0.45	0.01
FGL084 04+50N		2.07	9.0	1.60	3.79	<0.05	0.03	0.14	0.017	0.05	4.9	7.1	0.20	129	0.30	0.02
FGL084 05+00N		1.34	12.4	1.89	4.72	<0.05	0.04	0.01	0.018	0.05	7.2	10.9	0.33	164	0.39	0.01
FGL084 05+50N		1.42	17.1	2.89	7.34	0.05	0.06	<0.01	0.027	0.08	9.6	17.5	0.62	363	0.58	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL083 00+00		1.16	10.1	420	5.2	16.6	<0.001	0.02	0.23	2.6	0.2	0.4	22.2	<0.01	0.03	0.9
FGL083 00+50N		1.27	18.3	550	5.7	9.9	<0.001	0.02	0.40	3.5	<0.2	0.4	14.1	<0.01	0.03	2.5
FGL083 01+00N		1.01	14.5	580	5.4	8.0	<0.001	0.02	0.31	2.6	0.2	0.4	17.7	<0.01	0.03	1.4
FGL083 01+50N		1.28	12.4	590	5.1	13.0	<0.001	0.02	0.28	2.8	0.2	0.4	25.6	<0.01	0.03	1.5
FGL083 02+00N		1.03	10.5	460	4.4	9.6	<0.001	0.02	0.27	2.1	0.2	0.4	18.2	<0.01	0.02	1.0
FGL083 02+50N		1.25	14.8	410	5.3	10.9	<0.001	0.03	0.34	3.3	0.2	0.4	18.5	<0.01	0.03	1.7
FGL083 03+00N		1.24	14.9	350	5.4	8.0	<0.001	0.03	0.25	2.6	<0.2	0.5	19.5	<0.01	0.03	0.9
FGL083 03+50N		1.52	17.9	360	6.8	10.7	<0.001	0.02	0.68	3.8	0.3	0.5	24.3	<0.01	0.03	1.9
FGL083 04+00N		1.13	15.7	610	7.4	9.3	<0.001	0.02	0.67	4.3	0.2	0.5	29.3	<0.01	0.03	1.9
FGL083 04+50N		0.92	12.1	740	5.8	6.3	<0.001	0.02	0.51	4.3	0.3	0.4	32.1	<0.01	0.03	2.2
FGL083 06+50N		0.17	4.0	390	2.7	5.6	<0.001	0.04	0.12	0.3	0.2	0.2	11.3	<0.01	0.02	<0.2
FGL083 07+00N		1.06	9.5	540	4.5	9.1	<0.001	0.03	0.26	2.2	0.2	0.4	16.4	<0.01	0.04	0.6
FGL083 07+50N		1.11	8.7	360	5.4	7.1	<0.001	0.03	0.22	1.9	<0.2	0.5	14.5	<0.01	0.03	0.5
FGL083 08+00N		0.24	5.4	630	3.0	6.7	<0.001	0.05	0.13	0.6	0.2	0.2	16.6	<0.01	0.02	<0.2
FGL083 08+50N		0.81	11.2	670	4.6	7.9	<0.001	0.04	0.17	3.2	0.2	0.3	19.8	<0.01	0.02	1.0
FGL083 09+50N		0.75	10.5	870	3.8	5.5	<0.001	0.04	0.20	2.7	0.4	0.3	30.5	<0.01	0.02	1.1
FGL083 10+00N		1.04	12.2	800	5.3	8.0	<0.001	0.03	0.18	3.2	0.4	0.4	27.9	<0.01	0.02	1.7
FGL083 10+50N		1.11	12.4	690	4.9	8.4	<0.001	0.03	0.21	3.2	0.3	0.4	26.5	<0.01	0.02	1.8
FGL083 11+00N		0.65	9.1	1100	3.6	6.2	<0.001	0.04	0.19	2.5	0.2	0.3	28.5	<0.01	0.02	0.8
FGL083 11+50N		1.05	12.3	1330	5.0	7.5	<0.001	0.03	0.24	4.0	0.3	0.4	34.8	<0.01	0.02	2.0
FGL083 12+00N		0.91	10.8	1080	3.9	7.1	<0.001	0.04	0.22	3.3	0.3	0.4	33.2	<0.01	0.02	1.4
FGL083 13+00N		0.71	8.8	810	4.2	5.8	<0.001	0.05	0.19	2.2	0.2	0.3	24.6	<0.01	0.02	0.5
FGL083 14+50N		0.62	8.1	920	4.5	5.1	<0.001	0.06	0.39	3.5	0.5	0.3	132.0	<0.01	0.02	1.7
FGL083 18+50N		1.03	13.4	620	7.8	7.8	<0.001	0.03	0.27	5.6	0.4	0.4	35.3	<0.01	0.02	2.7
FGL083 20+00N		0.79	12.3	760	5.0	7.6	<0.001	0.03	0.22	2.3	0.3	0.4	43.0	0.01	0.03	0.5
FGL083 20+50N		1.34	10.2	360	6.0	6.2	<0.001	0.03	0.23	2.3	0.2	0.5	17.9	<0.01	0.03	0.7
FGL083 21+00N		0.92	21.9	1720	6.8	5.5	<0.001	0.04	0.56	9.4	0.5	0.6	77.7	<0.01	0.02	2.5
FGL083 22+50N		0.75	8.7	620	5.3	4.9	<0.001	0.03	0.28	2.8	0.3	0.3	29.0	<0.01	0.02	0.9
FGL084 00+00		1.15	10.6	600	5.5	15.5	<0.001	0.03	0.23	3.5	<0.2	0.5	38.8	<0.01	0.03	1.1
FGL084 00+50N		1.24	13.0	450	5.5	13.5	<0.001	0.02	0.27	3.1	0.2	0.4	28.1	<0.01	0.02	1.8
FGL084 01+00N		0.85	13.1	860	5.3	11.5	<0.001	0.04	0.40	5.2	0.8	0.4	58.0	<0.01	<0.01	1.2
FGL084 01+50N		1.02	12.4	510	4.6	12.7	<0.001	0.01	0.39	3.5	0.3	0.4	30.6	<0.01	0.01	1.5
FGL084 02+00N		0.98	10.7	270	4.7	10.8	<0.001	0.01	0.38	2.1	0.2	0.4	14.2	<0.01	0.02	0.5
FGL084 02+50N		1.21	11.4	400	5.6	12.2	<0.001	0.01	0.59	3.4	0.3	0.5	21.6	<0.01	0.01	1.5
FGL084 03+00N		1.62	13.2	540	7.3	15.9	<0.001	0.01	0.66	4.8	0.5	0.6	19.2	<0.01	0.02	2.0
FGL084 03+50N		1.74	18.9	350	6.5	12.2	<0.001	0.01	0.46	4.7	0.5	0.6	21.4	<0.01	0.03	2.2
FGL084 04+00N		1.11	16.3	460	5.5	8.0	<0.001	0.01	0.37	4.4	0.4	0.5	21.9	<0.01	0.02	2.2
FGL084 04+50N		0.68	6.5	420	4.6	6.5	<0.001	0.01	0.69	2.2	0.2	0.2	14.4	<0.01	0.01	0.5
FGL084 05+00N		1.10	12.1	330	5.0	7.7	<0.001	0.01	0.28	2.4	0.3	0.4	13.3	<0.01	0.02	1.0
FGL084 05+50N		1.77	17.9	630	6.7	11.4	<0.001	0.01	0.33	4.5	0.6	0.5	24.0	<0.01	0.02	2.1

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Th	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL083 00+00		0.090	0.07	0.32	56	0.26	2.93	42	0.6
FGL083 00+50N		0.079	0.07	0.41	57	0.16	2.93	47	2.4
FGL083 01+00N		0.070	0.08	0.35	50	0.14	2.95	41	0.7
FGL083 01+50N		0.107	0.08	0.38	59	0.14	2.79	45	0.9
FGL083 02+00N		0.072	0.06	0.31	47	0.15	2.16	36	0.6
FGL083 02+50N		0.092	0.08	0.38	56	0.15	3.37	46	0.9
FGL083 03+00N		0.075	0.07	0.37	52	0.17	2.74	39	0.5
FGL083 03+50N		0.097	0.09	0.37	67	0.14	3.19	60	1.6
FGL083 04+00N		0.070	0.10	0.48	59	0.29	4.36	63	0.8
FGL083 04+50N		0.078	0.06	0.63	50	0.13	7.70	52	1.2
FGL083 06+50N		0.021	0.04	0.32	17	0.07	1.80	17	<0.5
FGL083 07+00N		0.082	0.07	0.32	58	0.16	2.39	44	0.5
FGL083 07+50N		0.083	0.07	0.31	56	0.18	2.19	36	0.6
FGL083 08+00N		0.030	0.06	0.38	32	0.08	2.60	26	<0.5
FGL083 08+50N		0.037	0.06	0.41	48	0.20	5.22	49	<0.5
FGL083 09+50N		0.051	0.06	2.16	39	0.49	5.72	42	0.9
FGL083 10+00N		0.067	0.09	0.95	54	0.16	4.13	50	0.7
FGL083 10+50N		0.074	0.07	0.61	57	0.22	3.40	51	1.0
FGL083 11+00N		0.067	0.07	0.84	47	0.12	4.26	43	<0.5
FGL083 11+50N		0.117	0.08	0.83	69	0.14	5.43	66	1.3
FGL083 12+00N		0.098	0.06	0.82	55	0.12	5.28	57	1.0
FGL083 13+00N		0.067	0.07	0.59	49	0.31	3.90	44	0.5
FGL083 14+50N		0.036	0.04	1.05	36	0.08	9.57	60	0.9
FGL083 18+50N		0.061	0.08	1.25	59	0.12	7.65	51	1.2
FGL083 20+00N		0.048	0.05	0.40	46	0.18	3.27	46	<0.5
FGL083 20+50N		0.076	0.08	0.39	59	0.69	2.63	36	0.5
FGL083 21+00N		0.076	0.06	1.77	80	0.15	12.90	93	1.4
FGL083 22+50N		0.041	0.05	0.59	43	0.09	4.30	44	<0.5
FGL084 00+00		0.085	0.07	0.34	66	0.15	2.73	63	0.5
FGL084 00+50N		0.097	0.08	0.37	61	0.14	3.34	54	0.9
FGL084 01+00N		0.068	0.11	0.76	59	0.15	11.60	51	1.1
FGL084 01+50N		0.076	0.10	0.39	48	0.11	3.86	45	0.6
FGL084 02+00N		0.059	0.08	0.29	42	0.15	2.37	37	<0.5
FGL084 02+50N		0.067	0.12	0.42	54	0.13	4.19	48	0.6
FGL084 03+00N		0.090	0.12	0.37	83	0.15	3.72	72	1.0
FGL084 03+50N		0.092	0.11	0.44	69	0.17	4.80	59	1.3
FGL084 04+00N		0.064	0.08	0.46	57	0.15	4.78	54	0.9
FGL084 04+50N		0.035	0.07	0.22	37	0.13	2.54	32	<0.5
FGL084 05+00N		0.045	0.07	0.31	43	0.17	3.00	35	<0.5
FGL084 05+50N		0.105	0.10	0.47	72	0.19	4.55	57	1.2

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL084 06+00N		0.52	0.0026	0.06	1.06	7.0	<0.02	<10	90	0.15	0.15	0.15	0.05	14.00	3.1	15
FGL084 06+50N		0.59	0.0007	0.04	1.22	4.2	<0.02	<10	110	0.25	0.06	0.24	0.04	10.75	4.8	12
FGL084 07+00N		0.58	0.0003	0.08	0.86	2.8	<0.02	<10	140	0.29	0.05	0.19	0.03	12.85	3.1	9
FGL084 07+50N		0.43	0.0007	0.27	1.83	5.0	<0.02	<10	350	0.59	0.13	0.30	0.06	21.4	4.8	16
FGL084 08+50N		0.54	0.0022	0.06	1.56	5.3	<0.02	<10	340	0.51	0.09	0.56	0.08	22.8	8.2	18
FGL084 09+00N		0.45	0.0005	0.08	1.15	3.2	<0.02	<10	230	0.30	0.09	0.34	0.08	12.10	3.8	12
FGL084 09+50N		0.54	0.0010	0.09	1.67	5.7	<0.02	<10	290	0.48	0.10	0.48	0.09	19.20	7.2	19
FGL084 10+00N		0.59	0.0011	0.05	1.87	13.6	<0.02	<10	270	0.52	0.11	0.59	0.10	21.7	7.7	22
FGL084 10+50N		0.56	0.0013	0.07	1.96	12.0	<0.02	<10	290	0.64	0.09	0.63	0.07	23.3	6.6	19
FGL084 11+00N		0.53	0.0008	0.05	1.32	7.4	<0.02	<10	140	0.40	0.07	0.47	0.08	21.4	6.3	16
FGL084 11+50N		0.42	0.0008	0.15	1.13	5.3	<0.02	<10	160	0.31	0.08	0.34	0.10	20.5	4.3	14
FGL084 12+50N		<0.02	0.0005	0.12	0.83	14.5	<0.02	<10	60	0.24	0.04	0.25	0.04	9.33	3.9	7
FGL084 13+50N		0.76	0.0009	0.11	1.54	26.1	<0.02	<10	140	0.40	0.06	0.48	0.07	19.35	6.8	14
FGL084 17+50N		0.48	0.0006	0.07	2.27	8.6	<0.02	<10	230	0.64	0.06	0.92	0.05	19.05	6.8	10
FGL084 18+00N		0.45	0.0002	0.05	4.95	22.4	<0.02	<10	360	0.67	0.08	1.08	0.08	18.35	17.0	17
FGL084 18+50N		0.41	0.0020	0.02	2.15	11.7	<0.02	<10	140	0.35	0.16	0.24	0.09	17.05	7.6	27
FGL084 19+00N		0.33	0.0006	0.03	1.23	6.0	<0.02	<10	80	0.21	0.12	0.33	0.06	13.40	4.0	12
FGL084 19+50N		0.41	0.0024	0.04	1.97	9.5	<0.02	<10	150	0.38	0.18	0.19	0.19	15.95	7.5	25
FGL084 20+00N		0.51	0.0008	0.06	2.81	12.7	<0.02	<10	200	0.69	0.12	0.64	0.06	18.75	10.9	59
FGL084 20+50N		0.54	0.0038	0.12	1.47	18.9	0.04	<10	340	0.67	0.14	0.60	0.11	28.2	15.8	39
FGL084 21+00N		0.39	0.0020	0.02	3.07	10.9	<0.02	<10	160	0.60	0.13	0.57	0.06	20.6	11.6	40
FGL084 21+50N		0.57	0.0032	0.05	1.73	14.6	<0.02	<10	230	0.44	0.12	0.40	0.04	19.95	7.5	30
FGL084 22+00N		0.41	0.0108	0.16	1.21	6.6	<0.02	<10	320	0.50	0.08	0.70	0.16	24.3	6.3	18
FGL085 00+00		0.49	0.0013	0.13	1.71	9.9	<0.02	<10	460	0.66	0.14	0.44	0.12	48.4	8.1	19
FGL085 00+50S		0.54	0.0019	0.07	1.56	8.2	<0.02	<10	230	0.37	0.15	0.26	0.10	19.70	5.2	23
FGL085 01+00S		0.33	0.0010	0.03	1.98	11.4	<0.02	<10	130	0.29	0.18	0.15	0.10	16.55	5.7	31
FGL085 01+50S		0.53	0.0029	0.03	2.95	22.3	<0.02	<10	110	0.55	0.19	0.38	0.10	19.65	10.3	40
FGL085 02+00S		0.59	0.0014	0.03	3.00	15.2	<0.02	<10	120	0.40	0.15	0.82	0.10	19.40	8.6	36
FGL085 02+50S		0.50	0.0012	0.02	2.44	13.1	<0.02	<10	120	0.37	0.20	0.28	0.11	16.50	7.2	29
FGL085 03+00S		0.56	0.0004	0.06	2.93	11.0	<0.02	<10	160	0.45	0.13	0.59	0.11	17.05	9.2	22
FGL085 03+50S		0.55	0.0010	0.04	3.01	13.2	<0.02	<10	230	0.58	0.16	0.43	0.11	22.4	11.6	28
FGL085 04+00S		0.71	0.0008	0.03	2.76	10.4	<0.02	<10	160	0.51	0.13	0.48	0.08	20.9	8.6	27
FGL085 04+50S		0.64	0.0006	0.10	3.38	11.1	<0.02	<10	270	0.96	0.05	1.47	0.04	30.8	12.3	10
FGL085 05+00S		0.53	0.0006	0.03	2.36	8.4	<0.02	<10	220	0.37	0.14	0.34	0.09	16.05	7.5	22
FGL085 06+00S		0.65	0.0007	0.03	2.39	9.2	<0.02	<10	210	0.31	0.11	0.43	0.13	14.35	9.1	20
FGL085 06+50S		0.61	0.0002	0.08	3.42	12.9	<0.02	<10	280	0.49	0.09	1.04	0.22	17.85	11.0	17
FGL085 08+00S		0.62	0.0004	0.05	2.07	8.7	<0.02	<10	270	0.40	0.08	0.82	0.07	22.1	5.7	10
FGL085 08+50S		0.72	0.0021	0.07	1.63	16.7	<0.02	<10	140	0.37	0.11	0.28	0.07	18.80	6.0	20
FGL085 09+00S		0.60	0.0008	0.09	1.79	11.0	<0.02	<10	140	0.37	0.12	0.29	0.10	20.7	6.3	23
FGL085 09+50S		0.79	0.0014	0.10	1.39	11.9	<0.02	<10	100	0.29	0.13	0.31	0.13	19.30	6.6	20

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL084 06+00N		0.61	9.6	1.59	6.73	<0.05	0.04	<0.01	0.016	0.04	7.7	5.4	0.25	107	0.65	<0.01	
FGL084 06+50N		0.75	8.7	1.53	4.62	<0.05	0.03	<0.01	0.016	0.05	5.3	7.8	0.34	181	0.29	0.01	
FGL084 07+00N		0.89	9.0	1.01	3.19	<0.05	0.03	0.02	0.010	0.04	8.2	4.3	0.16	129	0.22	0.02	
FGL084 07+50N		2.54	14.5	1.75	5.80	0.06	0.05	0.06	0.021	0.07	16.3	9.6	0.26	225	0.37	0.01	
FGL084 08+50N		1.30	9.6	2.22	5.70	0.05	0.06	0.01	0.025	0.05	12.9	11.6	0.49	406	0.42	0.01	
FGL084 09+00N		1.28	12.2	1.27	4.06	<0.05	0.04	0.02	0.015	0.04	8.0	6.0	0.23	160	0.33	0.02	
FGL084 09+50N		1.26	12.1	1.91	5.73	0.05	0.05	0.02	0.021	0.05	13.1	10.8	0.44	353	0.40	0.01	
FGL084 10+00N		1.93	13.4	2.25	6.58	0.05	0.04	0.05	0.021	0.06	13.5	13.7	0.54	354	0.41	0.01	
FGL084 10+50N		2.30	12.7	2.06	6.62	0.05	0.04	0.03	0.022	0.06	16.6	10.7	0.47	316	0.41	0.01	
FGL084 11+00N		7.40	9.4	1.98	5.20	0.05	0.04	0.02	0.022	0.08	12.0	10.1	0.46	383	0.31	0.01	
FGL084 11+50N		6.27	12.6	1.57	4.68	<0.05	0.03	0.04	0.017	0.04	12.8	7.2	0.30	185	0.36	0.01	
FGL084 12+50N		0.93	5.3	1.21	3.42	<0.05	0.03	0.05	0.011	0.04	5.5	4.5	0.20	202	0.19	0.02	
FGL084 13+50N		1.75	10.0	2.01	6.10	0.05	0.04	0.06	0.018	0.05	12.0	10.3	0.47	364	0.29	0.01	
FGL084 17+50N		1.38	10.6	2.21	8.15	0.07	0.05	0.03	0.022	0.06	13.7	13.4	0.61	383	0.21	0.02	
FGL084 18+00N		2.35	21.1	4.43	16.80	0.06	0.11	<0.01	0.046	0.12	8.0	27.3	1.37	814	0.38	0.01	
FGL084 18+50N		1.28	21.8	3.16	8.48	<0.05	0.06	<0.01	0.025	0.06	8.7	16.7	0.49	272	0.78	0.01	
FGL084 19+00N		0.92	11.4	1.49	6.23	<0.05	0.03	<0.01	0.014	0.04	7.0	7.5	0.27	196	0.34	0.01	
FGL084 19+50N		1.17	15.0	2.94	7.24	<0.05	0.04	<0.01	0.029	0.06	8.5	14.7	0.33	244	0.77	0.01	
FGL084 20+00N		2.75	24.6	3.01	9.66	<0.05	0.06	<0.01	0.032	0.07	9.2	21.8	0.81	352	0.43	0.01	
FGL084 20+50N		2.63	31.6	4.51	5.77	0.06	0.06	0.02	0.042	0.05	12.9	8.9	0.34	1340	0.59	<0.01	
FGL084 21+00N		1.41	25.0	2.92	8.24	0.05	0.09	<0.01	0.032	0.08	9.3	16.4	0.69	406	0.52	0.01	
FGL084 21+50N		1.32	15.1	2.37	6.22	<0.05	0.04	0.02	0.025	0.05	11.7	10.9	0.49	337	0.43	0.01	
FGL084 22+00N		1.81	11.4	1.52	4.74	0.06	0.05	0.04	0.016	0.08	15.1	8.9	0.37	498	0.28	0.02	
FGL085 00+00		2.00	18.6	2.29	5.97	0.10	0.05	0.03	0.025	0.09	36.3	14.4	0.40	581	0.44	0.01	
FGL085 00+50S		1.31	11.9	2.08	6.20	<0.05	0.04	<0.01	0.019	0.04	11.3	11.0	0.35	198	0.51	<0.01	
FGL085 01+00S		1.62	18.4	3.39	7.80	<0.05	0.05	0.01	0.025	0.05	8.7	16.5	0.38	179	0.82	<0.01	
FGL085 01+50S		1.83	36.8	3.65	16.70	0.05	0.06	0.02	0.035	0.07	9.6	19.9	0.63	338	1.08	0.01	
FGL085 02+00S		2.14	27.3	2.97	9.56	<0.05	0.06	0.01	0.027	0.10	9.1	17.7	0.63	358	0.71	0.01	
FGL085 02+50S		1.33	29.6	3.28	10.65	<0.05	0.05	0.01	0.028	0.07	8.2	17.7	0.43	247	1.08	0.01	
FGL085 03+00S		1.29	13.1	2.86	10.60	<0.05	0.05	0.01	0.025	0.07	8.4	16.8	0.67	410	0.60	0.01	
FGL085 03+50S		1.80	26.0	3.02	9.46	<0.05	0.06	0.03	0.032	0.11	9.8	17.6	0.70	485	0.63	0.01	
FGL085 04+00S		1.23	11.9	2.92	8.79	<0.05	0.05	0.01	0.024	0.07	10.5	17.0	0.62	330	0.55	0.01	
FGL085 04+50S		4.83	8.2	3.52	13.55	0.06	0.05	0.01	0.040	0.08	11.4	15.1	0.97	870	0.25	0.02	
FGL085 05+00S		1.31	20.0	2.43	8.29	<0.05	0.05	0.01	0.024	0.08	7.9	13.4	0.46	291	0.69	0.01	
FGL085 06+00S		3.27	22.2	2.46	7.88	<0.05	0.04	0.01	0.024	0.08	6.4	14.6	0.57	477	0.57	0.02	
FGL085 06+50S		3.44	14.3	3.16	12.75	<0.05	0.09	0.01	0.037	0.08	7.9	19.1	0.98	648	0.37	0.01	
FGL085 08+00S		1.57	12.4	1.50	7.67	<0.05	0.04	0.02	0.014	0.05	13.0	8.3	0.35	369	0.36	0.01	
FGL085 08+50S		1.70	13.6	1.94	5.92	<0.05	0.03	0.03	0.019	0.06	10.1	11.2	0.40	218	0.42	0.01	
FGL085 09+00S		2.14	11.3	2.17	6.54	0.05	0.04	0.02	0.021	0.06	11.5	12.5	0.43	256	0.56	0.01	
FGL085 09+50S		3.65	9.0	2.38	7.96	<0.05	0.04	0.01	0.018	0.06	10.6	11.4	0.42	353	0.67	0.01	

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL084 06+00N		1.26	6.5	190	6.4	5.4	<0.001	0.01	0.28	1.8	0.3	0.6	14.3	<0.01	0.02	0.4	
FGL084 06+50N		0.54	6.5	530	4.0	7.2	<0.001	0.01	0.13	1.7	0.3	0.3	16.3	<0.01	0.01	0.3	
FGL084 07+00N		0.27	4.9	420	2.0	5.4	<0.001	0.01	0.11	1.3	0.4	0.2	15.4	<0.01	0.01	<0.2	
FGL084 07+50N		0.50	9.0	740	3.8	10.6	<0.001	0.03	0.11	4.3	0.7	0.3	23.0	<0.01	0.02	0.6	
FGL084 08+50N		0.73	11.2	940	4.9	7.7	<0.001	0.02	0.18	4.1	0.5	0.4	32.2	<0.01	0.01	1.3	
FGL084 09+00N		0.55	6.2	580	3.4	6.4	<0.001	0.03	0.12	2.1	0.3	0.3	23.4	<0.01	0.01	0.3	
FGL084 09+50N		0.81	10.6	760	5.0	8.2	<0.001	0.02	0.18	3.7	0.4	0.4	32.8	<0.01	0.01	0.8	
FGL084 10+00N		0.97	12.3	780	5.3	9.0	<0.001	0.02	0.22	3.9	0.5	0.4	39.0	0.01	0.01	1.1	
FGL084 10+50N		0.88	10.8	750	4.7	10.9	<0.001	0.02	0.19	3.7	0.5	0.4	44.1	0.01	0.01	0.8	
FGL084 11+00N		0.74	9.9	1050	4.7	10.1	<0.001	0.02	0.55	2.9	0.4	0.4	26.5	<0.01	0.01	1.2	
FGL084 11+50N		0.56	7.7	690	4.3	6.0	<0.001	0.03	0.29	1.7	0.4	0.3	23.3	<0.01	0.01	0.2	
FGL084 12+50N		0.39	4.0	570	4.2	4.1	<0.001	0.02	0.28	1.3	0.2	0.2	17.7	<0.01	0.01	0.3	
FGL084 13+50N		0.74	7.9	1000	8.5	7.7	<0.001	0.01	0.51	2.8	0.4	0.3	34.2	<0.01	0.01	0.9	
FGL084 17+50N		0.61	5.9	970	7.1	5.0	<0.001	0.02	0.38	4.9	0.5	0.3	69.2	0.01	0.02	0.8	
FGL084 18+00N		0.84	14.2	1110	8.2	8.5	<0.001	0.01	0.42	8.4	0.4	0.7	101.5	0.01	0.02	1.8	
FGL084 18+50N		1.93	13.8	380	11.5	8.2	<0.001	0.01	0.38	3.6	0.3	0.7	25.4	0.02	0.03	2.2	
FGL084 19+00N		1.02	5.6	420	5.8	6.3	<0.001	0.01	0.17	2.0	0.4	0.5	30.9	0.02	0.01	0.3	
FGL084 19+50N		1.60	12.3	490	9.2	10.3	<0.001	0.01	0.32	3.1	0.4	0.7	17.9	<0.01	0.02	1.5	
FGL084 20+00N		1.37	23.9	670	6.7	10.4	<0.001	0.01	0.23	5.4	0.4	0.6	44.7	0.01	0.02	1.7	
FGL084 20+50N		0.58	15.4	1670	23.6	8.4	<0.001	0.02	2.16	6.2	0.7	0.5	29.3	<0.01	0.02	2.0	
FGL084 21+00N		1.91	20.4	580	8.0	9.3	<0.001	0.01	0.30	4.9	0.4	0.6	38.2	0.01	0.02	2.6	
FGL084 21+50N		0.99	11.3	610	6.1	6.9	<0.001	0.01	0.43	3.9	0.5	0.4	23.4	<0.01	0.03	1.8	
FGL084 22+00N		0.61	8.5	740	10.0	8.0	<0.001	0.03	0.44	3.0	0.6	0.2	33.5	<0.01	0.02	0.8	
FGL085 00+00		0.70	10.4	700	8.5	10.4	<0.001	0.03	0.24	3.4	1.0	0.3	35.1	<0.01	0.05	1.7	
FGL085 00+50S		1.41	9.8	340	7.8	7.2	<0.001	0.01	0.18	3.1	0.5	0.5	19.2	<0.01	0.02	1.8	
FGL085 01+00S		2.34	11.6	460	9.1	9.6	<0.001	0.01	0.33	2.8	0.4	0.6	15.6	0.01	0.03	1.4	
FGL085 01+50S		2.08	19.3	550	11.7	8.2	<0.001	0.01	0.40	5.1	0.4	1.0	32.9	0.02	0.04	2.1	
FGL085 02+00S		1.51	16.9	780	7.3	11.0	<0.001	0.01	0.27	4.1	0.4	0.6	74.1	0.01	0.02	2.1	
FGL085 02+50S		1.94	15.2	540	9.3	9.6	<0.001	0.01	0.47	3.3	0.3	0.7	31.6	0.02	0.03	1.3	
FGL085 03+00S		1.46	12.5	430	8.6	7.8	<0.001	0.01	0.32	4.1	0.4	0.7	58.1	0.01	0.01	1.8	
FGL085 03+50S		1.10	17.8	450	9.8	11.8	<0.001	<0.01	0.61	5.3	0.3	0.6	40.0	0.01	0.02	2.6	
FGL085 04+00S		1.40	14.9	580	7.7	7.8	<0.001	0.01	0.27	4.5	0.3	0.6	41.9	0.01	0.01	1.9	
FGL085 04+50S		0.34	7.7	1760	6.5	6.7	<0.001	0.01	0.91	6.8	0.4	0.5	124.0	<0.01	0.01	1.6	
FGL085 05+00S		1.48	12.8	420	8.3	7.5	<0.001	0.01	0.30	3.4	0.3	0.6	34.8	0.02	0.02	1.6	
FGL085 06+00S		1.11	13.3	560	7.3	10.1	<0.001	0.01	0.38	3.2	0.2	0.5	43.3	0.01	0.02	0.8	
FGL085 06+50S		0.93	11.8	750	10.1	7.7	<0.001	0.01	0.52	5.7	0.3	0.6	96.4	0.01	<0.01	1.6	
FGL085 08+00S		0.87	5.8	480	7.1	9.0	<0.001	0.01	0.22	2.8	0.2	0.4	95.9	0.01	0.01	1.2	
FGL085 08+50S		0.90	12.4	590	8.4	8.3	<0.001	0.01	0.28	2.5	0.3	0.4	22.0	<0.01	0.01	0.8	
FGL085 09+00S		1.28	12.7	450	12.7	10.2	<0.001	0.01	0.37	3.1	0.3	0.5	21.5	<0.01	0.01	2.1	
FGL085 09+50S		1.08	10.6	580	18.3	12.6	<0.001	0.01	0.62	2.5	0.2	0.5	23.8	<0.01	0.02	0.9	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL084 06+00N		0.087	0.07	0.31	55	0.10	2.08	28	<0.5
FGL084 06+50N		0.034	0.07	0.24	38	0.11	2.42	37	<0.5
FGL084 07+00N		0.030	0.05	0.29	28	0.07	4.60	23	<0.5
FGL084 07+50N		0.027	0.08	0.86	49	0.10	11.65	36	0.6
FGL084 08+50N		0.026	0.08	0.59	49	0.17	7.05	49	0.8
FGL084 09+00N		0.022	0.07	0.51	33	0.12	4.60	27	<0.5
FGL084 09+50N		0.045	0.07	0.66	47	0.17	7.37	46	0.5
FGL084 10+00N		0.063	0.08	0.66	57	0.14	6.56	55	0.5
FGL084 10+50N		0.056	0.08	0.80	51	0.24	6.85	51	<0.5
FGL084 11+00N		0.053	0.10	0.54	44	0.13	5.17	62	<0.5
FGL084 11+50N		0.040	0.10	0.61	39	0.12	5.07	41	<0.5
FGL084 12+50N		0.044	0.06	0.29	33	0.07	2.21	34	<0.5
FGL084 13+50N		0.067	0.10	0.58	48	0.14	4.43	56	<0.5
FGL084 17+50N		0.070	0.04	0.90	57	0.11	11.40	57	0.7
FGL084 18+00N		0.108	0.06	0.62	97	0.11	5.26	123	2.3
FGL084 18+50N		0.103	0.08	0.43	75	0.21	2.99	51	1.3
FGL084 19+00N		0.076	0.07	0.37	44	0.13	2.94	26	<0.5
FGL084 19+50N		0.069	0.09	0.38	68	0.25	2.59	52	<0.5
FGL084 20+00N		0.068	0.07	0.61	66	0.12	5.01	48	1.0
FGL084 20+50N		0.024	0.15	0.96	85	0.14	8.30	96	0.6
FGL084 21+00N		0.117	0.10	0.50	72	0.24	3.70	62	1.7
FGL084 21+50N		0.026	0.08	0.58	53	0.12	6.13	42	0.5
FGL084 22+00N		0.029	0.06	0.67	32	0.14	9.73	54	0.5
FGL085 00+00		0.032	0.07	1.47	47	0.12	17.65	57	<0.5
FGL085 00+50S		0.057	0.09	0.52	55	0.17	4.36	36	0.5
FGL085 01+00S		0.101	0.09	0.36	81	0.22	2.79	42	0.9
FGL085 01+50S		0.124	0.09	0.79	118	0.25	3.42	56	1.5
FGL085 02+00S		0.118	0.08	0.42	70	0.19	2.91	53	1.4
FGL085 02+50S		0.117	0.09	0.43	95	0.24	2.69	50	0.9
FGL085 03+00S		0.115	0.08	0.51	73	0.16	3.40	74	1.2
FGL085 03+50S		0.078	0.10	0.54	69	0.11	3.93	68	1.3
FGL085 04+00S		0.103	0.08	0.57	68	0.19	3.98	58	0.8
FGL085 04+50S		0.035	0.13	0.75	65	0.13	5.56	101	0.7
FGL085 05+00S		0.099	0.08	0.37	64	0.14	2.80	46	1.1
FGL085 06+00S		0.096	0.08	0.33	59	0.14	2.50	67	<0.5
FGL085 06+50S		0.087	0.05	0.42	72	0.08	4.31	83	2.0
FGL085 08+00S		0.039	0.06	0.50	40	0.15	4.54	34	<0.5
FGL085 08+50S		0.053	0.08	0.48	47	0.18	3.67	41	<0.5
FGL085 09+00S		0.073	0.11	0.48	55	0.15	3.73	48	0.6
FGL085 09+50S		0.077	0.12	0.42	69	0.16	3.30	57	<0.5

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL085 10+00S		0.42	0.0012	1.42	1.72	8.8	<0.02	<10	190	0.72	0.12	0.35	0.32	30.1	5.3	20
FGL085 10+50S		0.85	0.0009	4.21	1.42	7.2	<0.02	<10	170	0.39	0.09	0.40	0.22	25.0	5.6	17
FGL085 11+00S		0.81	0.0005	0.05	1.43	7.9	<0.02	<10	120	0.37	0.08	0.43	0.08	24.3	7.5	20
FGL085 11+50S		0.33	0.0006	0.12	1.71	5.6	<0.02	<10	120	0.50	0.07	0.63	0.07	18.95	5.2	14
FGL085 12+00S		0.55	0.0007	0.12	1.60	6.1	<0.02	<10	130	0.42	0.10	0.39	0.09	17.20	7.5	18
FGL085 12+50S		0.47	0.0006	0.06	1.60	6.8	<0.02	<10	120	0.39	0.11	0.27	0.08	18.00	5.2	19
FGL085 13+00S		0.94	0.0017	0.02	2.05	8.2	<0.02	<10	180	0.42	0.09	0.64	0.06	23.1	8.6	24
FGL085 13+50S		0.70	0.0017	0.08	1.83	8.8	<0.02	<10	240	0.58	0.14	0.34	0.08	26.4	7.4	25
FGL085 14+00S		0.75	0.0011	0.10	1.79	8.4	<0.02	<10	220	0.51	0.13	0.34	0.05	20.9	6.3	23
FGL085 14+50S		0.53	0.0014	0.10	1.95	7.7	<0.02	<10	210	0.84	0.19	0.41	0.09	30.4	8.2	27
FGL085 15+00S		0.19	0.0009	0.09	1.13	4.3	<0.02	<10	110	0.46	0.12	0.15	0.06	14.05	3.6	13
FGL085 16+00S		0.71	0.0016	0.06	1.91	8.8	<0.02	<10	140	0.40	0.12	0.28	0.10	17.35	7.1	24
FGL085 16+50S		0.65	0.0012	0.06	2.31	8.7	<0.02	<10	210	0.61	0.14	0.39	0.07	23.0	7.8	26
FGL085 17+50S		0.70	0.0017	0.04	1.94	8.5	<0.02	<10	140	0.31	0.18	0.22	0.12	18.50	6.3	20
FGL085 18+00S		0.44	0.0029	0.03	2.68	10.3	<0.02	<10	150	0.51	0.19	0.28	0.11	22.0	11.4	34
FGL085 18+50S		0.54	0.0014	0.04	2.06	9.5	<0.02	<10	160	0.52	0.16	0.32	0.06	22.4	7.7	27
FGL085 19+00S		0.63	0.0006	0.04	1.85	10.2	<0.02	<10	150	0.77	0.15	0.24	0.07	22.5	8.1	27
FGL085 19+50S		0.74	0.0014	0.07	2.05	9.2	<0.02	<10	210	1.10	0.14	0.40	0.06	33.4	8.5	31
FGL085 20+00S		0.72	0.0010	0.03	1.57	21.1	<0.02	<10	330	0.43	0.09	0.42	0.06	25.7	8.0	24
FGL085 20+50S		0.72	0.0010	0.03	1.31	11.8	<0.02	<10	250	0.26	0.11	0.29	0.05	19.40	6.1	21
FGL085 21+00S		0.67	0.0020	0.03	1.98	15.4	<0.02	<10	320	0.45	0.13	0.34	0.06	23.7	8.5	28
FGL085 21+50S		0.66	0.0015	0.05	2.01	17.2	<0.02	<10	370	0.51	0.12	0.29	0.07	24.2	9.8	27
FGL085 22+00S		0.78	0.0004	0.03	1.75	117.5	<0.02	<10	310	0.62	0.05	0.42	0.04	44.2	11.3	17
FGL086 00+00		0.56	0.0017	0.27	1.10	7.4	<0.02	<10	350	0.35	0.17	0.43	0.10	22.6	7.6	23
FGL086 00+50S		0.48	0.0033	0.25	2.09	10.8	<0.02	<10	540	0.89	0.15	0.75	0.03	33.7	10.9	34
FGL086 01+00S		0.53	0.0007	0.04	2.75	20.7	<0.02	<10	130	0.75	0.16	0.39	0.11	20.8	8.3	35
FGL086 01+50S		0.81	0.0012	0.04	2.55	13.6	<0.02	<10	250	0.58	0.12	0.53	0.09	22.0	10.5	36
FGL086 02+00S		0.56	0.0007	0.06	2.79	10.8	<0.02	<10	170	0.66	0.12	0.41	0.09	23.4	9.3	35
FGL086 02+50S		0.78	0.0003	0.05	2.19	10.3	<0.02	<10	120	0.36	0.12	0.43	0.09	14.30	7.2	33
FGL086 03+00S		0.66	0.0004	0.04	3.69	17.7	<0.02	<10	170	0.57	0.11	1.15	0.10	16.90	11.3	15
FGL086 03+50S		0.65	0.0004	0.04	3.34	11.1	<0.02	<10	190	0.61	0.09	0.79	0.07	15.65	9.1	21
FGL086 04+00S		0.67	0.0007	0.05	3.69	14.3	<0.02	<10	180	0.53	0.11	0.51	0.11	17.15	13.0	25
FGL086 04+50S		0.61	0.0006	0.04	2.65	10.9	<0.02	<10	160	0.46	0.16	0.35	0.15	18.70	10.7	23
FGL086 05+00S		0.67	0.0008	0.04	1.89	7.9	<0.02	<10	120	0.27	0.16	0.23	0.11	16.15	8.1	22
FGL086 05+50S		0.64	0.0002	0.04	2.69	64.6	<0.02	<10	250	0.84	0.07	0.76	0.10	36.2	18.6	18
FGL086 06+00S		0.59	0.0031	0.04	2.40	12.0	<0.02	<10	150	0.31	0.16	0.18	0.20	18.35	8.2	28
FGL086 06+50S		0.47	0.0004	0.26	2.53	10.2	<0.02	<10	160	0.36	0.23	0.20	0.11	15.60	9.1	23
FGL086 07+00S		0.43	0.0019	0.10	1.45	4.9	<0.02	<10	240	0.40	0.08	0.71	0.20	28.2	7.6	20
FGL086 07+50S		0.45	0.0007	0.15	1.67	6.9	<0.02	<10	240	0.57	0.08	0.46	0.09	22.2	5.6	15
FGL086 08+00S		0.76	0.0012	0.12	1.95	9.5	<0.02	<10	250	0.64	0.11	0.41	0.05	24.2	8.8	25

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL085 10+00S		9.15	23.8	2.06	6.87	0.05	0.03	0.08	0.020	0.06	20.2	12.4	0.38	275	0.58	0.01
FGL085 10+50S		11.70	14.6	1.99	7.01	<0.05	0.03	0.07	0.021	0.06	15.1	10.4	0.47	368	0.53	0.01
FGL085 11+00S		14.30	7.5	2.37	6.19	0.05	0.04	0.01	0.024	0.07	13.0	12.6	0.52	485	0.49	0.01
FGL085 11+50S		4.47	11.7	1.60	6.73	0.05	0.02	0.04	0.016	0.05	11.5	8.1	0.34	266	0.43	0.02
FGL085 12+00S		1.32	13.4	2.02	7.50	<0.05	0.04	0.03	0.018	0.05	10.4	9.2	0.34	477	0.57	0.02
FGL085 12+50S		0.99	12.1	1.98	7.67	<0.05	0.04	0.02	0.016	0.05	10.8	9.6	0.42	202	0.52	0.01
FGL085 13+00S		1.16	9.6	2.56	7.39	<0.05	0.05	0.02	0.020	0.09	12.5	15.5	0.74	388	0.38	0.01
FGL085 13+50S		2.41	15.6	2.15	6.04	0.05	0.04	0.08	0.022	0.06	16.7	12.0	0.48	305	0.47	0.01
FGL085 14+00S		2.03	13.9	2.01	6.39	0.05	0.03	0.06	0.021	0.06	12.2	11.0	0.42	253	0.50	0.02
FGL085 14+50S		2.16	15.5	2.32	6.86	0.06	0.05	0.05	0.025	0.05	18.3	16.2	0.61	324	0.40	0.01
FGL085 15+00S		1.25	14.5	1.29	4.45	<0.05	0.03	0.03	0.012	0.04	6.8	6.6	0.20	190	0.50	0.02
FGL085 16+00S		1.56	15.3	2.52	8.76	<0.05	0.04	0.02	0.020	0.06	8.9	11.7	0.53	239	0.62	0.01
FGL085 16+50S		1.45	16.2	2.43	7.87	<0.05	0.04	0.02	0.023	0.07	11.6	13.5	0.56	307	0.51	0.01
FGL085 17+50S		1.43	14.4	2.67	10.20	<0.05	0.04	0.01	0.021	0.06	9.4	11.5	0.41	320	0.87	<0.01
FGL085 18+00S		1.63	19.2	3.01	7.54	0.05	0.09	0.02	0.027	0.10	10.4	17.7	0.76	325	0.59	0.01
FGL085 18+50S		3.43	15.1	2.47	7.22	<0.05	0.05	0.01	0.022	0.07	12.3	13.9	0.58	319	0.55	0.01
FGL085 19+00S		1.90	19.0	2.43	6.66	0.05	0.06	0.02	0.023	0.07	11.9	15.2	0.48	410	0.73	0.01
FGL085 19+50S		4.06	21.0	2.61	6.54	0.06	0.05	0.02	0.027	0.08	16.6	17.5	0.63	360	0.48	0.01
FGL085 20+00S		2.05	14.0	2.43	5.59	0.05	0.06	0.04	0.022	0.06	13.0	15.1	0.62	379	0.36	0.01
FGL085 20+50S		1.51	11.5	1.98	5.96	<0.05	0.04	0.02	0.017	0.05	10.8	12.0	0.49	289	0.41	0.01
FGL085 21+00S		1.97	14.8	2.60	6.67	<0.05	0.05	0.03	0.022	0.07	13.1	17.7	0.64	459	0.50	0.01
FGL085 21+50S		1.86	16.1	2.60	7.15	<0.05	0.04	0.02	0.025	0.07	12.8	14.5	0.56	548	0.56	0.01
FGL085 22+00S		1.33	5.5	3.70	7.73	0.13	0.04	0.21	0.031	0.07	23.5	8.5	0.52	510	0.57	0.01
FGL086 00+00		1.14	12.3	1.80	4.07	0.11	0.03	0.04	0.015	0.06	13.4	7.7	0.33	351	0.36	0.02
FGL086 00+50S		1.83	19.4	2.87	8.17	0.14	0.08	0.06	0.029	0.06	22.4	14.8	0.82	540	0.34	0.02
FGL086 01+00S		1.43	19.9	3.34	12.75	0.11	0.06	0.02	0.026	0.05	10.4	14.3	0.45	329	0.82	0.02
FGL086 01+50S		2.12	24.0	2.63	7.51	0.11	0.05	0.02	0.026	0.08	10.2	12.9	0.62	386	0.52	0.02
FGL086 02+00S		1.35	18.6	2.69	7.99	0.12	0.06	0.02	0.025	0.07	12.3	15.6	0.57	233	0.56	0.02
FGL086 02+50S		1.32	12.5	2.36	8.09	0.11	0.04	0.01	0.018	0.06	6.8	13.5	0.52	253	0.49	0.02
FGL086 03+00S		1.57	18.4	2.85	14.25	0.12	0.08	0.01	0.026	0.07	7.9	18.1	0.62	926	0.59	0.02
FGL086 03+50S		1.24	12.8	2.45	9.43	0.12	0.07	0.02	0.029	0.08	7.4	14.7	0.58	375	0.42	0.02
FGL086 04+00S		1.37	22.9	3.41	11.55	0.11	0.07	0.02	0.035	0.09	9.6	20.0	0.86	580	0.58	0.02
FGL086 04+50S		1.90	14.3	3.24	11.25	0.11	0.05	0.01	0.028	0.09	10.0	16.2	0.61	515	0.78	0.01
FGL086 05+00S		1.50	10.9	2.95	9.21	0.11	0.05	0.01	0.022	0.09	8.3	12.6	0.54	429	0.79	0.01
FGL086 05+50S		4.21	10.3	4.81	12.10	0.13	0.06	0.02	0.072	0.13	12.4	21.3	1.18	1180	0.51	0.01
FGL086 06+00S		2.91	18.4	3.03	9.03	0.10	0.05	0.02	0.026	0.06	9.2	17.3	0.45	281	0.86	0.01
FGL086 06+50S		1.71	15.5	2.73	8.52	0.10	0.11	0.01	0.027	0.09	8.0	14.2	0.60	331	0.75	0.01
FGL086 07+00S		1.78	13.8	1.57	5.06	0.13	0.05	0.08	0.017	0.04	15.9	9.8	0.44	435	0.24	0.02
FGL086 07+50S		1.49	12.9	1.64	6.18	0.11	0.03	0.04	0.018	0.06	13.1	10.2	0.35	322	0.37	0.02
FGL086 08+00S		2.06	11.4	2.35	6.29	0.12	0.07	0.02	0.024	0.06	14.4	12.9	0.55	270	0.41	0.01

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To: TRIUMPH GOLD CORP.
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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL085 10+00S		0.71	11.2	570	46.1	14.6	<0.001	0.02	0.83	2.1	0.5	0.5	27.4	<0.01	0.02	<0.2
FGL085 10+50S		0.80	8.7	830	97.7	9.7	<0.001	0.01	2.41	3.0	0.3	0.5	25.7	<0.01	0.01	1.0
FGL085 11+00S		0.87	11.5	890	8.5	11.1	<0.001	0.01	0.89	3.5	0.3	0.4	27.0	<0.01	0.01	2.3
FGL085 11+50S		0.50	8.6	630	4.7	8.6	<0.001	0.02	0.15	2.1	0.3	0.3	51.7	<0.01	0.01	0.2
FGL085 12+00S		0.61	8.5	720	5.7	12.8	<0.001	0.03	0.18	1.9	0.4	0.4	29.9	<0.01	0.01	0.2
FGL085 12+50S		0.90	9.8	390	5.8	11.1	<0.001	0.01	0.22	2.3	0.2	0.5	25.4	<0.01	0.01	0.4
FGL085 13+00S		0.97	14.2	1080	5.2	11.5	<0.001	0.01	0.22	3.7	0.4	0.4	41.6	0.01	0.01	2.2
FGL085 13+50S		0.77	13.7	900	5.8	9.4	<0.001	0.02	0.21	3.3	0.6	0.4	24.9	<0.01	0.01	0.7
FGL085 14+00S		0.71	12.8	570	5.1	9.3	<0.001	0.02	0.20	3.1	0.4	0.4	24.7	<0.01	0.02	0.4
FGL085 14+50S		0.84	15.9	1220	6.8	8.3	<0.001	0.03	0.27	3.2	0.6	0.5	33.1	<0.01	0.01	0.9
FGL085 15+00S		0.47	6.9	520	4.9	6.5	<0.001	0.03	0.22	1.0	0.2	0.3	18.5	<0.01	0.01	<0.2
FGL085 16+00S		1.24	12.5	500	6.8	10.0	<0.001	0.01	0.31	3.2	0.3	0.6	23.6	<0.01	0.01	0.6
FGL085 16+50S		1.12	15.5	580	7.4	10.4	<0.001	0.01	0.27	3.8	0.4	0.5	32.5	<0.01	0.01	1.1
FGL085 17+50S		1.56	10.8	390	9.4	10.1	<0.001	0.01	0.33	3.2	0.2	0.7	27.0	<0.01	0.02	1.6
FGL085 18+00S		1.64	24.1	510	7.3	13.9	<0.001	0.01	0.50	4.3	0.4	0.5	24.1	<0.01	0.02	2.8
FGL085 18+50S		1.22	15.7	500	6.8	11.5	<0.001	0.01	0.39	3.7	0.3	0.5	24.7	<0.01	0.02	1.8
FGL085 19+00S		1.59	17.2	370	6.9	11.4	<0.001	0.01	0.42	3.3	0.4	0.6	27.3	<0.01	0.02	2.4
FGL085 19+50S		1.36	19.2	650	7.1	11.0	<0.001	0.01	0.56	4.3	0.6	0.6	31.3	<0.01	0.02	2.8
FGL085 20+00S		0.81	16.5	740	7.6	8.0	<0.001	0.01	0.39	4.4	0.3	0.4	30.1	<0.01	0.01	1.9
FGL085 20+50S		1.00	10.7	410	5.4	9.9	<0.001	0.01	0.24	3.0	0.3	0.4	21.4	<0.01	0.01	1.2
FGL085 21+00S		1.04	17.1	550	5.6	11.5	<0.001	0.01	0.33	4.4	0.4	0.4	27.0	<0.01	0.02	1.7
FGL085 21+50S		1.07	15.0	450	6.9	12.6	<0.001	0.01	0.32	4.3	0.4	0.5	25.2	<0.01	0.02	2.0
FGL085 22+00S		0.50	9.8	1010	5.9	12.8	<0.001	<0.01	0.35	4.6	0.5	0.4	27.7	<0.01	<0.01	2.1
FGL086 00+00		0.77	12.3	530	10.9	5.7	<0.001	<0.01	0.44	2.7	0.6	0.3	25.4	<0.01	0.05	1.0
FGL086 00+50S		1.26	16.2	1020	12.1	8.5	<0.001	<0.01	0.76	6.2	1.0	0.5	39.2	<0.01	0.04	3.5
FGL086 01+00S		2.59	13.3	560	13.9	7.0	<0.001	0.02	0.34	4.6	0.5	0.8	31.5	0.01	0.06	1.7
FGL086 01+50S		1.21	21.4	500	7.1	10.1	<0.001	0.07	0.52	5.2	0.4	0.5	42.1	0.01	0.02	2.4
FGL086 02+00S		2.15	19.6	510	7.1	7.8	<0.001	0.09	0.32	4.1	0.4	0.5	34.1	0.01	0.02	2.6
FGL086 02+50S		1.61	13.9	430	6.7	9.8	<0.001	0.08	0.25	3.2	0.2	0.6	36.7	0.01	0.01	1.1
FGL086 03+00S		1.56	11.8	840	7.4	7.7	<0.001	0.06	0.21	3.7	0.2	0.5	113.5	<0.01	0.02	1.5
FGL086 03+50S		1.74	14.0	550	7.4	7.6	<0.001	0.06	0.30	4.4	0.4	0.5	81.7	<0.01	0.01	1.9
FGL086 04+00S		1.15	16.0	750	7.9	9.5	<0.001	0.05	0.27	5.5	0.4	0.6	47.9	0.01	0.02	2.1
FGL086 04+50S		1.65	13.9	1190	9.3	11.8	<0.001	0.05	0.29	4.3	0.3	0.7	31.4	0.01	0.02	1.7
FGL086 05+00S		1.62	9.8	960	8.6	14.1	<0.001	0.04	0.38	3.1	0.3	0.7	17.8	<0.01	0.02	1.2
FGL086 05+50S		0.39	11.9	2400	6.1	15.3	<0.001	0.03	2.42	9.6	0.5	0.9	31.5	<0.01	0.01	2.2
FGL086 06+00S		2.24	16.9	450	9.4	9.3	<0.001	0.03	0.39	3.4	0.4	0.6	23.6	0.01	0.03	1.8
FGL086 06+50S		1.46	13.9	280	8.0	8.4	<0.001	0.04	1.00	3.3	0.2	0.5	21.7	<0.01	0.02	2.2
FGL086 07+00S		1.08	10.6	930	6.3	8.5	0.001	0.10	0.36	3.4	0.6	0.3	58.7	<0.01	0.02	1.0
FGL086 07+50S		0.60	8.5	610	5.3	9.0	<0.001	0.06	0.23	2.0	0.4	0.4	50.5	<0.01	0.01	<0.2
FGL086 08+00S		1.22	13.6	530	12.2	8.6	<0.001	0.04	0.35	3.9	0.4	0.5	34.7	<0.01	0.01	3.3

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL085 10+00S		0.049	0.13	0.81	52	0.14	6.83	65	<0.5
FGL085 10+50S		0.064	0.18	0.62	55	0.13	4.84	78	<0.5
FGL085 11+00S		0.065	0.13	0.52	54	0.17	4.79	70	0.5
FGL085 11+50S		0.063	0.06	0.62	44	0.11	3.50	43	<0.5
FGL085 12+00S		0.074	0.06	0.58	59	0.15	3.42	45	<0.5
FGL085 12+50S		0.096	0.08	0.55	58	0.15	3.21	44	0.5
FGL085 13+00S		0.120	0.09	0.49	65	0.13	4.39	64	1.0
FGL085 13+50S		0.045	0.10	1.16	51	0.17	6.91	48	<0.5
FGL085 14+00S		0.055	0.10	0.83	50	0.17	6.05	43	<0.5
FGL085 14+50S		0.062	0.11	1.91	55	0.13	6.95	52	0.5
FGL085 15+00S		0.044	0.07	0.78	33	0.11	2.93	25	<0.5
FGL085 16+00S		0.113	0.07	0.44	73	0.13	3.53	47	0.6
FGL085 16+50S		0.076	0.09	0.56	59	0.14	5.02	50	0.5
FGL085 17+50S		0.086	0.07	0.40	73	0.11	2.58	51	0.8
FGL085 18+00S		0.121	0.10	0.52	71	0.15	3.57	60	2.2
FGL085 18+50S		0.066	0.10	0.52	65	0.14	3.82	48	0.9
FGL085 19+00S		0.090	0.09	0.86	59	0.17	4.06	43	1.3
FGL085 19+50S		0.091	0.11	2.80	64	0.15	8.53	54	1.2
FGL085 20+00S		0.068	0.07	0.83	56	0.11	7.22	53	0.9
FGL085 20+50S		0.077	0.08	0.47	54	0.13	4.41	38	0.5
FGL085 21+00S		0.086	0.08	0.63	61	0.14	6.47	54	0.8
FGL085 21+50S		0.063	0.08	0.56	61	0.21	5.96	52	0.6
FGL085 22+00S		0.019	0.07	0.44	75	0.42	7.15	71	<0.5
FGL086 00+00		0.037	0.06	0.77	37	0.12	6.92	46	<0.5
FGL086 00+50S		0.053	0.09	1.71	56	0.16	14.95	70	1.5
FGL086 01+00S		0.148	0.08	0.64	94	0.24	4.04	45	1.6
FGL086 01+50S		0.080	0.10	0.62	59	0.15	3.89	49	1.1
FGL086 02+00S		0.112	0.08	0.63	64	0.30	4.59	49	1.3
FGL086 02+50S		0.114	0.08	0.37	61	0.18	2.36	55	0.6
FGL086 03+00S		0.083	0.07	0.43	72	0.22	3.33	73	1.9
FGL086 03+50S		0.091	0.07	0.48	57	0.20	3.66	59	1.5
FGL086 04+00S		0.145	0.08	0.50	79	0.09	2.76	81	1.4
FGL086 04+50S		0.135	0.10	0.43	83	0.12	2.83	81	0.9
FGL086 05+00S		0.127	0.11	0.43	80	0.14	2.23	70	0.8
FGL086 05+50S		0.041	0.14	0.61	95	0.06	7.65	137	1.0
FGL086 06+00S		0.102	0.10	0.40	74	0.19	2.65	61	1.5
FGL086 06+50S		0.073	0.11	0.33	66	0.14	2.09	60	3.0
FGL086 07+00S		0.062	0.09	1.09	47	0.11	8.62	62	0.7
FGL086 07+50S		0.041	0.08	0.66	41	0.12	7.03	44	<0.5
FGL086 08+00S		0.073	0.12	0.65	53	0.13	4.91	53	1.7

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL086 08+50S		1.16	0.0013	0.05	2.47	8.2	<0.02	<10	230	0.56	0.07	1.04	0.05	20.7	6.8	16
FGL086 09+00S		0.85	0.0023	0.05	2.46	9.9	<0.02	<10	240	0.77	0.11	0.45	0.05	24.0	9.3	27
FGL086 09+50S		0.69	0.0039	0.07	2.12	11.3	<0.02	<10	140	0.52	0.12	0.18	0.09	23.8	7.1	25
FGL086 10+00S		0.75	0.0029	21.0	1.27	8.1	<0.02	<10	170	0.40	0.09	0.21	0.39	22.1	4.6	16
FGL086 10+50S		0.63	0.0017	8.09	1.59	4.9	<0.02	<10	150	0.43	0.07	0.40	0.26	21.9	5.6	16
FGL086 11+00S		0.44	0.0017	0.09	1.27	7.2	<0.02	<10	90	0.36	0.08	0.31	0.10	18.15	5.1	15
FGL086 11+50S		0.77	0.0010	0.05	1.98	11.9	<0.02	<10	150	0.51	0.11	0.39	0.07	25.8	8.4	25
FGL086 12+00S		0.76	0.0010	0.07	2.13	7.7	<0.02	<10	170	0.50	0.10	0.57	0.08	23.2	8.6	25
FGL086 13+00S		0.76	0.0014	0.05	2.42	11.1	<0.02	<10	170	0.55	0.10	0.64	0.07	24.0	9.2	24
FGL086 13+50S		0.47	0.0007	0.09	1.95	7.9	<0.02	<10	180	0.60	0.10	0.34	0.06	19.75	6.1	18
FGL086 14+00S		0.62	0.0050	0.06	1.45	7.1	0.03	<10	130	0.30	0.11	0.32	0.08	15.50	8.1	17
FGL086 14+50S		0.73	0.0008	0.04	2.17	11.2	<0.02	<10	200	0.41	0.11	0.49	0.09	19.65	9.5	25
FGL086 15+00S		0.68	0.0019	0.07	2.23	10.9	<0.02	<10	330	0.71	0.13	0.50	0.10	30.1	10.8	30
FGL086 15+50S		0.55	0.0006	0.03	2.03	8.2	<0.02	<10	150	0.35	0.12	0.35	0.08	19.05	8.4	24
FGL086 16+00S		0.59	0.0006	0.05	1.74	6.2	<0.02	<10	130	0.43	0.11	0.46	0.07	18.30	6.5	15
FGL086 16+50S		0.72	0.0010	0.05	2.10	7.4	<0.02	<10	160	0.57	0.13	0.27	0.07	23.4	7.7	25
FGL086 17+50S		0.71	0.0016	0.10	2.06	9.1	<0.02	<10	150	0.62	0.17	0.21	0.13	19.90	7.5	30
FGL086 18+00S		0.58	0.0011	0.05	1.91	9.4	<0.02	<10	130	0.48	0.10	0.17	0.08	16.65	6.1	24
FGL086 18+50S		0.68	0.0012	0.03	1.95	9.9	<0.02	<10	140	0.51	0.11	0.18	0.08	19.30	7.6	28
FGL086 19+00S		0.77	0.0008	0.03	2.33	10.4	<0.02	<10	150	0.50	0.16	0.19	0.09	18.05	8.3	23
FGL086 19+50S		0.70	0.0026	0.02	1.91	9.2	<0.02	<10	120	0.64	0.12	0.25	0.08	23.1	7.8	24
FGL086 20+00S		0.56	0.0005	0.03	1.58	8.7	<0.02	<10	320	0.52	0.11	0.25	0.06	21.6	6.2	18
FGL086 20+50S		0.69	0.0008	0.02	1.79	11.3	<0.02	<10	160	0.54	0.12	0.27	0.09	17.45	8.3	25
FGL086 21+00S		0.75	0.0011	0.02	2.29	6.0	<0.02	<10	250	0.73	0.05	0.68	0.03	34.3	11.6	18
FGL086 21+50S		0.61	0.0006	0.01	3.03	10.4	<0.02	<10	270	0.58	0.11	0.41	0.11	21.0	16.1	28
FGL086 22+00S		0.55	0.0101	0.04	2.60	6.6	<0.02	<10	220	0.74	0.04	1.12	0.04	30.3	12.9	24
FGL087 00+00		0.79	0.0008	0.04	1.39	11.9	<0.02	<10	170	0.33	0.11	0.24	0.06	21.0	6.5	20
FGL087 00+50S		0.63	0.0013	0.11	1.86	12.4	<0.02	<10	760	1.01	0.14	0.71	0.06	39.8	10.2	18
FGL087 01+00S		0.73	0.0021	0.03	2.88	14.5	<0.02	<10	170	0.58	0.11	0.38	0.11	20.5	10.6	29
FGL087 01+50S		0.65	0.0138	0.02	2.46	13.6	<0.02	<10	190	0.50	0.14	0.29	0.10	16.60	11.7	37
FGL087 02+00S		0.72	0.0009	0.05	2.48	12.6	<0.02	<10	160	0.49	0.10	0.64	0.06	15.75	8.6	31
FGL087 02+50S		0.63	0.0004	0.04	1.69	7.2	<0.02	<10	110	0.37	0.09	0.41	0.04	16.80	6.2	24
FGL087 03+00S		0.60	0.0006	0.07	1.49	6.9	<0.02	<10	160	0.46	0.09	0.37	0.08	24.3	8.2	18
FGL087 03+50S		0.63	0.0006	0.07	1.47	8.5	<0.02	<10	110	0.24	0.16	0.14	0.10	13.95	7.4	24
FGL087 04+00S		0.68	0.0003	0.03	1.73	10.0	<0.02	<10	130	0.38	0.13	0.28	0.10	17.45	8.0	20
FGL087 04+50S		0.81	0.0011	0.03	2.23	10.7	<0.02	<10	180	0.44	0.11	0.24	0.06	19.15	8.7	27
FGL087 05+00S		0.72	0.0009	0.02	1.93	10.5	<0.02	<10	150	0.39	0.12	0.20	0.06	17.40	8.4	25
FGL087 05+50S		0.86	0.0005	0.02	2.23	11.2	<0.02	<10	160	0.43	0.11	0.26	0.06	16.00	8.6	28
FGL087 06+50S		0.82	0.0007	0.03	0.97	6.2	<0.02	<10	120	0.30	0.08	0.42	0.07	22.4	6.1	19
FGL087 07+00S		0.78	0.0013	0.02	1.36	6.6	<0.02	<10	120	0.37	0.10	0.26	0.05	24.3	6.1	23

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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL086 08+50S		1.58	8.1	2.02	7.31	0.13	0.05	0.01	0.020	0.06	12.4	12.4	0.55	343	0.30	0.01
FGL086 09+00S		2.19	11.9	2.57	7.15	0.12	0.05	0.02	0.028	0.06	14.1	14.1	0.59	368	0.47	0.01
FGL086 09+50S		3.02	10.8	2.48	6.87	0.11	0.05	0.02	0.023	0.05	12.4	13.8	0.38	202	0.74	0.01
FGL086 10+00S		4.33	15.3	1.65	5.71	0.11	0.04	0.24	0.015	0.06	13.6	7.8	0.27	288	0.43	0.01
FGL086 10+50S		12.40	15.6	1.66	6.24	0.10	0.03	0.18	0.020	0.05	12.8	8.8	0.33	373	0.38	0.02
FGL086 11+00S		5.26	10.5	1.83	5.84	0.10	0.03	0.03	0.016	0.05	10.2	7.8	0.29	319	0.45	0.02
FGL086 11+50S		4.83	13.1	2.50	7.27	0.12	0.05	0.02	0.025	0.06	14.7	13.6	0.55	347	0.55	0.01
FGL086 12+50S		1.08	11.9	2.48	7.49	0.12	0.05	0.03	0.024	0.05	14.0	13.3	0.64	349	0.42	0.02
FGL086 13+00S		1.39	11.7	2.67	8.61	0.13	0.05	0.02	0.024	0.07	12.4	14.9	0.68	393	0.43	0.02
FGL086 13+50S		1.26	15.9	1.96	7.19	0.11	0.03	0.04	0.020	0.06	11.4	9.3	0.42	210	0.51	0.02
FGL086 14+00S		1.40	9.6	1.89	6.86	0.10	0.03	0.02	0.017	0.06	8.3	9.5	0.39	387	0.51	0.02
FGL086 14+50S		1.89	10.8	2.75	8.11	0.12	0.06	0.02	0.024	0.08	9.6	16.0	0.70	403	0.56	0.01
FGL086 15+00S		1.77	15.6	2.64	7.58	0.12	0.06	0.08	0.028	0.06	15.5	15.5	0.67	494	0.46	0.01
FGL086 15+50S		1.48	10.8	2.46	8.17	0.12	0.04	0.05	0.026	0.06	9.7	14.3	0.60	258	0.47	0.01
FGL086 16+00S		1.18	9.8	1.86	7.46	0.11	0.03	0.02	0.018	0.06	9.7	9.9	0.36	352	0.40	0.02
FGL086 16+50S		1.46	12.2	2.44	7.53	0.11	0.06	0.02	0.023	0.07	11.5	12.8	0.50	232	0.51	0.01
FGL086 17+50S		1.43	13.5	2.79	8.00	0.10	0.05	0.02	0.024	0.06	9.9	16.5	0.44	269	0.87	0.01
FGL086 18+00S		1.11	11.5	2.21	6.60	0.10	0.06	0.01	0.019	0.05	8.4	14.0	0.41	176	0.71	0.01
FGL086 18+50S		1.18	17.4	2.36	5.55	0.09	0.13	0.03	0.024	0.07	8.5	13.1	0.49	229	0.62	0.01
FGL086 19+00S		1.96	12.8	2.54	8.72	0.09	0.07	0.02	0.024	0.06	8.8	15.3	0.46	412	0.70	0.01
FGL086 19+50S		1.33	13.4	2.10	5.44	0.10	0.05	0.02	0.022	0.07	10.5	11.7	0.47	213	0.42	0.01
FGL086 20+00S		2.36	11.8	2.58	7.23	0.09	0.03	0.01	0.024	0.07	10.5	11.0	0.41	333	0.71	0.01
FGL086 20+50S		1.44	15.0	2.45	6.85	0.10	0.06	0.01	0.022	0.06	8.6	14.0	0.52	250	0.58	0.01
FGL086 21+00S		0.97	7.2	2.96	9.32	0.11	0.04	0.01	0.026	0.08	21.8	13.5	0.96	573	0.23	0.01
FGL086 21+50S		1.06	11.5	3.77	12.20	0.12	0.05	0.02	0.031	0.10	10.1	19.0	1.06	547	0.52	0.01
FGL086 22+00S		0.66	7.0	3.06	11.40	0.14	0.04	0.02	0.022	0.07	17.8	15.7	1.03	537	0.26	0.02
FGL087 00+00		1.27	7.7	2.01	6.81	0.10	0.05	0.01	0.016	0.07	11.0	12.5	0.40	345	0.56	0.01
FGL087 00+50S		1.50	12.1	2.54	7.64	0.11	0.04	0.02	0.032	0.11	17.7	9.9	0.50	892	0.49	0.01
FGL087 01+00S		1.66	21.9	2.61	8.31	0.11	0.08	0.02	0.024	0.07	10.2	14.5	0.53	298	0.54	0.01
FGL087 01+50S		1.29	21.1	3.04	8.88	0.10	0.06	0.02	0.028	0.06	8.2	15.4	0.67	367	0.71	0.01
FGL087 02+00S		1.49	20.4	2.44	9.00	0.11	0.05	0.02	0.023	0.06	8.1	14.9	0.60	243	0.43	0.02
FGL087 02+50S		0.78	12.4	1.86	6.82	0.09	0.04	0.02	0.014	0.06	9.6	9.7	0.40	188	0.41	0.01
FGL087 03+00S		1.60	9.5	2.28	6.28	0.10	0.03	0.02	0.022	0.06	10.9	12.1	0.47	373	0.41	0.01
FGL087 03+50S		1.03	8.9	2.48	7.25	0.09	0.03	0.01	0.017	0.07	7.0	11.1	0.37	461	0.82	0.01
FGL087 04+00S		1.04	13.4	2.42	7.22	0.10	0.03	0.01	0.021	0.07	8.7	12.8	0.46	302	0.56	0.01
FGL087 04+50S		1.01	15.9	2.56	6.71	0.10	0.06	0.03	0.021	0.06	9.6	14.1	0.50	275	0.62	0.01
FGL087 05+00S		0.95	15.0	2.47	6.61	0.10	0.06	0.01	0.020	0.06	9.0	12.9	0.44	217	0.64	0.01
FGL087 05+50S		1.16	17.3	2.49	7.15	0.10	0.13	0.01	0.021	0.07	8.2	13.5	0.56	242	0.57	0.01
FGL087 06+50S		1.20	8.8	1.81	4.14	0.12	0.05	0.07	0.014	0.07	11.7	8.6	0.43	202	0.32	0.01
FGL087 07+00S		0.99	15.5	1.80	4.48	0.11	0.06	0.02	0.016	0.05	12.3	8.5	0.36	200	0.39	0.01

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL086 08+50S		1.13	10.4	740	5.4	6.1	<0.001	0.04	0.30	3.4	0.4	0.4	98.3	<0.01	<0.01	1.8
FGL086 09+00S		1.57	16.3	540	8.0	8.2	<0.001	0.03	0.43	4.5	0.2	0.5	35.7	0.01	0.01	3.1
FGL086 09+50S		1.97	13.5	240	11.9	9.9	<0.001	0.03	0.43	3.2	0.3	0.5	18.0	<0.01	0.03	2.1
FGL086 10+00S		1.24	8.1	430	229	11.6	<0.001	0.03	6.17	2.6	0.4	0.5	19.8	<0.01	0.01	1.6
FGL086 10+50S		0.66	8.2	1080	253	9.6	<0.001	0.07	3.30	1.6	0.4	0.4	30.4	<0.01	0.01	<0.2
FGL086 11+00S		0.71	8.2	690	7.4	10.0	<0.001	0.04	0.40	1.7	0.3	0.4	22.4	<0.01	0.01	0.2
FGL086 11+50S		1.53	14.6	640	7.5	9.9	<0.001	0.03	0.33	4.1	0.4	0.5	28.5	<0.01	0.01	2.2
FGL086 12+50S		1.29	14.4	880	5.4	7.9	<0.001	0.03	0.20	4.1	0.3	0.5	41.5	0.01	0.02	1.6
FGL086 13+00S		1.46	14.8	750	6.3	10.0	<0.001	0.02	0.22	4.3	0.3	0.5	50.3	0.01	0.01	2.1
FGL086 13+50S		0.76	11.2	520	5.4	10.2	<0.001	0.03	0.22	1.9	0.4	0.5	31.6	<0.01	0.03	<0.2
FGL086 14+00S		0.96	9.4	510	5.5	13.2	<0.001	0.01	0.19	2.1	0.3	0.4	30.3	<0.01	0.01	0.3
FGL086 14+50S		1.56	16.2	720	6.2	12.3	<0.001	<0.01	0.25	4.2	0.3	0.5	36.1	<0.01	0.01	2.1
FGL086 15+00S		1.31	18.3	840	6.7	9.0	<0.001	0.01	0.25	4.9	0.5	0.5	38.0	<0.01	0.01	1.7
FGL086 15+50S		1.71	15.2	480	6.3	7.7	<0.001	0.01	0.22	3.7	0.4	0.6	32.0	<0.01	0.01	1.6
FGL086 16+00S		0.68	8.9	650	5.4	7.7	<0.001	0.01	0.14	2.0	0.3	0.5	41.4	0.01	0.01	<0.2
FGL086 16+50S		1.70	14.7	500	7.3	9.6	<0.001	0.01	0.23	3.6	0.2	0.6	23.5	<0.01	0.01	2.4
FGL086 17+50S		2.25	16.5	340	10.0	11.6	<0.001	0.02	0.42	3.0	0.2	0.8	21.1	<0.01	0.02	1.5
FGL086 18+00S		1.98	16.1	260	7.4	10.1	<0.001	0.02	0.37	2.7	0.2	0.6	20.1	<0.01	0.02	2.1
FGL086 18+50S		1.25	19.4	410	6.5	9.3	0.001	<0.01	0.37	3.4	0.3	0.5	16.1	<0.01	0.02	3.4
FGL086 19+00S		1.46	13.1	360	8.4	11.8	<0.001	<0.01	0.40	3.1	0.3	0.7	35.9	<0.01	0.02	2.4
FGL086 19+50S		1.04	18.1	560	5.6	9.3	<0.001	<0.01	0.32	3.2	0.5	0.4	19.8	<0.01	0.02	1.6
FGL086 20+00S		0.87	9.9	470	6.8	13.1	<0.001	<0.01	0.53	3.5	0.3	0.5	23.6	<0.01	0.02	1.1
FGL086 20+50S		1.14	18.5	470	6.6	9.9	<0.001	<0.01	0.39	3.5	0.3	0.5	23.8	<0.01	0.03	2.1
FGL086 21+00S		0.42	11.7	1140	4.8	8.7	<0.001	<0.01	0.21	5.5	0.4	0.4	54.0	<0.01	0.01	2.9
FGL086 21+50S		1.18	17.3	960	6.4	15.0	<0.001	<0.01	0.33	5.7	0.4	0.6	75.7	0.01	0.02	1.7
FGL086 22+00S		0.64	14.2	1860	4.1	7.3	<0.001	<0.01	0.14	6.3	0.6	0.4	93.0	0.01	0.01	1.8
FGL087 00+00		0.99	9.0	310	10.4	10.2	<0.001	<0.01	0.27	2.6	0.3	0.5	16.1	<0.01	0.03	2.3
FGL087 00+50S		0.40	10.2	840	10.7	8.4	<0.001	<0.01	1.21	4.3	0.5	0.3	24.5	<0.01	0.03	5.8
FGL087 01+00S		1.21	21.2	630	7.4	7.4	<0.001	<0.01	0.47	4.4	0.3	0.5	29.7	0.01	0.03	2.8
FGL087 01+50S		1.28	19.6	550	7.6	9.7	<0.001	<0.01	0.32	4.5	0.3	0.6	25.5	<0.01	0.03	2.0
FGL087 02+00S		1.14	15.6	570	6.0	7.3	<0.001	<0.01	0.22	4.1	0.3	0.5	44.9	0.01	0.03	1.5
FGL087 02+50S		1.11	11.2	430	5.2	5.2	<0.001	<0.01	0.21	2.7	0.3	0.4	30.3	0.01	0.02	1.0
FGL087 03+00S		0.60	10.9	820	7.7	8.3	<0.001	<0.01	0.28	3.1	0.3	0.4	21.3	<0.01	0.01	0.6
FGL087 03+50S		1.25	12.7	570	13.0	13.5	<0.001	<0.01	0.31	2.4	0.2	0.6	12.1	<0.01	0.02	1.1
FGL087 04+00S		0.89	12.6	640	6.9	9.9	<0.001	<0.01	0.33	3.0	0.2	0.5	19.5	<0.01	0.02	1.1
FGL087 04+50S		1.10	17.4	440	6.5	8.7	<0.001	<0.01	0.32	3.4	0.4	0.5	19.4	<0.01	0.02	2.2
FGL087 05+00S		1.14	15.6	450	6.9	9.1	<0.001	<0.01	0.34	3.1	0.2	0.5	18.4	<0.01	0.02	2.2
FGL087 05+50S		0.79	18.8	310	6.6	8.2	<0.001	<0.01	0.33	3.8	0.2	0.5	28.5	<0.01	0.02	2.9
FGL087 06+50S		0.60	11.3	930	5.4	8.0	<0.001	<0.01	0.28	2.9	0.3	0.3	24.1	<0.01	0.02	2.6
FGL087 07+00S		0.91	14.0	520	6.2	7.3	<0.001	<0.01	0.26	3.4	0.5	0.4	19.2	<0.01	0.02	2.8

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL086 08+50S		0.059	0.07	0.49	49	0.10	5.01	49	0.7
FGL086 09+00S		0.070	0.12	0.63	58	0.14	5.96	54	1.0
FGL086 09+50S		0.067	0.11	0.44	60	0.18	3.19	40	0.8
FGL086 10+00S		0.048	0.16	0.49	43	0.14	4.06	86	0.6
FGL086 10+50S		0.033	0.20	0.75	39	0.11	4.58	72	<0.5
FGL086 11+00S		0.052	0.18	0.49	49	0.17	3.46	47	<0.5
FGL086 11+50S		0.076	0.13	0.65	62	0.15	5.07	58	0.7
FGL086 12+50S		0.091	0.09	0.65	60	0.16	5.06	60	0.9
FGL086 13+00S		0.109	0.11	0.53	67	0.18	4.48	63	0.8
FGL086 13+50S		0.066	0.08	0.58	52	0.15	3.79	44	<0.5
FGL086 14+00S		0.074	0.07	0.38	53	0.12	2.92	45	<0.5
FGL086 14+50S		0.097	0.10	0.44	68	0.17	3.80	65	1.4
FGL086 15+00S		0.073	0.10	0.90	62	0.18	8.28	59	1.0
FGL086 15+50S		0.089	0.09	0.46	63	0.21	3.48	51	0.7
FGL086 16+00S		0.048	0.07	0.49	52	0.15	5.10	41	<0.5
FGL086 16+50S		0.057	0.09	0.60	59	0.18	3.79	42	1.2
FGL086 17+50S		0.096	0.14	0.76	70	0.20	2.85	59	1.0
FGL086 18+00S		0.074	0.09	0.73	54	0.15	2.36	41	1.2
FGL086 18+50S		0.077	0.09	0.60	52	0.17	2.83	44	4.0
FGL086 19+00S		0.081	0.09	1.09	59	0.16	2.49	47	2.2
FGL086 19+50S		0.071	0.08	0.57	48	0.16	4.45	42	0.7
FGL086 20+00S		0.044	0.07	0.47	60	0.32	3.58	49	<0.5
FGL086 20+50S		0.080	0.08	0.43	56	0.14	3.51	46	1.3
FGL086 21+00S		0.062	0.06	0.58	66	0.09	6.12	70	0.9
FGL086 21+50S		0.134	0.08	0.41	93	0.17	3.96	72	1.1
FGL086 22+00S		0.146	0.05	0.67	80	0.10	7.40	73	1.0
FGL087 00+00		0.053	0.07	0.41	49	0.16	4.74	50	1.3
FGL087 00+50S		0.013	0.09	1.08	38	0.14	7.19	75	0.8
FGL087 01+00S		0.066	0.07	0.54	59	0.18	4.80	53	2.4
FGL087 01+50S		0.113	0.08	0.44	70	0.29	3.29	63	1.3
FGL087 02+00S		0.102	0.06	0.41	62	0.26	3.29	52	1.1
FGL087 02+50S		0.092	0.06	0.47	51	0.28	2.99	42	0.6
FGL087 03+00S		0.053	0.06	0.54	55	0.11	4.78	64	<0.5
FGL087 03+50S		0.090	0.09	0.30	66	0.17	1.85	53	0.7
FGL087 04+00S		0.079	0.07	0.35	59	0.16	2.81	51	<0.5
FGL087 04+50S		0.087	0.08	0.40	63	0.17	3.24	49	1.3
FGL087 05+00S		0.083	0.09	0.38	59	0.21	2.70	45	1.4
FGL087 05+50S		0.092	0.08	0.39	62	0.28	2.84	50	4.0
FGL087 06+50S		0.063	0.08	0.63	43	0.45	5.17	46	0.9
FGL087 07+00S		0.071	0.07	0.54	42	0.16	6.08	37	1.7

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
FGL087 07+50S		0.71	0.0019	0.08	1.34	5.3	<0.02	<10	120	0.36	0.10	0.29	0.08	18.10	5.9	20
FGL087 08+00S		0.93	0.0073	0.08	1.38	5.9	<0.02	<10	110	0.29	0.11	0.46	0.15	20.7	7.1	20
FGL087 10+00S		0.64	0.0004	1.10	1.54	7.1	<0.02	<10	140	0.30	0.09	0.36	0.14	15.70	6.2	15
FGL087 10+50S		1.03	0.0008	0.04	1.82	8.8	<0.02	<10	150	0.45	0.10	0.47	0.07	22.3	8.3	19
FGL087 11+00S		0.84	0.0022	0.10	1.53	11.2	<0.02	<10	130	0.41	0.11	0.31	0.08	17.55	5.3	18
FGL087 11+50S		0.71	0.0016	0.27	2.26	30.4	<0.02	<10	180	0.57	0.08	0.62	0.07	24.2	7.5	20
FGL087 12+00S		0.53	0.0016	0.05	1.55	6.3	<0.02	<10	100	0.34	0.08	0.29	0.06	13.70	4.5	14
FGL087 12+50S		0.88	0.0016	0.09	2.26	10.5	0.31	<10	140	0.55	0.10	0.53	0.07	20.2	8.6	22
FGL087 13+00S		0.66	0.0009	0.04	1.91	10.8	<0.02	<10	110	0.47	0.12	0.23	0.08	20.3	7.3	24
FGL087 13+50S		0.74	0.0010	0.04	1.90	8.5	<0.02	<10	140	0.43	0.11	0.46	0.09	21.5	9.5	21
FGL087 14+00S		0.76	0.0020	0.04	1.79	8.0	<0.02	<10	140	0.35	0.11	0.39	0.06	18.45	6.2	21
FGL087 14+50S		0.90	0.0011	0.08	1.95	11.4	<0.02	<10	180	0.61	0.11	0.48	0.06	25.8	7.9	22
FGL087 15+00S		0.65	0.0012	0.09	1.82	10.6	<0.02	<10	130	0.45	0.11	0.41	0.11	19.30	7.4	20
FGL087 15+50S		0.73	0.0013	0.04	1.81	28.4	<0.02	<10	170	0.40	0.11	0.35	0.07	21.2	8.9	25
FGL087 16+00S		0.84	0.0023	0.14	1.82	12.3	<0.02	<10	130	0.38	0.17	0.24	0.09	21.1	7.1	25
FGL087 16+50S		0.70	0.0018	0.04	1.92	10.5	<0.02	<10	150	0.36	0.10	0.30	0.07	22.0	7.7	22
FGL087 17+00S		0.77	0.0010	0.02	1.91	12.0	<0.02	<10	140	0.40	0.11	0.22	0.10	19.00	8.3	24
FGL087 17+50S		0.63	0.0010	0.02	1.55	9.4	<0.02	<10	160	0.31	0.11	0.23	0.06	18.30	7.4	22
FGL087 18+00S		0.68	0.0004	0.11	1.71	6.7	<0.02	<10	140	0.32	0.16	0.22	0.14	17.95	8.8	23
FGL087 18+50S		0.60	0.0006	0.04	2.46	8.0	<0.02	<10	140	0.43	0.10	0.35	0.14	19.75	11.7	17
FGL087 19+00S		0.74	0.0010	0.04	2.03	8.0	<0.02	<10	130	0.37	0.11	0.22	0.07	18.95	7.3	22
FGL087 19+50S		0.70	0.0048	0.06	2.16	9.9	<0.02	<10	120	0.38	0.11	0.17	0.08	22.8	8.3	24
FGL087 20+00S		0.79	0.0005	0.07	2.20	10.0	<0.02	<10	140	0.35	0.13	0.22	0.11	18.55	9.3	24
FGL087 20+50S		0.73	0.0009	0.04	2.57	10.0	<0.02	<10	170	0.39	0.09	0.21	0.08	21.3	10.8	24
FGL087 22+00S		0.92	0.0015	0.04	1.68	5.9	<0.02	<10	130	0.36	0.08	0.44	0.06	26.3	7.5	25
FGL087 22+50S		0.96	0.0008	0.02	1.94	5.7	<0.02	<10	100	0.39	0.06	0.61	0.04	22.5	9.2	20
FGL088 00+00		0.42	0.0017	0.05	2.25	10.6	<0.02	<10	140	0.58	0.13	0.33	0.09	22.8	9.2	28
FGL088 00+50N		0.35	0.0014	0.03	2.38	12.6	<0.02	<10	130	0.39	0.16	0.27	0.10	22.1	9.5	31
FGL088 01+00N		0.39	0.0014	0.03	1.95	8.8	<0.02	<10	100	0.29	0.18	0.15	0.08	17.60	6.1	30
FGL088 01+50N		0.36	0.0012	0.04	2.55	10.3	<0.02	<10	130	0.39	0.14	0.24	0.09	18.25	8.7	34
FGL088 02+00N		0.47	0.0009	0.04	2.24	10.4	<0.02	<10	140	0.43	0.13	0.18	0.06	21.2	8.8	29
FGL088 02+50N		0.46	0.0004	0.06	1.73	9.6	<0.02	<10	110	0.35	0.15	0.19	0.06	16.95	8.6	24
FGL088 03+00N		0.42	0.0010	0.05	1.93	9.1	<0.02	<10	130	0.36	0.15	0.17	0.10	17.60	8.0	27
FGL088 03+50N		0.39	0.0016	0.04	1.99	12.7	<0.02	<10	120	0.40	0.14	0.19	0.16	21.2	9.9	28
FGL088 04+00N		0.41	0.0110	0.05	1.52	10.7	<0.02	<10	110	0.24	0.15	0.27	0.07	17.50	7.4	23
FGL088 04+50N		0.32	0.0009	0.07	1.14	4.7	<0.02	<10	110	0.24	0.08	0.14	0.04	12.55	4.1	12
FGL088 05+00N		0.41	0.0005	0.13	1.45	10.8	<0.02	<10	160	0.41	0.12	0.26	0.10	16.30	8.1	19
FGL088 05+50N		0.39	0.0004	0.06	1.61	8.9	<0.02	<10	140	0.46	0.13	0.24	0.11	22.1	8.8	26
FGL088 06+00N		0.42	0.0004	0.06	1.49	6.3	<0.02	<10	90	0.28	0.09	0.19	0.07	15.45	7.8	17
FGL088 06+50N		0.38	0.0029	0.06	1.67	7.3	<0.02	<10	110	0.34	0.10	0.20	0.07	16.90	9.1	20

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
FGL087 07+50S		1.92	15.3	1.73	4.72	0.10	0.03	0.04	0.017	0.06	9.2	8.0	0.32	193	0.38	0.02	
FGL087 08+00S		3.10	9.8	2.03	5.55	0.12	0.05	0.03	0.020	0.06	11.7	11.6	0.52	302	0.36	0.01	
FGL087 10+00S		5.58	15.3	2.02	7.43	0.10	0.03	0.06	0.017	0.05	10.3	9.1	0.43	300	0.54	0.02	
FGL087 10+50S		2.39	10.7	2.44	7.98	0.10	0.04	0.03	0.020	0.07	13.7	14.5	0.59	436	0.39	0.01	
FGL087 11+00S		6.46	11.9	1.91	6.69	0.10	0.03	0.04	0.018	0.06	10.9	10.1	0.39	225	0.45	0.02	
FGL087 11+50S		14.75	12.9	2.09	8.08	0.11	0.05	0.19	0.027	0.08	15.5	12.9	0.50	403	0.29	0.02	
FGL087 12+00S		2.22	9.4	1.63	6.97	0.10	0.03	0.02	0.016	0.06	8.3	7.6	0.35	211	0.40	0.01	
FGL087 12+50S		1.09	11.2	2.56	8.45	0.10	0.06	0.01	0.022	0.09	11.0	15.9	0.62	419	0.45	0.01	
FGL087 13+00S		1.01	12.4	2.64	7.83	0.10	0.04	0.01	0.025	0.07	12.1	15.6	0.53	276	0.74	0.01	
FGL087 13+50S		0.99	14.5	2.61	8.59	0.10	0.04	0.02	0.023	0.07	14.2	16.6	0.68	464	0.52	0.01	
FGL087 14+00S		0.92	10.9	2.15	8.17	0.10	0.04	0.02	0.018	0.04	10.8	13.1	0.51	255	0.48	0.01	
FGL087 14+50S		1.15	16.0	2.20	7.44	0.11	0.03	0.03	0.021	0.06	16.7	13.4	0.51	342	0.46	0.01	
FGL087 15+00S		1.17	17.0	2.33	8.23	0.11	0.04	0.03	0.021	0.07	10.7	11.4	0.50	325	0.53	0.01	
FGL087 15+50S		1.43	14.6	2.46	6.45	0.11	0.05	0.05	0.022	0.08	10.5	13.9	0.59	341	0.48	0.01	
FGL087 16+00S		1.50	15.3	2.46	7.77	0.05	0.03	0.04	0.026	0.06	11.3	14.8	0.51	221	0.72	0.01	
FGL087 16+50S		1.27	13.3	2.23	6.21	<0.05	0.03	0.02	0.021	0.06	9.5	10.8	0.54	273	0.41	0.01	
FGL087 17+00S		2.07	11.3	2.51	7.42	<0.05	0.02	0.11	0.023	0.09	9.3	15.9	0.57	292	0.48	0.01	
FGL087 17+50S		1.24	14.1	2.42	6.09	<0.05	<0.02	0.01	0.022	0.06	8.8	11.8	0.50	273	0.53	0.01	
FGL087 18+00S		2.90	12.7	2.75	9.03	<0.05	0.02	0.02	0.022	0.07	9.4	14.3	0.42	560	0.73	0.01	
FGL087 18+50S		2.77	18.7	2.95	10.30	<0.05	0.02	0.02	0.028	0.07	9.2	15.0	0.67	1000	0.54	0.02	
FGL087 19+00S		1.10	11.1	2.55	7.34	<0.05	0.03	0.02	0.019	0.06	9.3	13.0	0.51	311	0.53	0.01	
FGL087 19+50S		1.34	12.1	2.40	7.26	<0.05	0.02	0.02	0.020	0.07	11.1	13.4	0.52	242	0.53	0.01	
FGL087 20+00S		2.12	16.0	2.83	8.96	<0.05	0.03	0.12	0.027	0.08	9.1	17.7	0.60	351	0.62	0.01	
FGL087 20+50S		1.63	18.1	2.94	9.36	<0.05	0.02	0.10	0.028	0.07	9.1	16.8	0.75	398	0.49	0.01	
FGL087 22+00S		0.75	11.0	2.30	7.02	0.05	0.02	0.02	0.020	0.06	15.2	13.5	0.59	216	0.28	0.01	
FGL087 22+50S		0.80	8.4	2.68	8.66	0.06	0.03	0.02	0.021	0.05	12.6	13.0	0.73	427	0.26	0.01	
FGL088 00+00		1.20	17.5	2.94	8.80	<0.05	0.02	0.02	0.024	0.09	11.5	16.1	0.62	348	0.70	0.01	
FGL088 00+50N		1.38	16.5	3.73	9.52	<0.05	0.03	0.01	0.032	0.10	10.7	20.6	0.62	304	1.00	0.01	
FGL088 01+00N		1.12	13.3	2.71	8.32	<0.05	0.03	0.01	0.023	0.05	9.1	12.1	0.36	263	0.96	0.01	
FGL088 01+50N		1.26	13.0	2.90	8.05	<0.05	0.03	0.03	0.025	0.06	9.4	16.8	0.56	324	1.03	0.01	
FGL088 02+00N		1.57	17.5	2.55	7.20	<0.05	0.04	0.04	0.026	0.07	10.6	14.6	0.51	242	0.70	0.01	
FGL088 02+50N		1.39	18.1	2.88	8.72	<0.05	0.03	0.01	0.020	0.06	8.6	13.7	0.46	340	0.96	0.01	
FGL088 03+00N		1.37	20.2	2.49	7.26	<0.05	0.03	0.02	0.023	0.06	8.5	13.6	0.41	281	0.69	0.01	
FGL088 03+50N		1.40	16.7	2.54	7.16	<0.05	0.04	0.02	0.025	0.07	10.9	15.7	0.51	340	0.67	0.01	
FGL088 04+00N		1.45	11.8	2.60	7.34	<0.05	0.02	0.02	0.020	0.06	9.2	14.8	0.57	329	0.69	0.01	
FGL088 04+50N		1.05	11.0	1.30	4.62	<0.05	<0.02	0.02	0.010	0.05	6.8	6.7	0.21	184	0.36	0.02	
FGL088 05+00N		1.25	19.4	2.25	7.37	<0.05	0.02	0.02	0.019	0.07	9.9	9.4	0.36	478	0.76	0.02	
FGL088 05+50N		0.99	20.3	2.44	7.71	<0.05	0.02	0.02	0.021	0.07	13.4	11.1	0.46	398	1.04	0.01	
FGL088 06+00N		0.86	8.6	2.11	6.65	<0.05	0.02	0.02	0.017	0.06	8.9	13.2	0.40	401	0.53	0.01	
FGL088 06+50N		0.96	10.0	2.33	7.47	<0.05	0.02	0.02	0.019	0.06	9.8	14.8	0.46	460	0.62	0.01	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
FGL087 07+50S		0.68	11.8	580	7.8	9.0	<0.001	<0.01	0.27	3.0	0.4	0.3	22.9	<0.01	0.01	0.8	
FGL087 08+00S		0.92	11.0	1050	12.0	10.3	<0.001	<0.01	0.35	3.1	0.4	0.4	25.6	<0.01	0.01	2.3	
FGL087 10+00S		0.57	8.7	650	44.4	11.0	<0.001	<0.01	0.98	2.0	0.4	0.4	25.8	<0.01	0.01	0.3	
FGL087 10+50S		0.88	10.7	870	5.6	11.9	<0.001	<0.01	0.19	3.6	0.2	0.5	28.3	<0.01	0.01	1.8	
FGL087 11+00S		0.71	10.0	530	6.0	11.9	<0.001	<0.01	0.25	2.3	0.3	0.4	22.2	<0.01	0.02	0.4	
FGL087 11+50S		0.55	13.1	1270	21.0	10.8	<0.001	0.01	0.67	4.0	0.6	0.4	47.6	<0.01	0.01	1.5	
FGL087 12+00S		0.71	7.5	420	4.2	9.3	<0.001	<0.01	0.16	2.1	0.2	0.4	27.5	0.01	0.01	0.5	
FGL087 12+50S		1.12	14.0	560	5.7	12.2	<0.001	<0.01	0.21	4.2	0.3	0.5	41.7	0.01	0.02	2.7	
FGL087 13+00S		1.23	12.8	460	5.8	12.6	<0.001	<0.01	0.31	3.4	0.3	0.5	18.4	<0.01	0.02	1.9	
FGL087 13+50S		0.95	12.6	830	5.6	14.0	<0.001	<0.01	0.18	3.7	0.4	0.5	30.8	<0.01	0.01	1.8	
FGL087 14+00S		1.13	11.1	410	6.1	6.3	<0.001	<0.01	0.19	3.6	0.4	0.5	32.5	0.01	0.01	1.8	
FGL087 14+50S		0.72	14.0	670	6.4	9.7	<0.001	<0.01	0.22	3.3	0.4	0.4	36.0	<0.01	0.02	0.7	
FGL087 15+00S		0.87	13.1	630	6.5	12.7	<0.001	<0.01	0.27	2.9	0.4	0.5	34.0	0.01	0.02	0.6	
FGL087 15+50S		1.02	17.0	750	5.8	13.2	<0.001	<0.01	0.33	3.7	0.3	0.5	23.3	<0.01	0.01	2.2	
FGL087 16+00S		1.58	15.1	500	8.2	11.8	<0.001	0.01	0.41	3.7	0.4	0.6	20.4	<0.01	0.04	2.2	
FGL087 16+50S		1.08	15.9	480	5.9	7.8	<0.001	0.01	0.33	3.4	0.4	0.4	26.9	0.01	0.02	2.2	
FGL087 17+00S		1.06	15.3	400	7.2	14.0	<0.001	0.01	0.44	3.8	0.3	0.5	20.0	<0.01	0.02	2.4	
FGL087 17+50S		1.06	14.9	390	5.5	7.2	<0.001	0.01	0.32	3.0	0.2	0.4	19.2	<0.01	0.02	1.6	
FGL087 18+00S		1.38	11.4	550	7.7	22.3	<0.001	0.01	0.34	2.9	0.3	0.6	24.1	<0.01	0.02	1.3	
FGL087 18+50S		1.15	11.2	770	6.3	11.9	<0.001	0.01	0.26	3.9	0.2	0.5	30.8	<0.01	0.01	1.3	
FGL087 19+00S		1.18	13.3	480	5.8	9.9	<0.001	0.01	0.27	3.0	0.2	0.4	22.4	<0.01	0.02	1.5	
FGL087 19+50S		1.18	16.9	380	6.0	10.8	<0.001	0.01	0.35	3.5	0.3	0.5	18.9	<0.01	0.02	2.0	
FGL087 20+00S		1.36	15.7	520	6.9	13.1	<0.001	0.01	0.39	3.6	0.3	0.5	24.4	<0.01	0.02	2.0	
FGL087 20+50S		1.09	18.3	430	5.8	9.5	<0.001	0.01	0.35	3.9	0.3	0.5	29.1	<0.01	0.02	1.8	
FGL087 22+00S		0.86	12.4	1080	5.0	8.6	<0.001	0.01	0.18	3.7	0.3	0.4	26.8	<0.01	0.01	1.4	
FGL087 22+50S		0.80	10.1	1400	4.9	7.0	<0.001	0.01	0.19	3.8	0.3	0.4	36.9	<0.01	0.01	2.3	
FGL088 00+00		1.37	16.0	770	7.0	12.3	<0.001	0.01	0.29	3.9	0.4	0.5	27.7	<0.01	0.02	1.7	
FGL088 00+50N		1.92	17.0	820	8.1	12.5	<0.001	0.01	0.41	3.9	0.4	0.6	23.1	0.01	0.03	2.3	
FGL088 01+00N		1.88	12.1	370	9.2	11.6	<0.001	0.01	0.38	3.1	0.4	0.7	16.4	0.01	0.03	2.2	
FGL088 01+50N		1.75	15.7	440	7.3	9.3	<0.001	0.01	0.33	4.1	0.4	0.5	26.0	0.01	0.02	2.4	
FGL088 02+00N		1.44	17.8	360	7.0	10.1	<0.001	0.01	0.34	4.0	0.3	0.5	18.7	<0.01	0.03	2.7	
FGL088 02+50N		1.67	13.6	350	8.2	10.9	<0.001	0.01	0.32	3.0	0.3	0.5	20.0	<0.01	0.02	1.8	
FGL088 03+00N		1.55	15.2	360	7.1	11.2	<0.001	0.01	0.33	3.2	0.3	0.5	19.9	<0.01	0.02	2.1	
FGL088 03+50N		1.48	18.2	520	6.8	14.1	<0.001	0.01	0.35	4.0	0.3	0.5	18.1	<0.01	0.03	2.5	
FGL088 04+00N		1.21	13.3	640	6.2	11.3	<0.001	0.01	0.26	3.2	0.2	0.5	19.9	<0.01	0.02	1.8	
FGL088 04+50N		0.46	6.3	380	3.4	10.1	<0.001	0.02	0.13	1.2	0.2	0.3	14.4	<0.01	0.01	<0.2	
FGL088 05+00N		1.05	11.5	360	6.1	14.6	<0.001	0.01	0.22	2.8	0.3	0.4	25.0	<0.01	0.02	0.9	
FGL088 05+50N		1.18	16.3	420	5.7	16.1	<0.001	0.02	0.26	3.1	0.3	0.6	23.0	<0.01	0.02	1.0	
FGL088 06+00N		1.09	10.5	460	4.7	12.3	<0.001	0.01	0.20	2.4	0.2	0.4	19.2	<0.01	0.02	1.3	
FGL088 06+50N		1.26	12.4	480	5.3	13.2	<0.001	0.01	0.24	2.8	0.2	0.4	21.1	<0.01	0.02	1.5	

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method Analyte Units LOR	ME-MS41 Tl % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
FGL087 07+50S		0.060	0.08	0.64	40	0.12	5.67	43	0.5
FGL087 08+00S		0.086	0.11	0.60	49	0.20	5.07	69	1.0
FGL087 10+00S		0.070	0.10	0.53	56	0.13	3.66	62	<0.5
FGL087 10+50S		0.100	0.09	0.67	61	0.11	4.59	63	0.6
FGL087 11+00S		0.061	0.08	0.56	50	0.11	3.65	47	<0.5
FGL087 11+50S		0.036	0.10	1.01	49	0.11	4.92	70	0.6
FGL087 12+00S		0.048	0.06	0.44	41	0.10	2.19	40	<0.5
FGL087 12+50S		0.090	0.09	0.54	60	0.11	3.61	64	1.3
FGL087 13+00S		0.102	0.09	0.56	67	0.14	3.66	52	0.9
FGL087 13+50S		0.104	0.11	0.72	66	0.12	4.02	68	0.7
FGL087 14+00S		0.078	0.09	0.50	59	0.13	3.96	49	0.8
FGL087 14+50S		0.061	0.09	0.73	54	0.44	7.16	52	<0.5
FGL087 15+00S		0.087	0.09	0.52	59	0.16	3.88	58	0.5
FGL087 15+50S		0.086	0.14	0.49	57	0.16	4.20	57	1.0
FGL087 16+00S		0.084	0.12	0.53	59	0.18	4.47	51	1.0
FGL087 16+50S		0.079	0.08	0.41	52	0.15	3.90	48	1.0
FGL087 17+00S		0.061	0.08	0.41	56	0.15	3.26	52	0.9
FGL087 17+50S		0.065	0.06	0.37	54	0.15	3.00	44	0.6
FGL087 18+00S		0.102	0.09	0.44	69	0.14	3.25	71	0.7
FGL087 18+50S		0.103	0.06	0.36	71	0.10	3.62	67	0.6
FGL087 19+00S		0.106	0.06	0.36	63	0.13	3.30	49	1.0
FGL087 19+50S		0.101	0.08	0.43	58	0.14	3.34	47	0.9
FGL087 20+00S		0.107	0.07	0.41	67	0.16	3.08	59	1.0
FGL087 20+50S		0.104	0.07	0.44	67	0.11	3.29	65	0.9
FGL087 22+00S		0.116	0.07	0.63	60	0.12	5.78	52	0.6
FGL087 22+50S		0.129	0.05	0.51	66	0.10	4.81	69	0.9
FGL088 00+00		0.122	0.09	0.58	72	0.19	4.63	58	0.7
FGL088 00+50N		0.134	0.10	0.49	81	0.22	3.71	61	1.3
FGL088 01+00N		0.107	0.11	0.46	74	0.20	2.46	43	1.1
FGL088 01+50N		0.108	0.08	0.54	70	0.22	3.49	53	1.2
FGL088 02+00N		0.092	0.09	0.50	61	0.17	3.70	48	1.6
FGL088 02+50N		0.118	0.09	0.42	78	0.20	2.91	50	1.2
FGL088 03+00N		0.090	0.08	0.46	64	0.15	2.82	56	1.3
FGL088 03+50N		0.085	0.09	0.49	59	0.17	3.75	58	1.4
FGL088 04+00N		0.099	0.08	0.44	66	0.14	3.36	52	0.8
FGL088 04+50N		0.046	0.05	0.38	33	0.09	2.42	29	<0.5
FGL088 05+00N		0.082	0.07	0.44	67	0.17	3.24	47	0.6
FGL088 05+50N		0.092	0.08	0.60	67	0.17	3.98	55	0.6
FGL088 06+00N		0.085	0.07	0.38	55	0.13	2.52	43	0.7
FGL088 06+50N		0.092	0.08	0.42	59	0.16	2.90	49	0.8

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
FGL088 07+00N		0.26	0.0009	0.05	0.93	3.5	<0.02	<10	50	0.20	0.07	0.12	0.03	9.99	3.3	10
FGL088 07+50N		0.38	0.0023	0.08	1.51	8.3	<0.02	<10	100	0.40	0.15	0.16	0.09	19.00	6.3	22
FGL088 08+00N		0.37	0.0007	0.11	1.02	4.6	0.19	<10	60	0.21	0.12	0.13	0.06	10.65	3.9	15
FGL088 08+50N		0.36	0.0006	0.03	2.05	9.3	<0.02	<10	120	0.44	0.13	0.24	0.08	27.5	9.7	22
FGL088 09+00N		0.62	0.0011	0.03	1.78	7.4	<0.02	<10	170	0.41	0.13	0.34	0.07	19.85	6.5	21
FGL088 09+50N		0.43	0.0003	0.05	1.02	6.0	<0.02	<10	110	0.44	0.13	0.26	0.11	25.3	4.6	12
FGL088 10+00N		0.51	0.0012	0.04	1.26	5.8	<0.02	<10	110	0.26	0.15	0.19	0.09	19.20	5.2	22
FGL088 10+50N		0.48	0.0017	0.02	2.05	8.9	<0.02	<10	130	0.35	0.15	0.13	0.13	14.55	6.9	26
FGL088 11+00N		0.53	0.0010	0.02	1.44	7.7	<0.02	<10	120	0.49	0.17	0.18	0.13	20.2	6.3	23
FGL088 11+50N		0.58	0.0013	0.06	1.61	7.3	<0.02	<10	180	0.67	0.18	0.30	0.12	29.4	7.6	20
FGL088 12+00N		0.56	0.0005	0.22	0.84	3.8	<0.02	<10	120	0.42	0.08	0.14	0.10	17.70	4.6	8
FGL088 12+50N		0.72	0.0009	0.05	1.36	6.5	<0.02	<10	140	0.41	0.10	0.39	0.08	18.85	6.8	17
FGL088 13+00N		0.52	0.0012	0.11	1.75	7.4	<0.02	<10	190	0.62	0.07	0.64	0.11	19.30	6.4	14
FGL088 14+00N		0.46	0.0003	0.06	0.77	2.6	<0.02	<10	80	0.26	0.06	0.20	0.05	9.67	4.0	9
FGL088 14+50N		0.61	0.0060	0.05	2.02	9.1	<0.02	<10	140	0.47	0.09	0.69	0.06	18.10	9.1	16
FGL088 15+00N		0.62	0.0006	0.06	1.55	13.3	<0.02	<10	200	0.81	0.14	0.73	0.10	53.4	11.5	15
FGL088 15+50N		0.63	0.0017	0.03	1.04	4.1	<0.02	<10	120	0.23	0.09	0.29	0.06	15.85	6.8	16
FGL088 16+00N		0.67	0.0009	0.08	1.33	6.1	<0.02	<10	200	0.53	0.11	0.56	0.11	30.8	6.0	23
FGL088 17+00N		0.45	0.0004	0.04	1.59	9.8	<0.02	<10	180	0.43	0.12	0.49	0.09	23.9	8.5	24
FGL088 17+50N		0.55	0.0012	0.08	1.28	7.6	<0.02	<10	180	0.35	0.09	0.34	0.06	17.05	6.6	19
FGL088 18+00N		0.44	<0.0001	0.01	1.82	12.9	<0.02	<10	180	0.44	0.07	0.51	0.04	18.75	10.0	21
FGL088 18+50N		0.39	0.0013	0.11	2.86	9.8	<0.02	<10	310	1.24	0.09	1.02	0.06	39.2	7.5	31
FGL088 19+00N		0.48	0.0007	0.05	3.04	17.5	<0.02	<10	180	0.48	0.11	0.82	0.09	15.40	8.9	19
FGL088 19+50N		0.45	0.0028	0.05	1.53	7.8	<0.02	<10	180	0.52	0.24	0.20	0.08	26.2	6.4	23
FGL088 20+00N		0.42	0.0005	0.04	1.68	7.9	<0.02	<10	160	0.32	0.14	0.20	0.05	17.50	6.8	26
FGL088 20+50N		0.48	0.0004	0.03	0.87	6.6	<0.02	<10	80	0.20	0.10	0.13	0.08	14.55	5.4	12
FGL088 21+00N		0.51	0.0003	0.05	2.58	19.6	<0.02	<10	300	0.93	0.14	0.64	0.08	23.5	8.1	21
FGL088 21+50N		0.53	0.0004	0.03	1.54	13.8	<0.02	<10	220	0.76	0.10	0.36	0.07	33.8	7.6	16

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
FGL088 07+00N		0.56	8.3	1.27	4.10	<0.05	<0.02	0.01	0.010	0.04	5.4	5.7	0.16	134	0.37	0.02
FGL088 07+50N		1.22	15.2	2.23	7.43	<0.05	0.02	0.02	0.018	0.06	10.9	11.0	0.41	262	0.81	0.01
FGL088 08+00N		0.78	8.5	1.63	5.06	<0.05	<0.02	0.01	0.013	0.05	5.8	8.4	0.27	136	0.52	0.01
FGL088 08+50N		6.84	10.5	3.15	10.40	<0.05	0.02	0.01	0.027	0.10	15.8	17.5	0.71	383	0.67	0.01
FGL088 09+00N		7.89	13.1	2.19	6.67	<0.05	<0.02	0.01	0.020	0.07	11.6	12.6	0.54	291	0.53	0.04
FGL088 09+50N		2.82	8.7	1.73	4.27	<0.05	<0.02	0.01	0.021	0.08	15.2	6.1	0.17	306	0.61	0.01
FGL088 10+00N		2.16	8.2	1.93	6.26	<0.05	0.02	0.01	0.016	0.06	11.6	11.5	0.36	203	0.61	0.01
FGL088 10+50N		3.33	12.9	2.18	6.14	<0.05	0.03	0.01	0.023	0.08	7.4	14.9	0.39	335	0.59	0.01
FGL088 11+00N		5.23	10.7	1.94	5.16	<0.05	0.02	0.02	0.021	0.07	10.0	12.3	0.38	421	0.55	0.01
FGL088 11+50N		17.85	12.8	2.25	6.80	0.05	<0.02	0.02	0.027	0.09	21.1	14.7	0.42	445	0.53	0.01
FGL088 12+00N		13.80	13.0	1.13	4.31	0.05	<0.02	0.06	0.015	0.05	13.7	5.3	0.13	381	0.31	0.02
FGL088 12+50N		5.92	10.0	2.05	5.83	<0.05	<0.02	0.02	0.021	0.06	11.1	11.7	0.46	378	0.37	0.01
FGL088 13+00N		3.82	13.1	1.97	7.07	<0.05	<0.02	0.02	0.021	0.06	10.7	12.1	0.44	508	0.27	0.02
FGL088 14+00N		1.32	7.7	1.01	3.83	<0.05	<0.02	0.02	0.010	0.03	5.4	4.3	0.16	231	0.27	0.02
FGL088 14+50N		1.13	9.5	2.40	9.51	<0.05	<0.02	0.02	0.023	0.06	9.6	15.1	0.63	466	0.40	0.01
FGL088 15+00N		5.70	9.6	3.54	6.95	0.08	0.02	0.02	0.056	0.09	25.5	11.3	0.40	1170	0.44	0.01
FGL088 15+50N		1.03	9.8	1.54	4.16	<0.05	<0.02	0.01	0.013	0.05	7.9	7.3	0.30	433	0.36	0.02
FGL088 16+00N		1.44	17.2	1.90	5.76	0.05	0.03	0.04	0.024	0.04	16.3	10.1	0.38	217	0.42	0.01
FGL088 17+00N		0.93	9.6	2.50	6.62	<0.05	0.02	0.02	0.024	0.09	11.4	12.6	0.59	579	0.94	0.01
FGL088 17+50N		0.86	9.0	1.97	5.21	<0.05	0.04	0.04	0.019	0.07	10.3	10.3	0.42	337	0.43	0.01
FGL088 18+00N		1.96	7.0	2.97	8.14	<0.05	0.04	0.02	0.026	0.07	7.8	19.6	0.75	611	1.06	0.01
FGL088 18+50N		1.62	22.3	2.31	9.70	0.08	0.07	0.04	0.028	0.07	30.4	14.5	0.51	304	0.39	0.02
FGL088 19+00N		3.17	17.0	2.39	10.35	<0.05	0.04	0.01	0.024	0.12	6.9	15.3	0.49	500	0.56	0.01
FGL088 19+50N		1.18	13.0	2.30	6.71	<0.05	0.04	0.01	0.020	0.07	17.0	10.7	0.37	242	0.71	0.01
FGL088 20+00N		0.88	9.3	2.40	6.73	<0.05	0.05	0.01	0.020	0.07	9.3	13.3	0.44	264	0.64	0.01
FGL088 20+50N		1.15	5.4	1.55	6.30	<0.05	0.02	0.01	0.011	0.06	8.8	6.5	0.29	569	0.57	0.01
FGL088 21+00N		2.51	11.7	3.27	11.20	<0.05	0.04	0.01	0.025	0.10	13.2	21.8	0.49	301	0.73	0.01
FGL088 21+50N		0.92	10.2	2.23	6.37	<0.05	<0.02	0.01	0.023	0.08	16.6	13.1	0.43	527	0.38	0.01

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To: TRIUMPH GOLD CORP.
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Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
FGL088 07+00N		0.73	4.9	440	3.0	7.9	<0.001	0.01	0.13	1.4	0.2	0.2	12.3	<0.01	0.01	0.7
FGL088 07+50N		1.35	11.6	430	7.5	18.3	<0.001	0.01	0.26	2.9	0.2	0.5	16.2	<0.01	0.02	1.5
FGL088 08+00N		0.88	7.6	330	3.9	9.8	<0.001	0.01	0.19	1.7	0.2	0.3	11.3	<0.01	0.02	0.7
FGL088 08+50N		1.12	11.5	460	6.5	20.6	<0.001	0.01	0.23	5.0	0.3	0.6	25.0	<0.01	0.02	2.3
FGL088 09+00N		0.87	11.7	440	7.1	10.7	<0.001	0.01	0.21	3.0	0.3	0.4	38.3	<0.01	0.01	1.2
FGL088 09+50N		0.52	6.7	520	24.7	13.0	<0.001	0.01	0.34	2.1	0.3	0.3	21.4	<0.01	0.01	1.1
FGL088 10+00N		1.28	9.8	170	8.6	11.6	<0.001	<0.01	0.19	2.9	0.3	0.5	19.2	<0.01	0.01	1.9
FGL088 10+50N		1.44	14.5	170	15.6	10.5	<0.001	0.01	0.24	2.8	0.2	0.5	17.2	<0.01	0.02	2.4
FGL088 11+00N		1.22	12.5	180	15.4	11.3	<0.001	0.01	0.24	2.7	0.2	0.4	20.4	<0.01	0.02	2.3
FGL088 11+50N		0.95	10.7	500	12.2	19.9	<0.001	0.01	0.31	4.9	0.4	0.5	26.7	<0.01	0.01	3.0
FGL088 12+00N		0.33	4.5	440	10.8	9.3	<0.001	0.01	0.25	1.7	0.5	0.3	16.3	<0.01	<0.01	<0.2
FGL088 12+50N		0.78	9.0	800	7.2	8.9	<0.001	0.01	0.30	3.2	0.3	0.4	25.8	<0.01	0.01	0.9
FGL088 13+00N		0.70	7.9	980	12.9	7.7	<0.001	0.01	0.21	3.8	0.4	0.3	47.9	0.01	<0.01	1.0
FGL088 14+00N		0.31	4.4	370	3.4	6.3	<0.001	0.02	0.10	0.9	0.2	0.2	17.4	<0.01	<0.01	<0.2
FGL088 14+50N		0.89	9.3	1010	7.5	7.6	<0.001	0.01	0.16	4.2	0.2	0.4	54.7	0.01	0.01	1.0
FGL088 15+00N		0.50	9.7	1760	12.3	12.0	<0.001	0.01	1.38	10.2	0.5	0.6	33.4	<0.01	<0.01	2.3
FGL088 15+50N		0.87	9.1	510	7.8	8.3	<0.001	0.01	0.20	2.5	0.2	0.3	21.3	<0.01	0.01	1.1
FGL088 16+00N		0.69	11.1	1020	9.1	6.2	<0.001	0.02	0.34	5.1	0.5	0.4	42.7	<0.01	0.01	1.5
FGL088 17+00N		0.83	13.4	530	6.0	6.7	<0.001	0.01	0.75	3.6	0.3	0.4	31.7	<0.01	0.01	1.6
FGL088 17+50N		0.92	10.8	420	5.0	8.0	<0.001	0.01	0.33	3.5	0.3	0.4	21.3	<0.01	0.01	1.9
FGL088 18+00N		0.40	12.4	910	6.3	7.3	<0.001	0.01	0.16	4.1	0.2	0.5	25.2	<0.01	0.01	2.2
FGL088 18+50N		1.35	13.4	530	5.9	4.9	<0.001	0.02	0.22	8.7	0.6	0.5	67.5	0.01	0.01	1.8
FGL088 19+00N		1.24	12.8	600	6.8	9.0	<0.001	0.01	0.25	4.0	0.2	0.5	105.5	0.01	0.01	1.9
FGL088 19+50N		1.50	12.0	290	7.3	10.1	<0.001	0.01	0.30	3.5	0.5	0.5	20.1	<0.01	0.02	2.1
FGL088 20+00N		1.41	12.1	290	6.8	8.0	<0.001	0.01	0.25	3.4	0.3	0.6	17.6	<0.01	0.01	2.1
FGL088 20+50N		1.09	5.5	280	5.7	12.7	<0.001	0.01	0.16	1.9	0.2	0.4	12.5	<0.01	0.01	2.2
FGL088 21+00N		1.29	12.9	500	11.6	9.6	<0.001	0.01	0.38	4.9	0.4	0.6	50.9	0.01	0.02	2.4
FGL088 21+50N		0.74	8.7	620	9.9	7.9	<0.001	<0.01	0.15	3.0	0.3	0.4	19.1	<0.01	<0.01	2.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Ti	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
FGL088 07+00N		0.056	0.04	0.28	36	0.10	1.68	22	0.6
FGL088 07+50N		0.088	0.09	0.57	59	0.17	3.04	47	0.7
FGL088 08+00N		0.070	0.06	0.33	45	0.11	1.82	33	<0.5
FGL088 08+50N		0.101	0.11	0.57	79	0.12	4.92	71	0.7
FGL088 09+00N		0.057	0.08	0.67	52	0.09	4.39	51	<0.5
FGL088 09+50N		0.015	0.09	0.76	34	0.10	5.98	89	<0.5
FGL088 10+00N		0.079	0.08	0.47	53	0.16	4.58	40	0.7
FGL088 10+50N		0.062	0.08	0.40	49	0.17	2.30	56	1.1
FGL088 11+00N		0.058	0.09	0.62	45	0.13	3.88	48	0.7
FGL088 11+50N		0.052	0.37	1.19	53	0.11	10.95	65	<0.5
FGL088 12+00N		0.025	0.22	0.92	28	0.08	10.40	32	<0.5
FGL088 12+50N		0.065	0.10	0.65	51	0.13	6.79	59	<0.5
FGL088 13+00N		0.058	0.05	0.72	48	0.09	6.65	63	<0.5
FGL088 14+00N		0.033	0.05	0.39	28	0.06	3.79	29	<0.5
FGL088 14+50N		0.082	0.05	0.62	63	0.20	4.84	74	<0.5
FGL088 15+00N		0.023	0.12	1.55	60	0.07	16.05	107	0.5
FGL088 15+50N		0.059	0.06	0.41	38	0.12	4.44	40	0.5
FGL088 16+00N		0.041	0.06	1.04	50	0.10	11.05	52	0.9
FGL088 17+00N		0.044	0.05	0.45	55	0.11	4.48	68	0.5
FGL088 17+50N		0.053	0.05	0.43	46	0.15	4.94	44	1.4
FGL088 18+00N		0.015	0.04	0.57	49	0.08	4.74	73	0.9
FGL088 18+50N		0.084	0.05	1.48	60	0.28	12.65	45	1.9
FGL088 19+00N		0.058	0.05	0.43	52	0.13	3.63	54	1.2
FGL088 19+50N		0.080	0.08	0.62	59	0.26	6.61	40	1.2
FGL088 20+00N		0.088	0.09	0.40	62	0.15	3.67	43	1.7
FGL088 20+50N		0.061	0.05	0.36	45	0.10	3.00	38	0.5
FGL088 21+00N		0.048	0.07	0.75	68	0.13	7.52	65	1.5
FGL088 21+50N		0.027	0.07	0.50	46	0.12	7.31	53	<0.5

***** See Appendix Page for comments regarding this certificate *****

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To: TRIUMPH GOLD CORP.
1111 MELVILLE STREET
SUITE 1100
VANCOUVER BC V6E 3V6

Project: Freegold Mtn - Tinta Property

CERTIFICATE OF ANALYSIS WH17164291

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

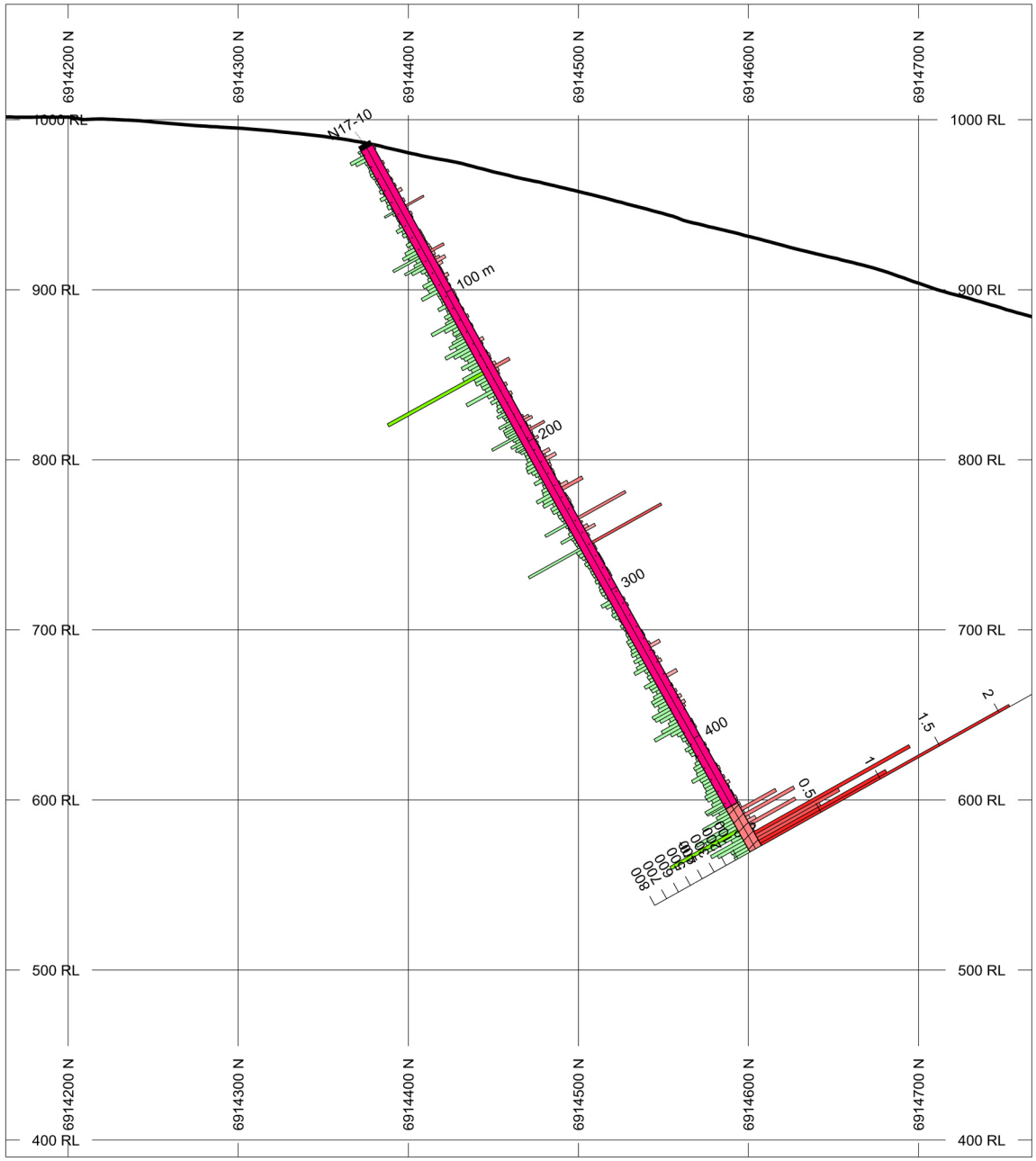
Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ST43 ME- MS41

APPENDIX E - 2017 Drill Sections



HOLES PLOTTED

TOTAL 1

N17-10

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Group		GRA	Granite
		MGR	Microgranite
		NRC	No Recovery

SECTION SPECS:

REF. PT. E, N	379180 m	6914465 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

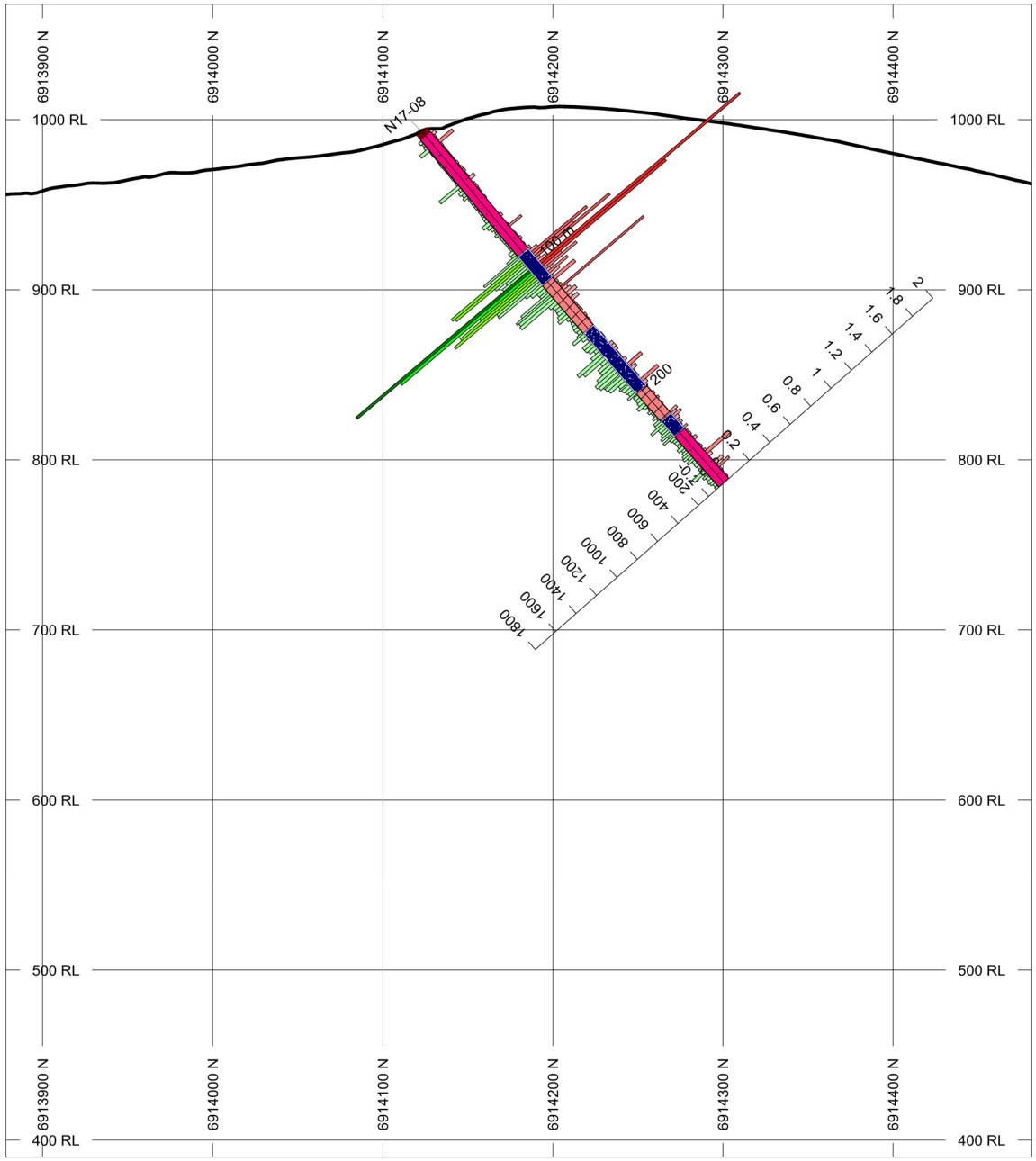
N

W E

S

Triumph Gold Corp.

379180E SECTION



HOLES PLOTTED

TOTAL 1

N17-08

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		MGR	Microgranite
		OVB	Overburden
		Metamorphic	Metamorphic

SECTION SPECS:

REF. PT. E, N	379240 m	6914180 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

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NAD83 / UTM zone 8N

AZIMUTH = 0°

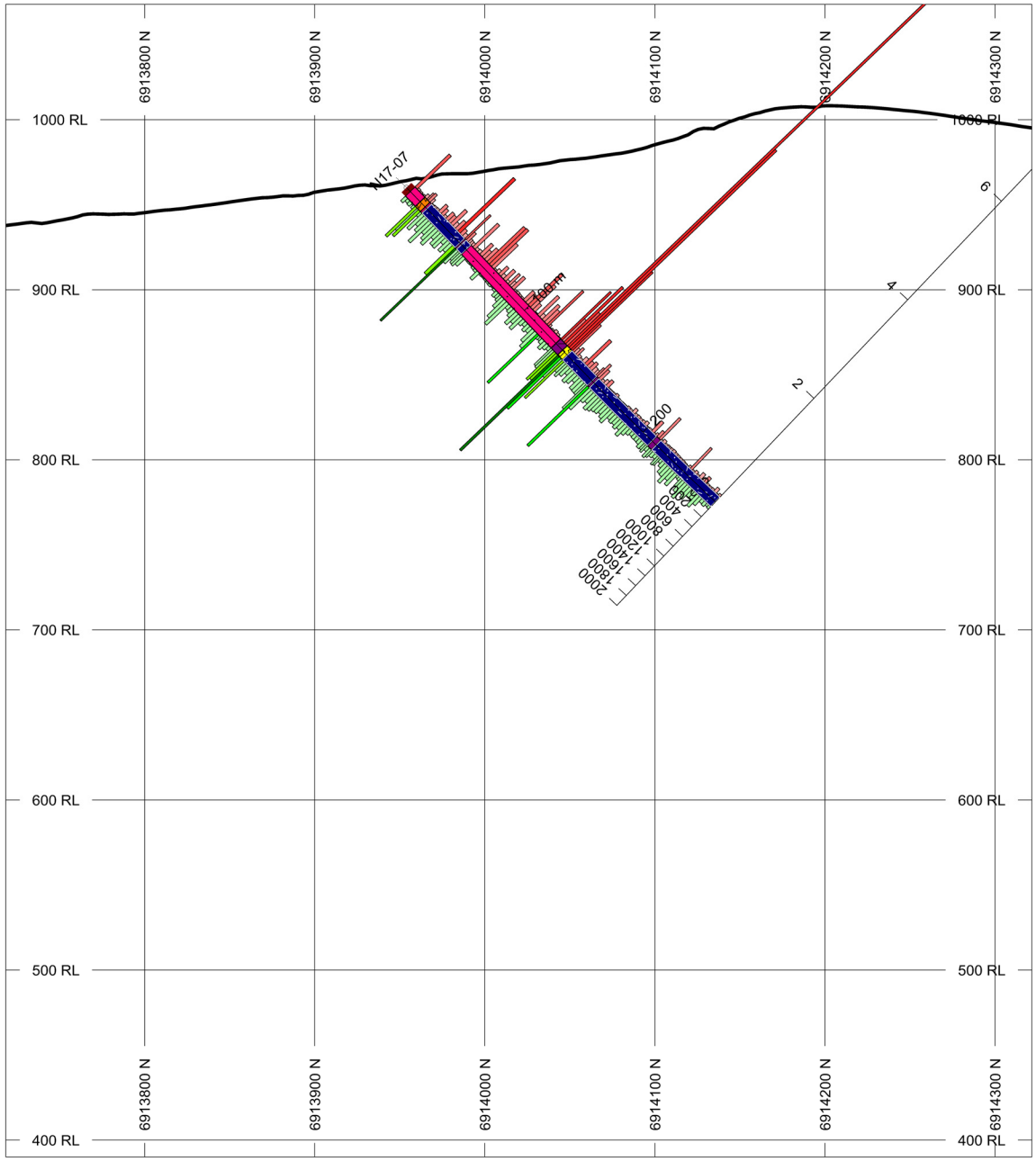
N

W E

S

Triumph Gold Corp.

379240E SECTION



HOLES PLOTTED

TOTAL 1

N17-07

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		BRX	Breccia
		MGR	Microgranite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		Metamorphic	Metamorphic
		Metasomatic/other	Metasomatic/other

SECTION SPECS:

REF. PT. E, N	379245 m	6914020 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

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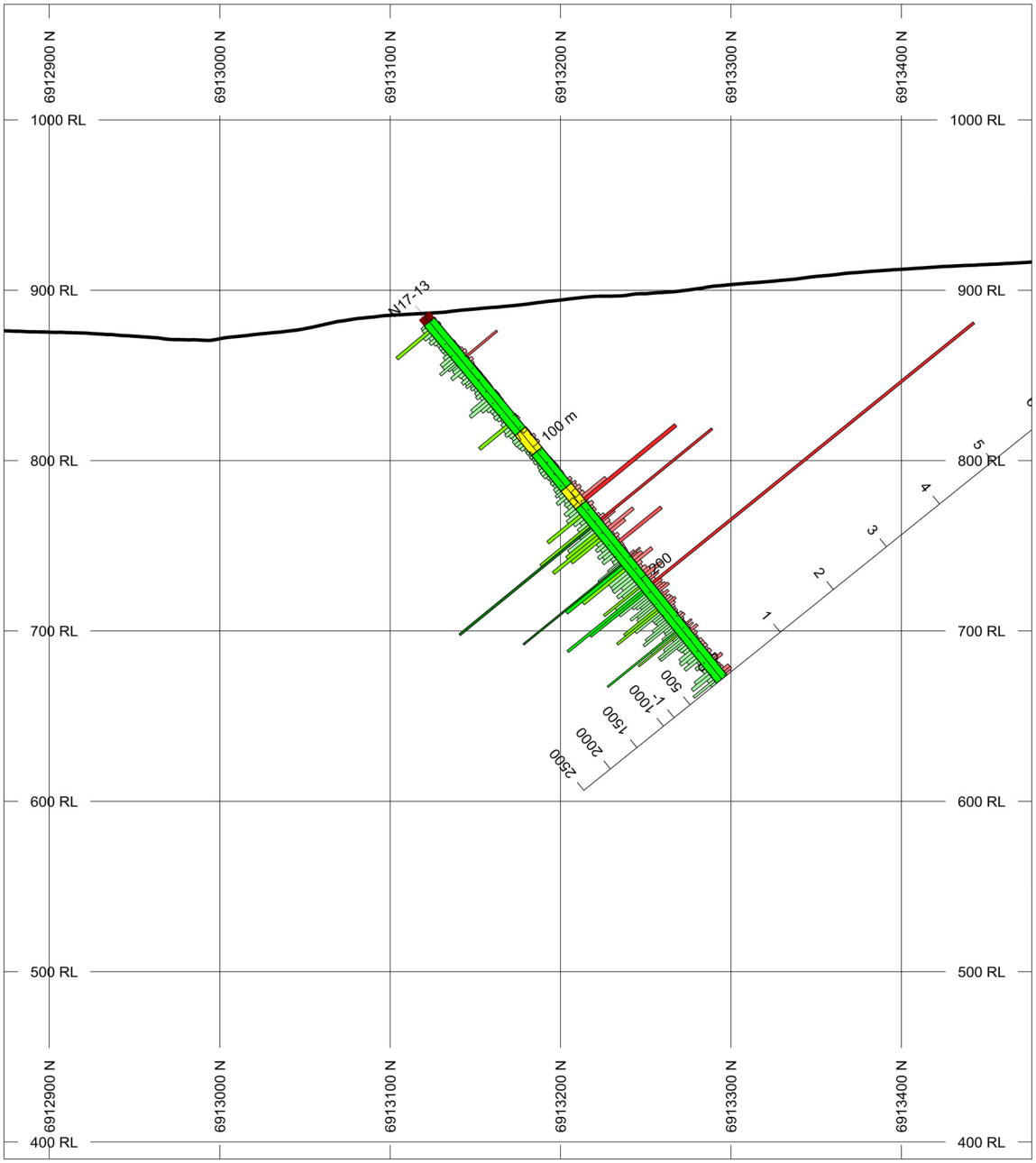
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

379245E SECTION



HOLES PLOTTED

TOTAL 1

N17-13

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Group		BRX	Breccia
		OVB	Overburden
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379245 m	6913175 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

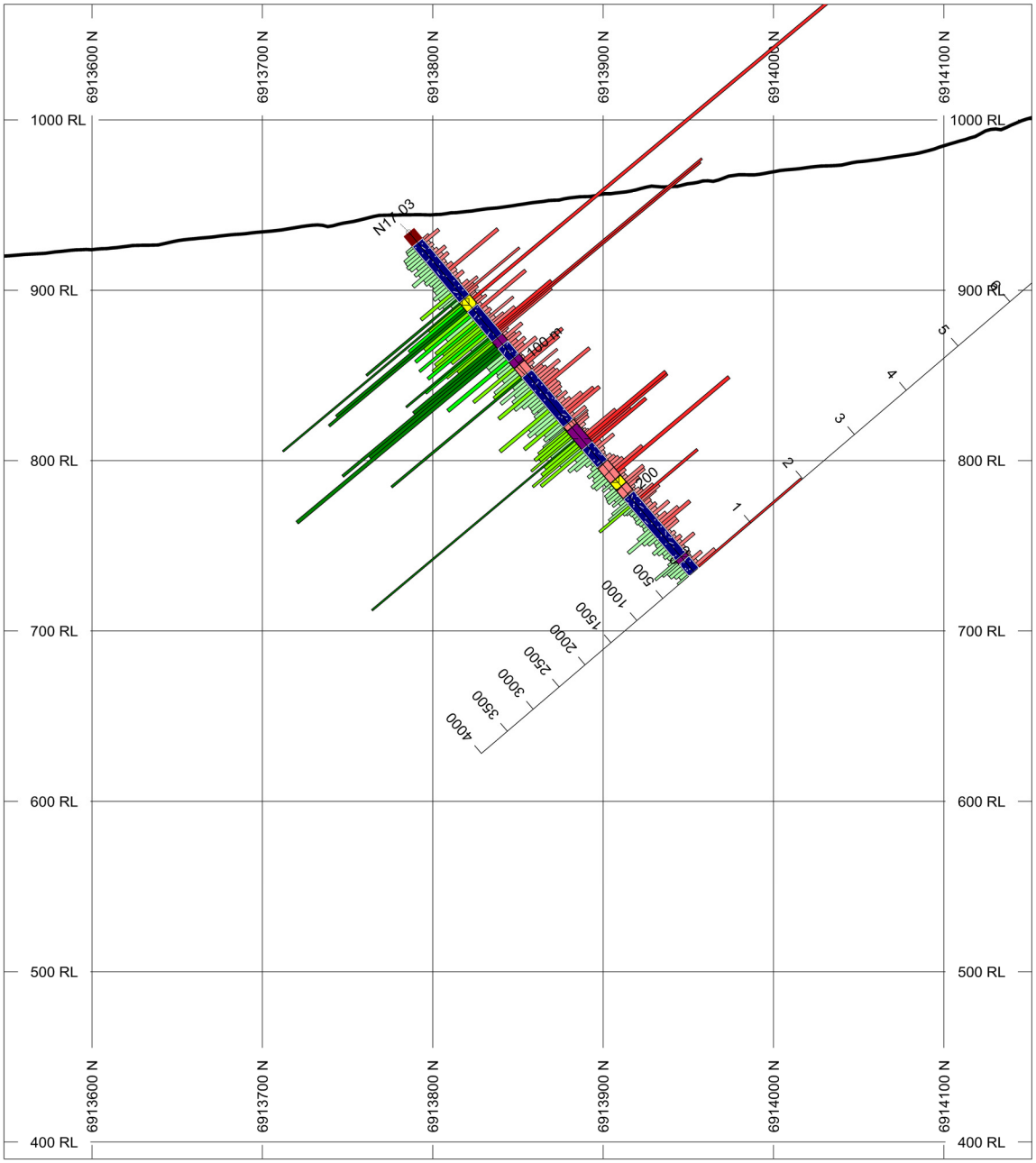
N

W E

S

Triumph Gold Corp.

379245E SECTION



HOLES PLOTTED

TOTAL 1

N17-03

TOPOGRAPHY

topo.GRD

BAR GRAPHS L/R COL

Au_ppm R

1
0.5
0.1

Cu_ppm L

1500
1000
500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		HBX	Hydrothermal Breccia
		LEU	Leucograntie
		Metamorphic	Metamorphic

SECTION SPECS:

REF. PT. E, N	379250 m	6913850 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

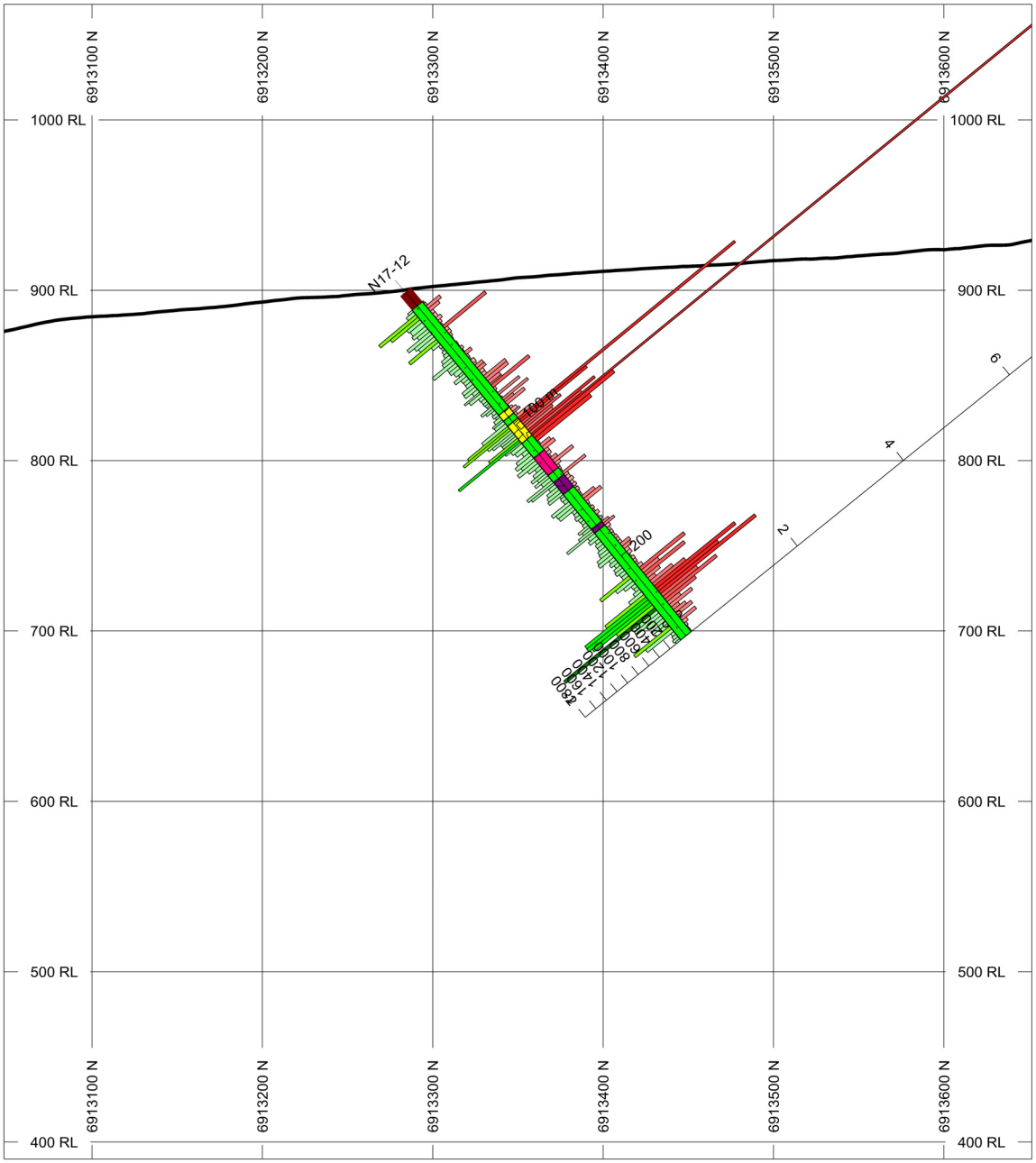
N

W E

S

Triumph Gold Corp.

379250E SECTION



HOLES PLOTTED

TOTAL 1

N17-12

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Group		BRX	Breccia
		MGR	Microgranite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379250 m	6913350 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

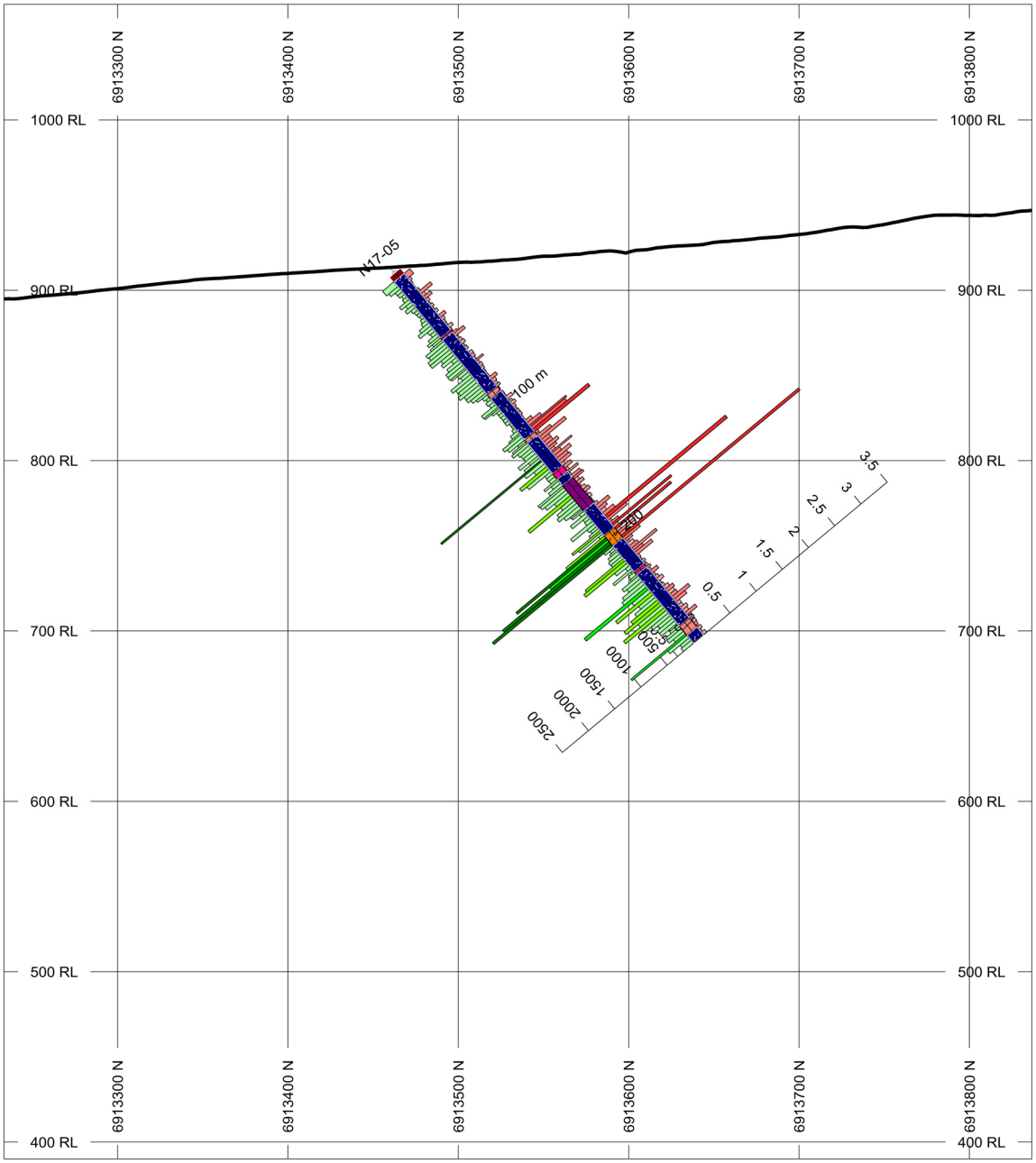
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

379250E SECTION



HOLES PLOTTED

TOTAL 1

N17-05

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		MGR	Microgranite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		Metamorphic	Metamorphic
		Metasomatic/other	Metasomatic/other

SECTION SPECS:

REF. PT. E, N	379255 m	6913535 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

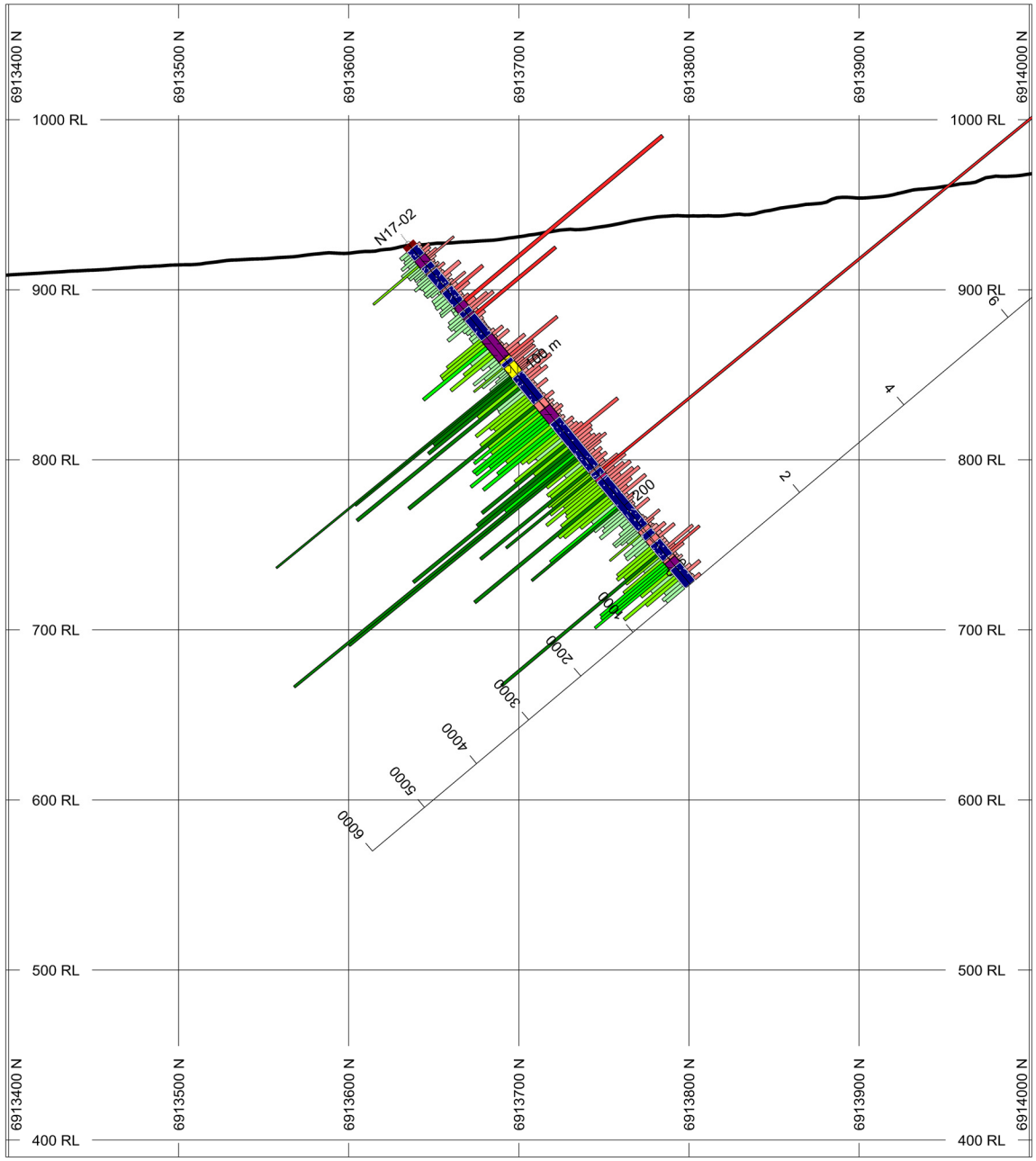
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

379255E SECTION



HOLES PLOTTED

TOTAL 1

N17-02

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		MGR	Microgranite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		HBX	Hydrothermal Breccia
		LEU	Leucograntie
		Metamorphic	Metamorphic

SECTION SPECS:

REF. PT. E, N	379260 m	6913700 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

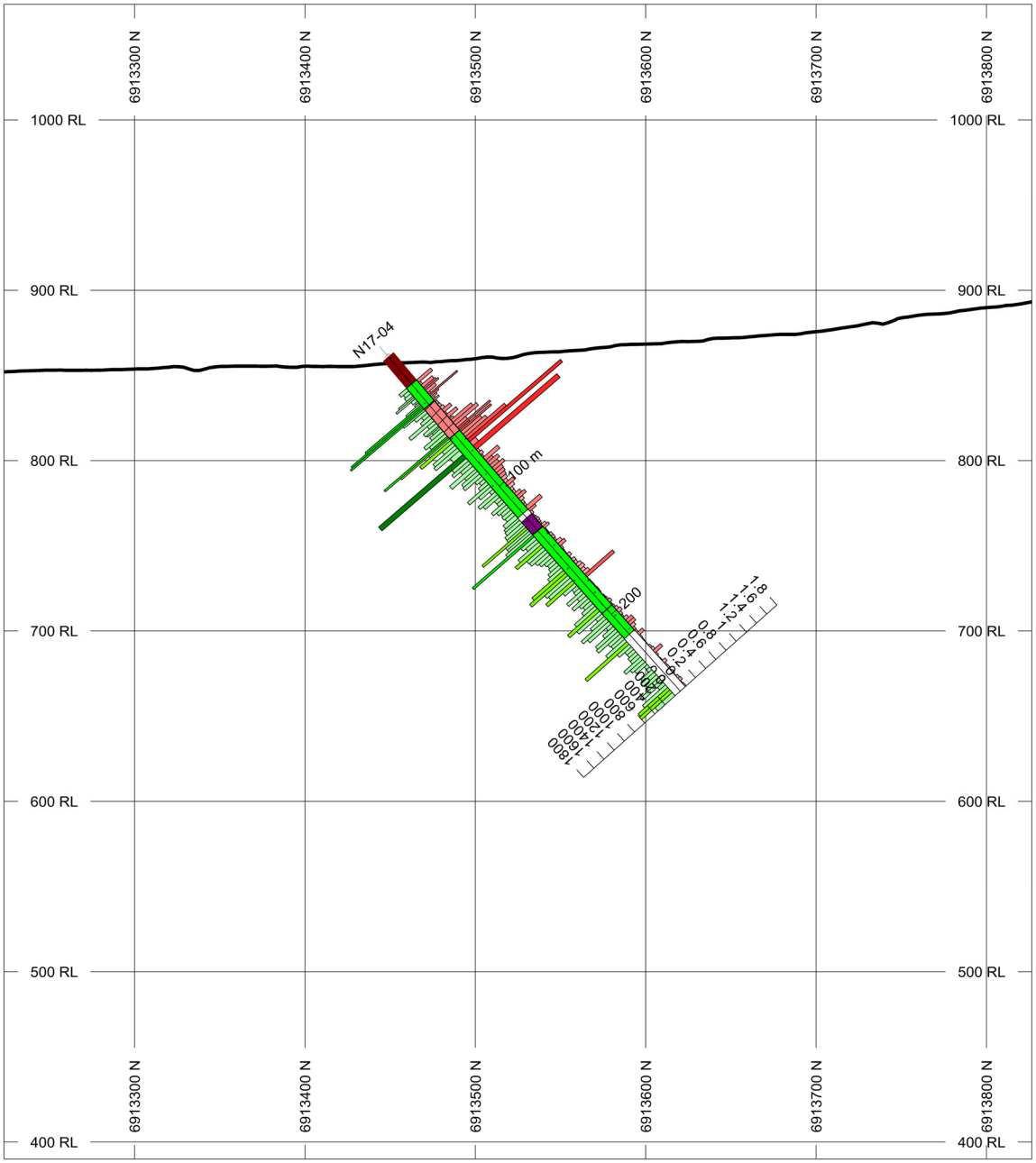
N

W E

S

Triumph Gold Corp.

379260E SECTION



HOLES PLOTTED

TOTAL 1

N17-04

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Group		GNE	Gneiss
		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379465 m	6913525 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

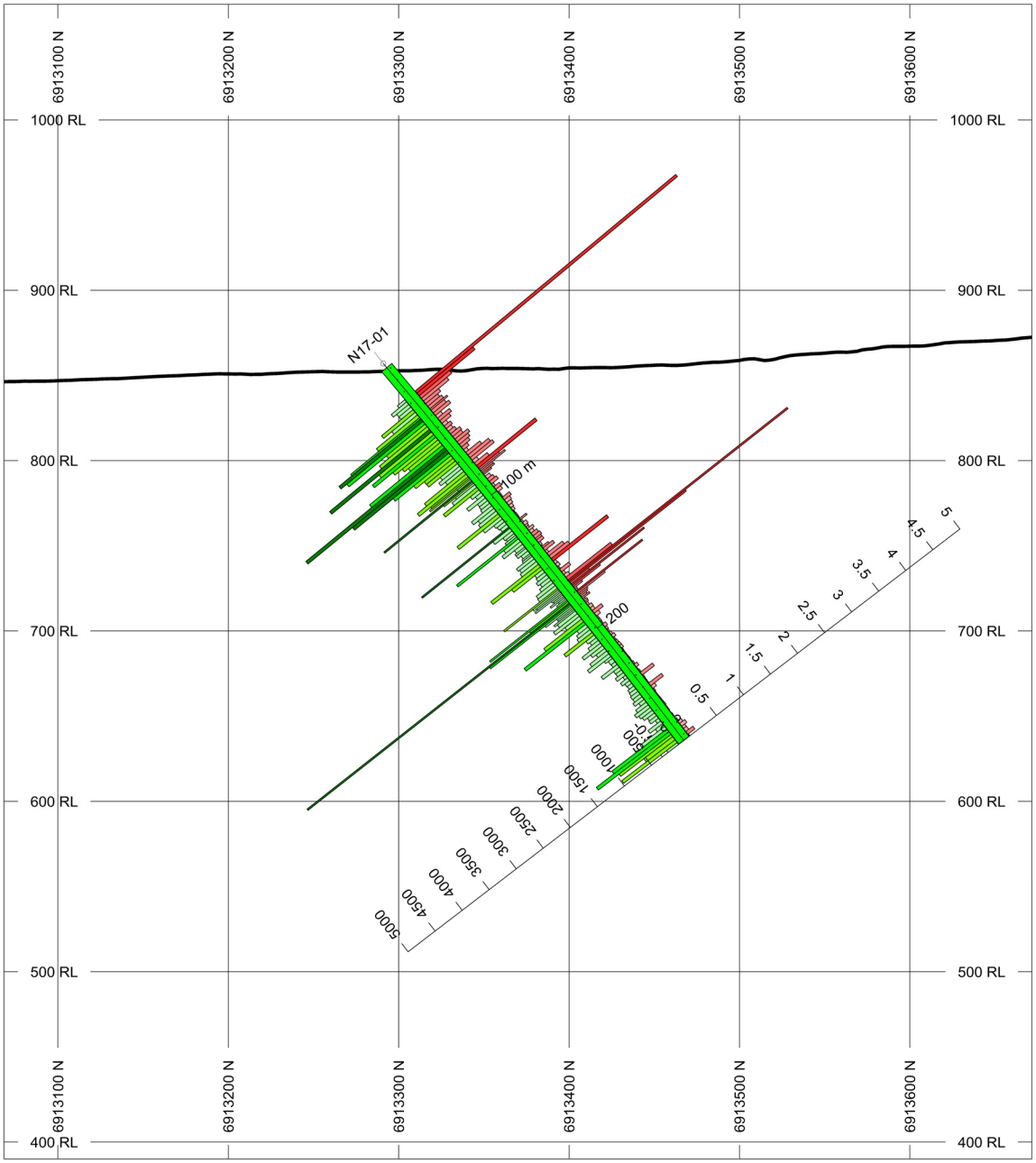
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

379465E SECTION



HOLES PLOTTED

TOTAL 1

N17-01

TOPOGRAPHY

topo.GRD

BAR GRAPHS L/R COL

Au_ppm R

1
0.5
0.1

Cu_ppm L

1500
1000
500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Group		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379470 m	6913370 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

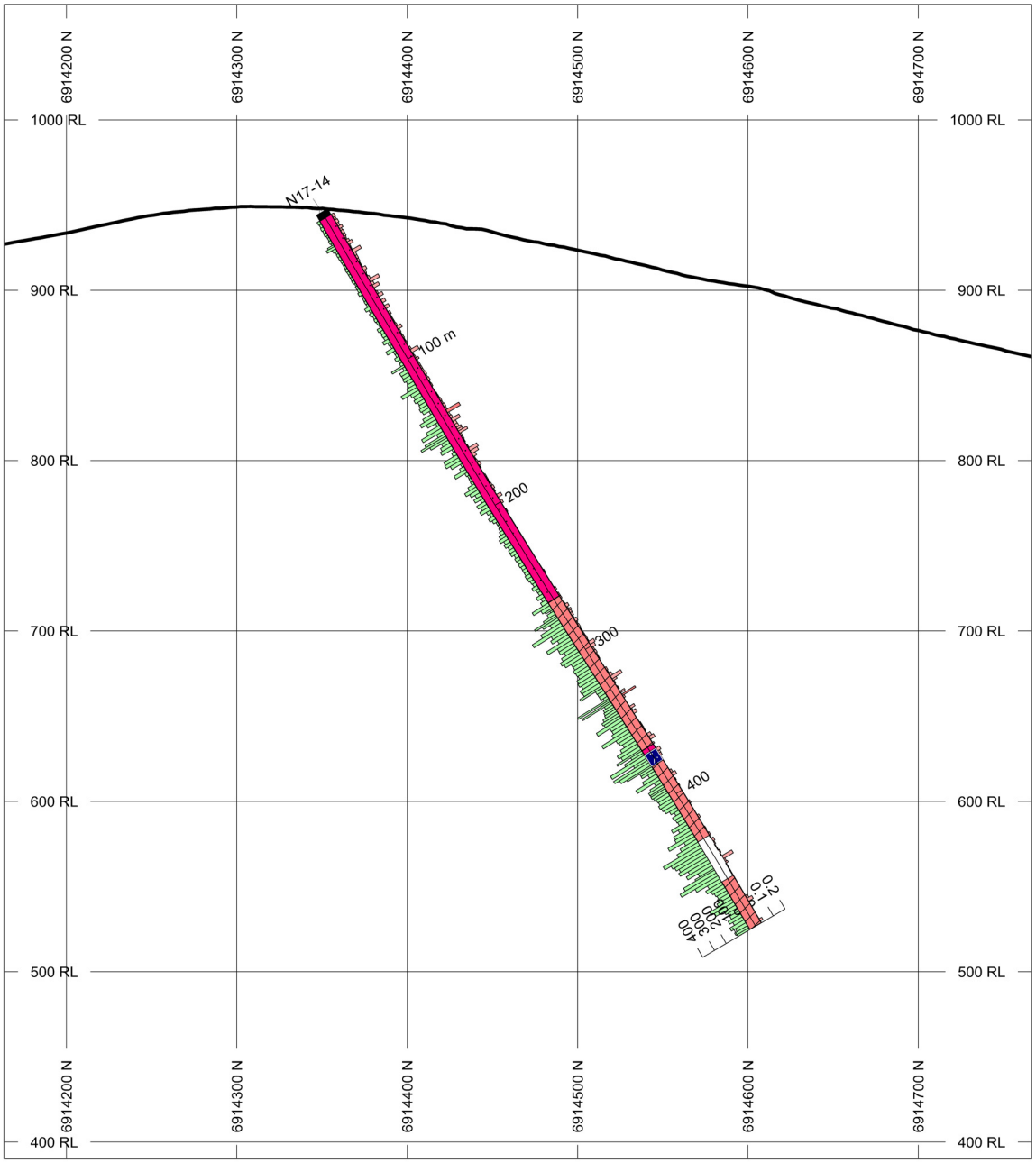
N

W E

S

Triumph Gold Corp.

379470E SECTION



HOLES PLOTTED

TOTAL 1

N17-14

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		MGR	Microgranite
		NRC	No Recovery
		Metamorphic	Metamorphic

SECTION SPECS:

REF. PT. E, N	379485 m	6914465 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

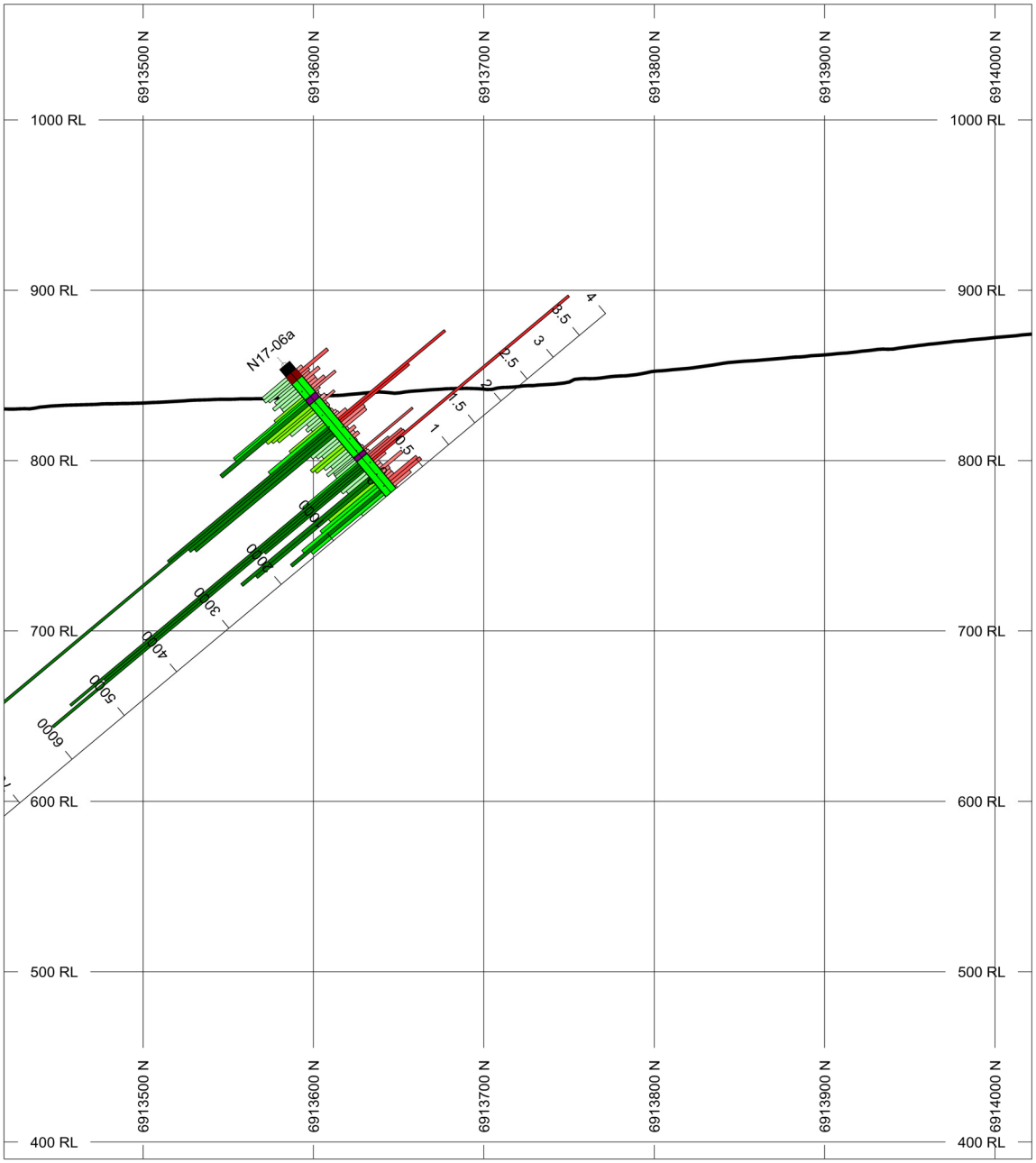
N

W E

S

Triumph Gold Corp.

379485E SECTION



HOLES PLOTTED

TOTAL 1

N17-06a

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Group		NRC	No Recovery
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379610 m	6913720 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

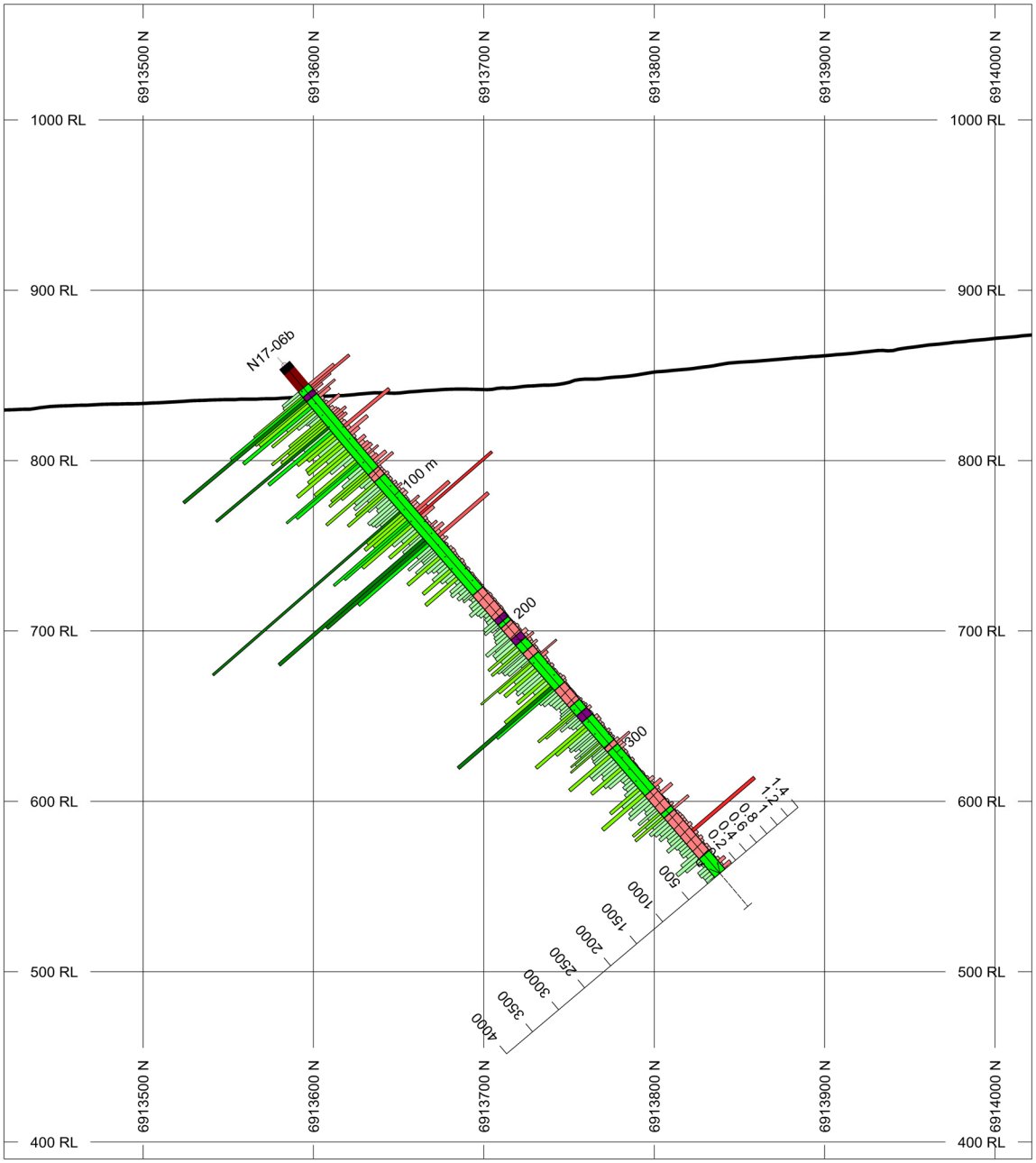
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

379610E SECTION



HOLES PLOTTED

TOTAL 1

N17-06b

TOPOGRAPHY

topo.GRD

BAR GRAPHS L/R COL

Au_ppm R

1
0.5
0.1

Cu_ppm L

1500
1000
500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		NRC	No Recovery
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379612 m	6913720 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

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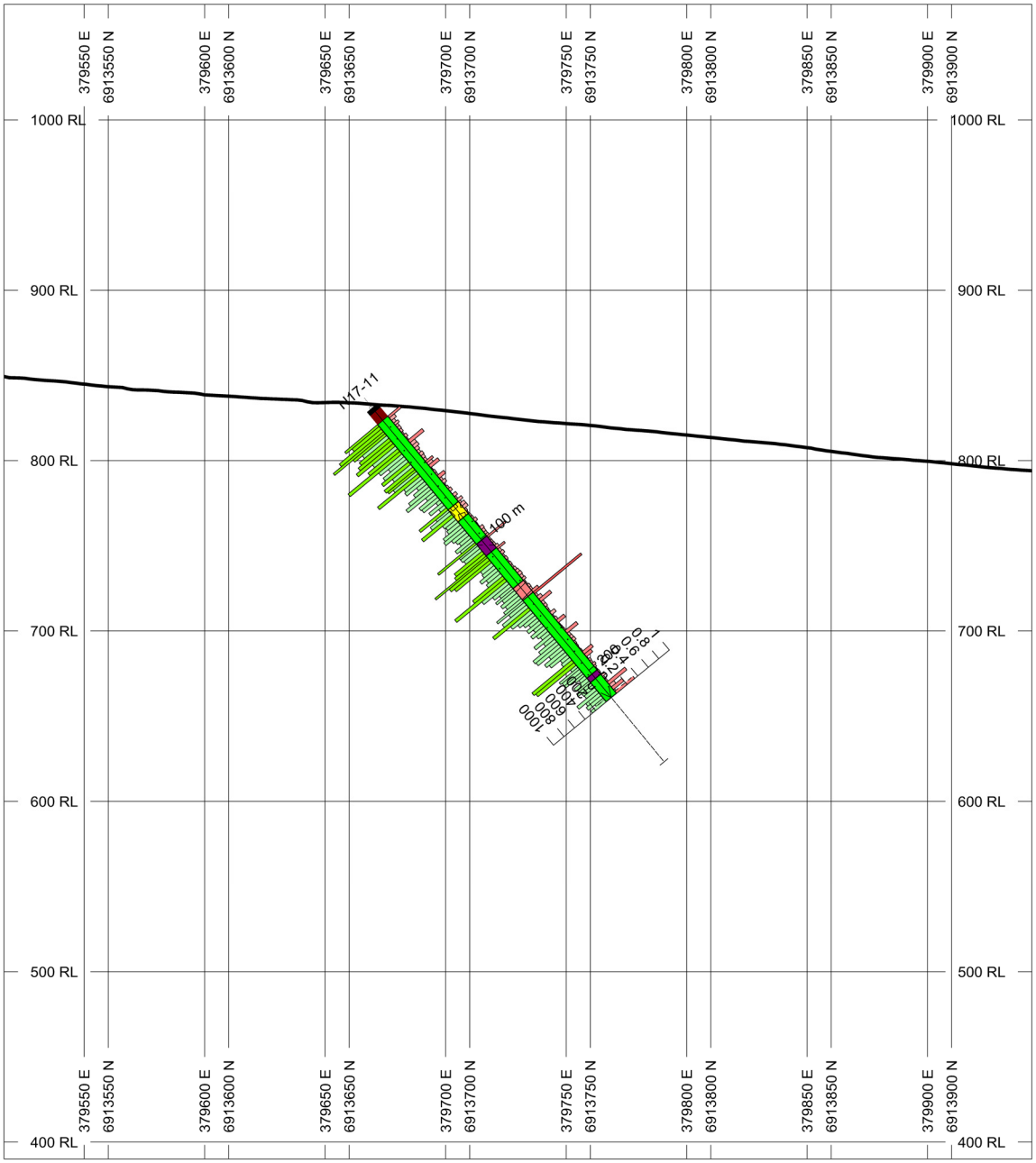
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

379612E SECTION



HOLES PLOTTED

TOTAL 1

N17-11

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		BRX	Breccia
		GRA	Granite
		NRC	No Recovery
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379730 m	6913720 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 45°

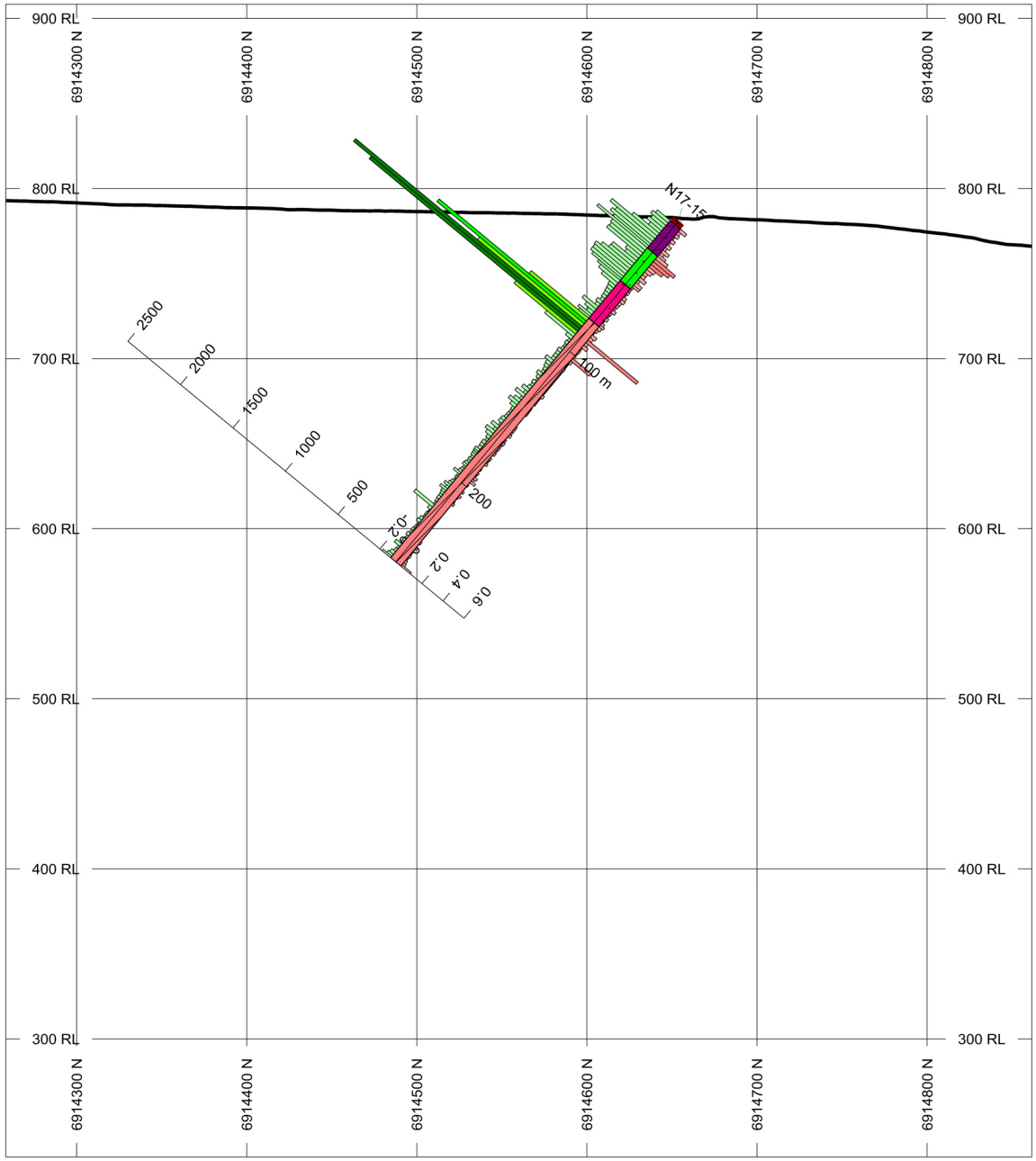
N

W E

S

Triumph Gold Corp.

379730E SECTION



HOLES PLOTTED

TOTAL 1

N17-15

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		MGR	Microgranite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379975 m	6914560 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	908.3 m	230.7 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

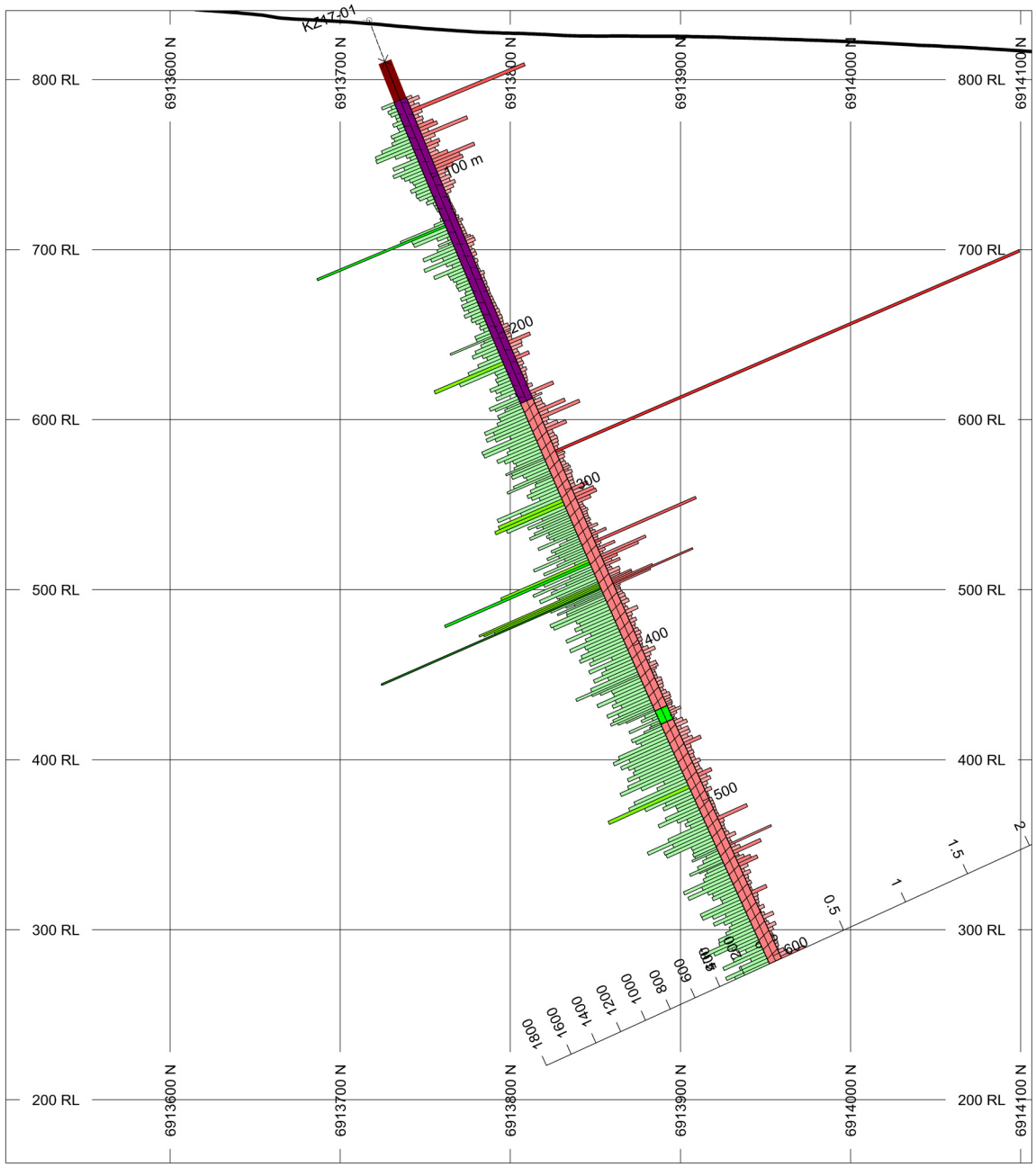
N

W E

S

Triumph Gold Corp.

379975E SECTION



HOLES PLOTTED

TOTAL 1

KZ17-01

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRD	Granodiorite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	380470 m	6913805 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	840.5 m	162.9 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 0°

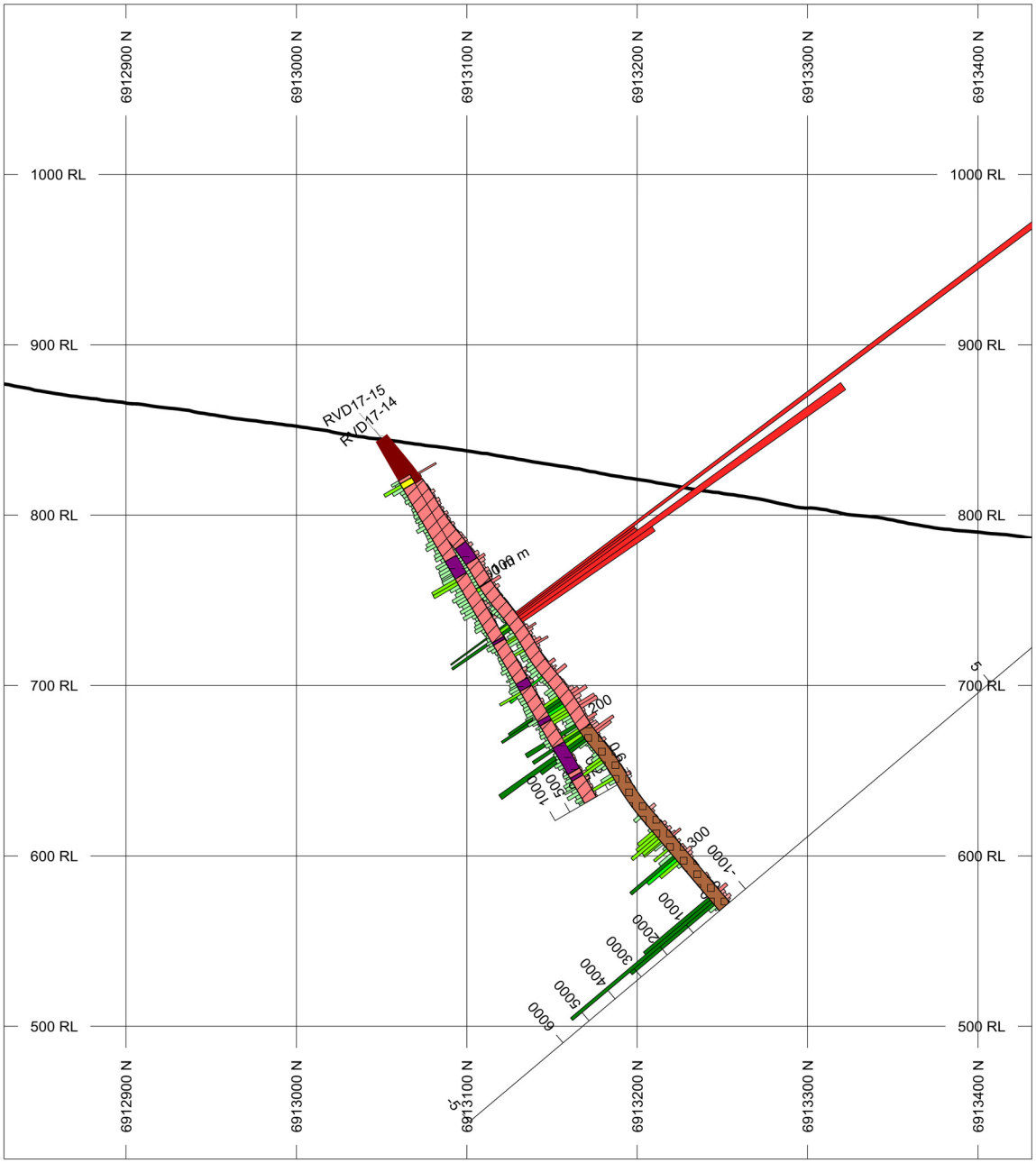
N

W E

S

Triumph Gold Corp.

380470E SECTION



HOLES PLOTTED

TOTAL 2

RVD17-14 RVD17-15

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		BRX	Breccia
		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		TUF	Tuff

SECTION SPECS:

REF. PT. E, N	382200 m	6913130 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

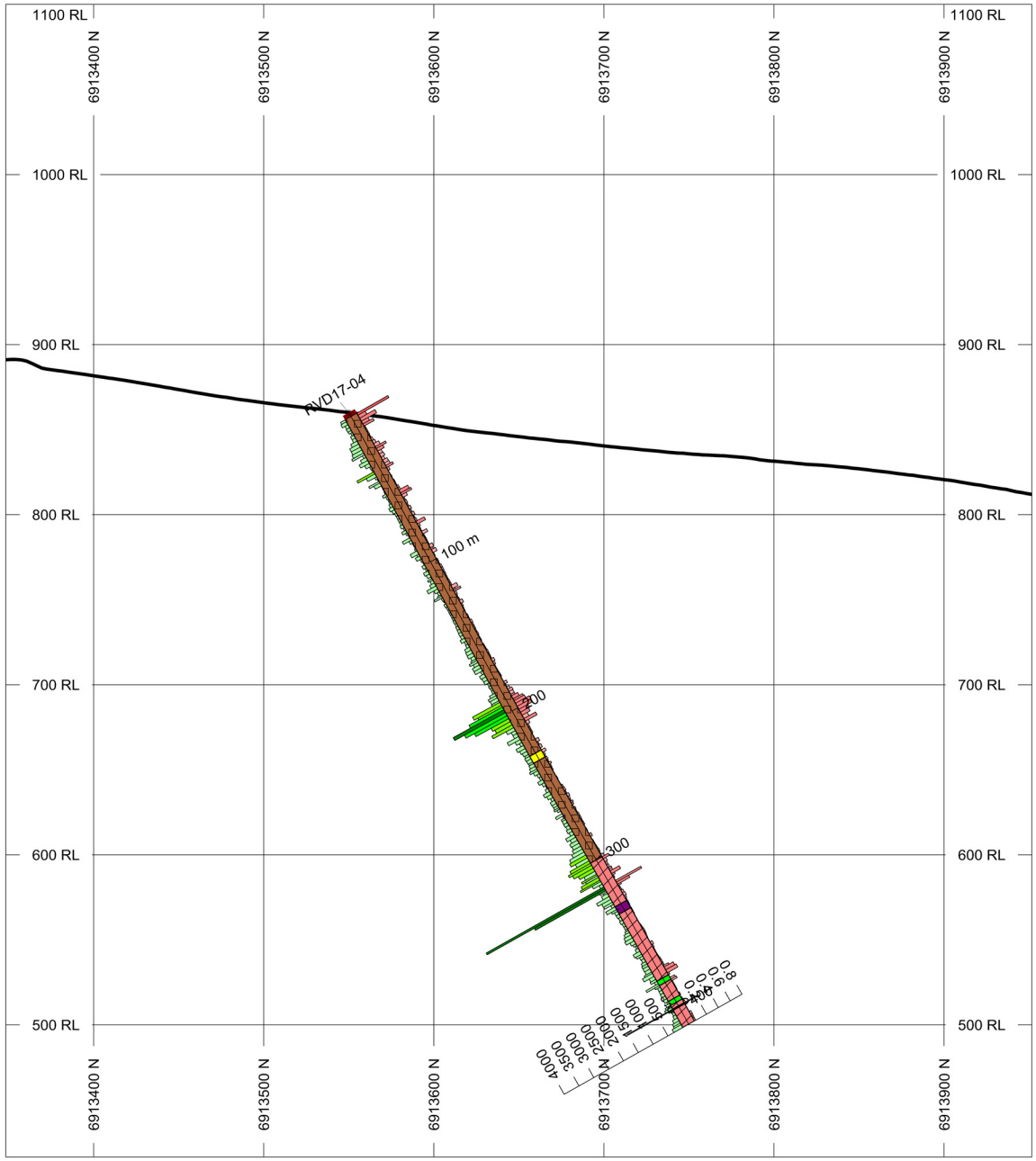
AZIMUTH = 0°

N W E S

Triumph Gold Corp.

Freegold Mountain

2017 Drilling



HOLES PLOTTED

TOTAL 1

RVD17-04

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Plot	PAT	LABEL	DESCRIPTION
		BRX	Breccia
		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist
		TUF	Tuff

SECTION SPECS:

REF. PT. E, N	382650 m	6913650 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

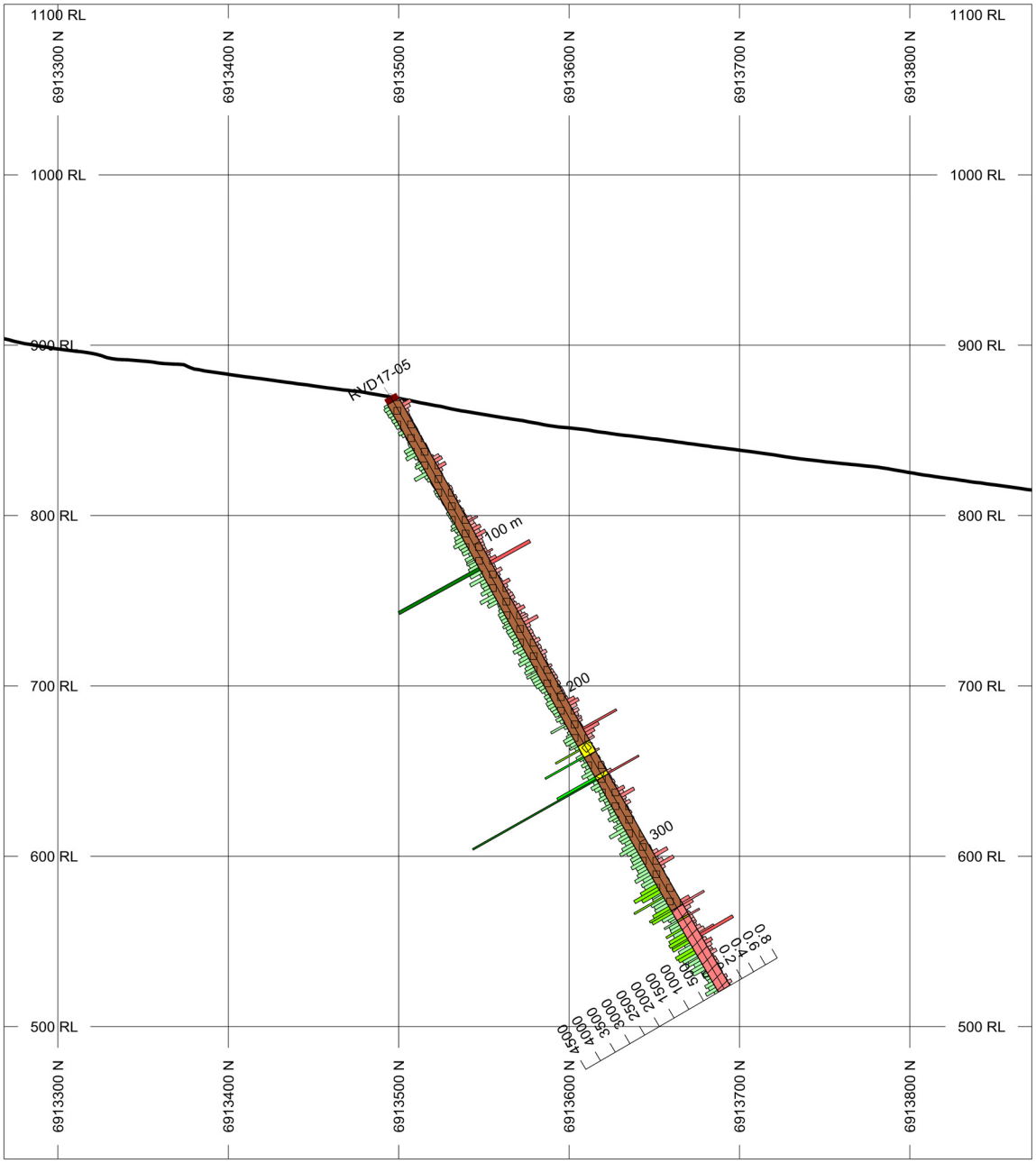
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

382650E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-05

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		BRX	Breccia
		GRA	Granite
		OVB	Overburden
		TUF	Tuff

SECTION SPECS:

REF. PT. E, N	382750 m	6913570 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

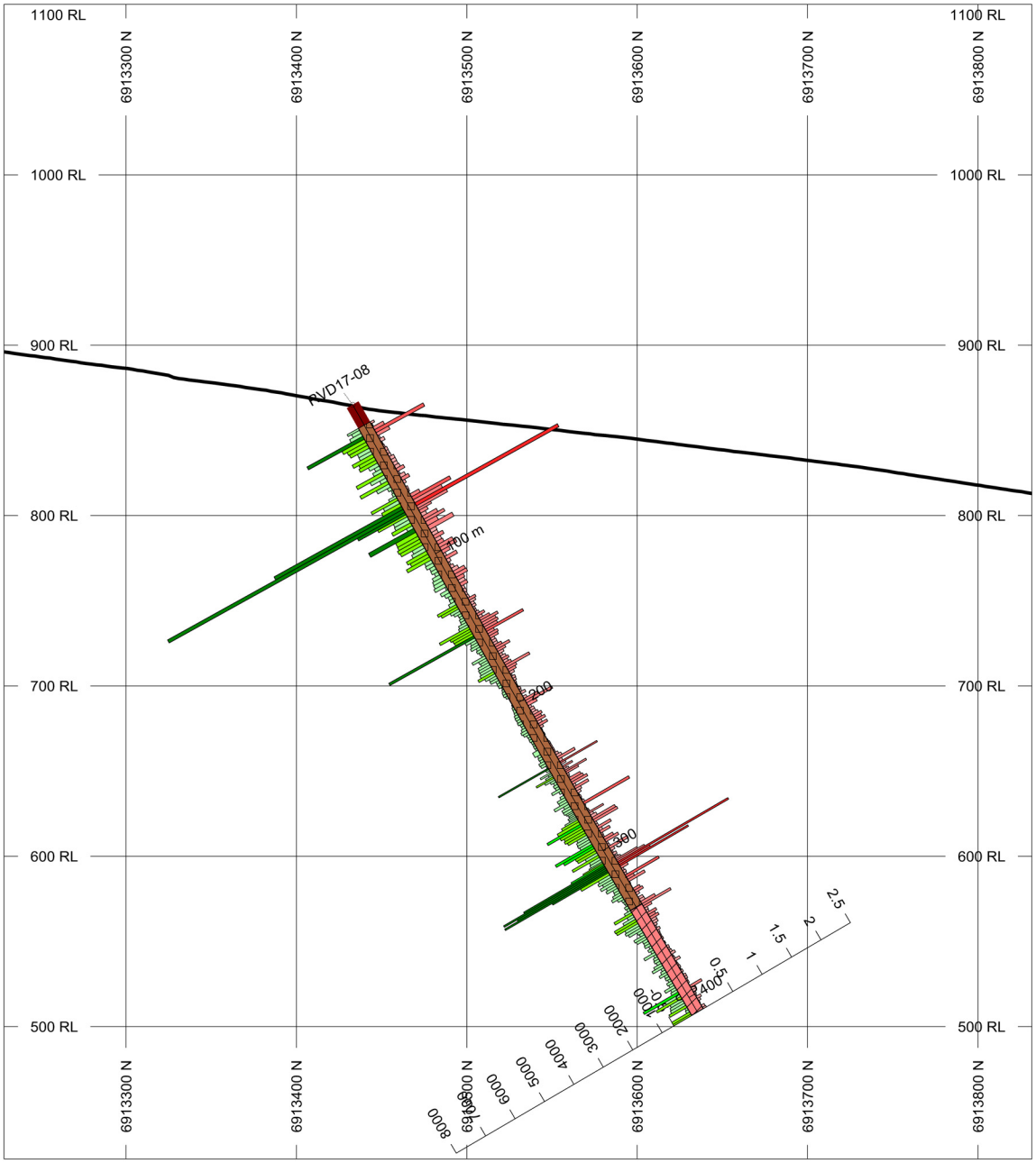
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

382750E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-08

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden
		TUF	Tuff

SECTION SPECS:

REF. PT. E, N	382840 m	6913530 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

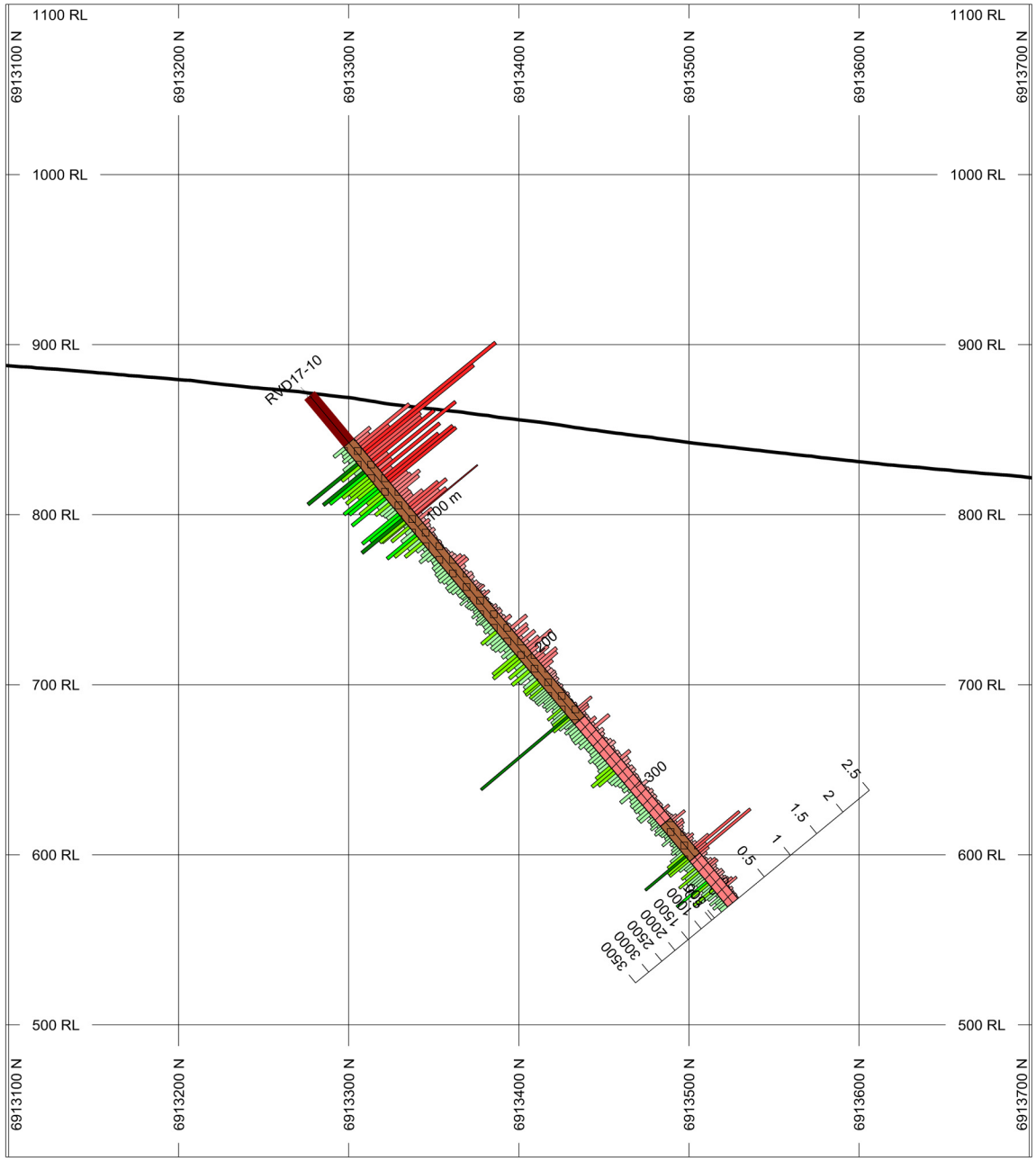
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

382840E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-10

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden
		TUF	Tuff

SECTION SPECS:

REF. PT. E, N	382960 m	6913400 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

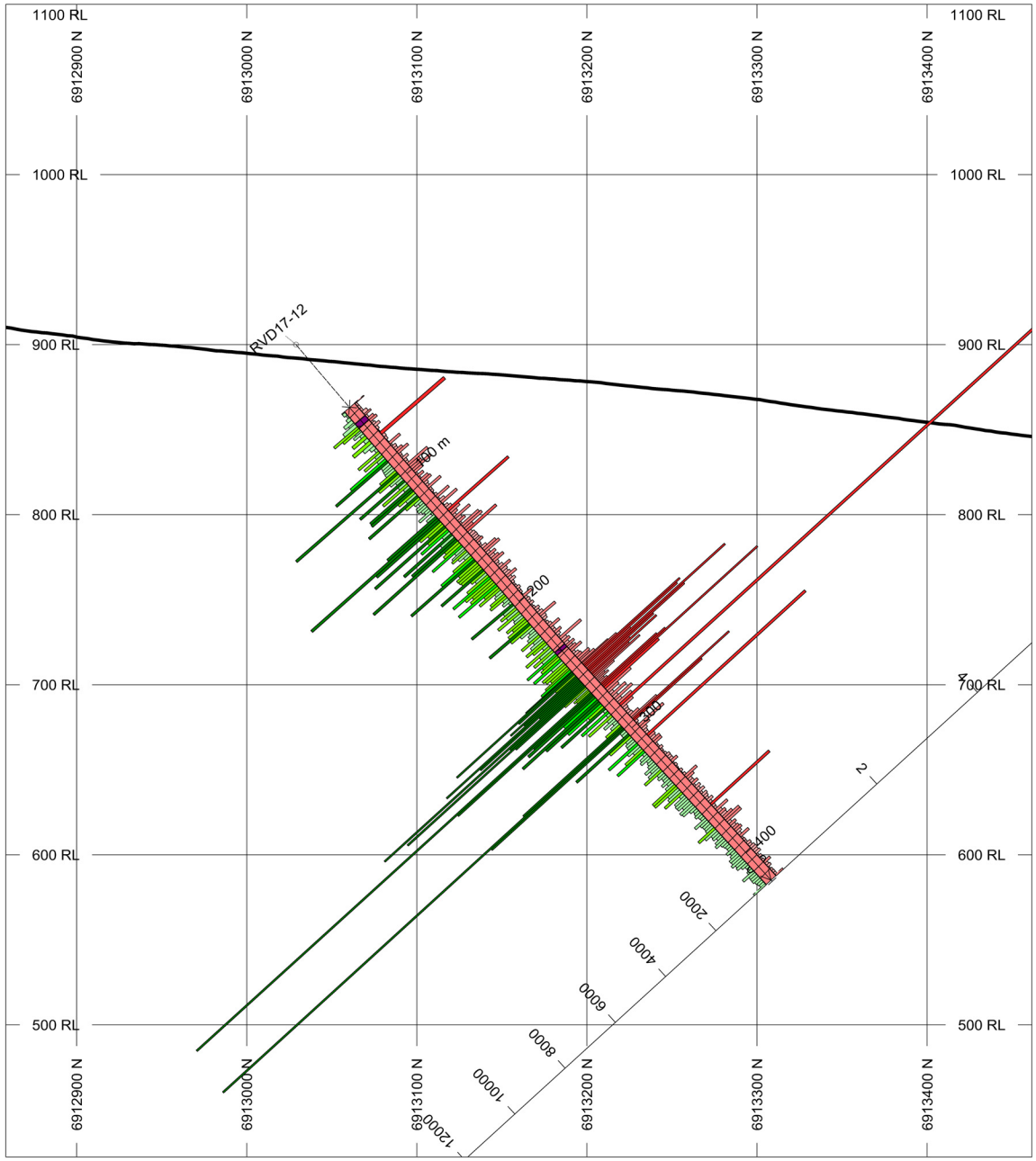
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

382960E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-12

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry

SECTION SPECS:

REF. PT. E, N	382970 m	6913160 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

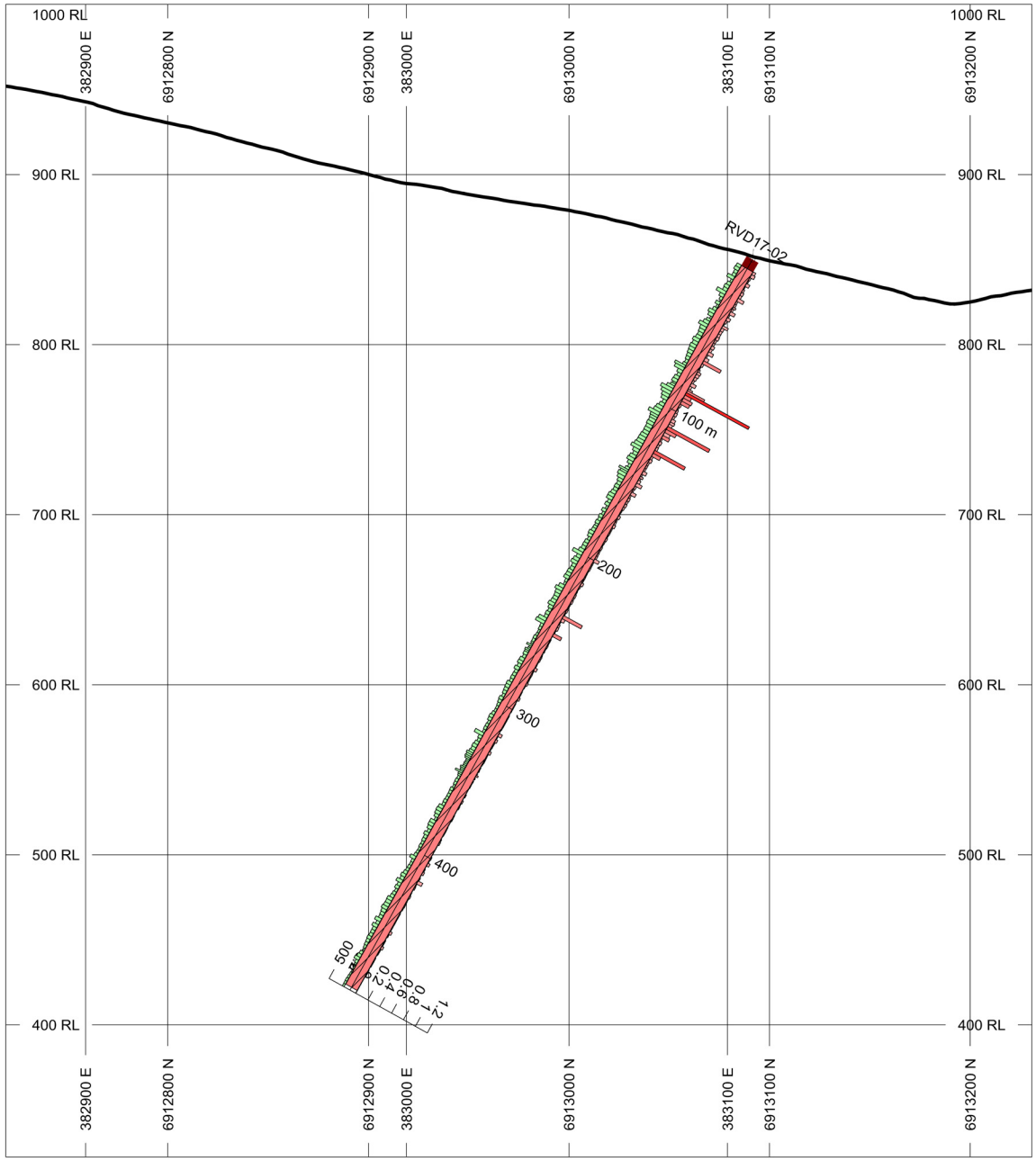
NAD83 / UTM zone 8N

AZIMUTH = 0°

N W E S

Triumph Gold Corp.

382970E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-02

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden

SECTION SPECS:

REF. PT. E, N	383035 m	6912975 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1000 m	322.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

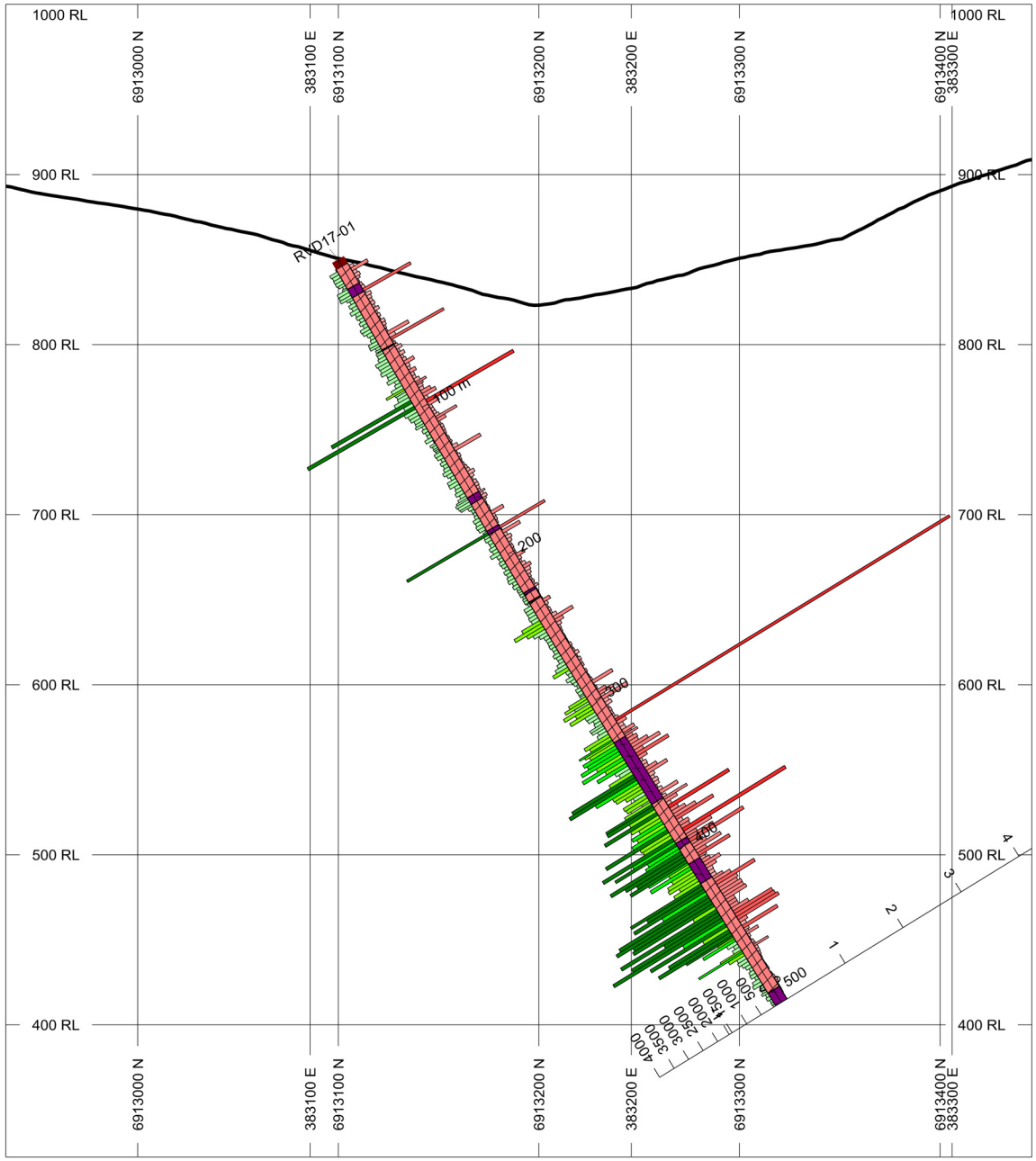
NAD83 / UTM zone 8N

AZIMUTH = 32°

N W E S

Triumph Gold Corp.

383035E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-01

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		MAF	Mafic

SECTION SPECS:

REF. PT. E, N	383165 m	6913190 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1000 m	322.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

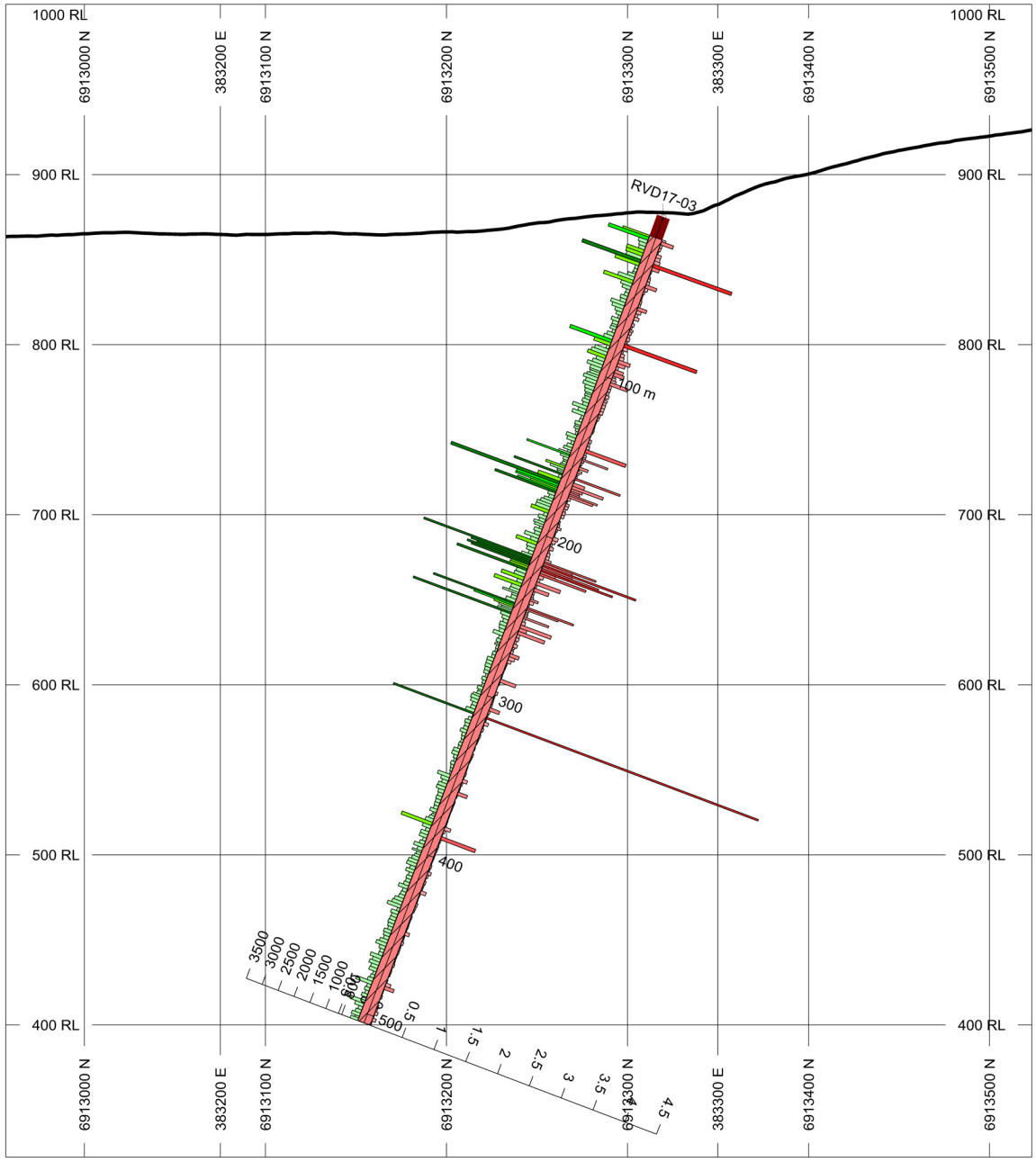
NAD83 / UTM zone 8N

AZIMUTH = 32°

N W E S

Triumph Gold Corp.

383165E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-03

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden

SECTION SPECS:

REF. PT. E, N	383260 m	6913240 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1000 m	322.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

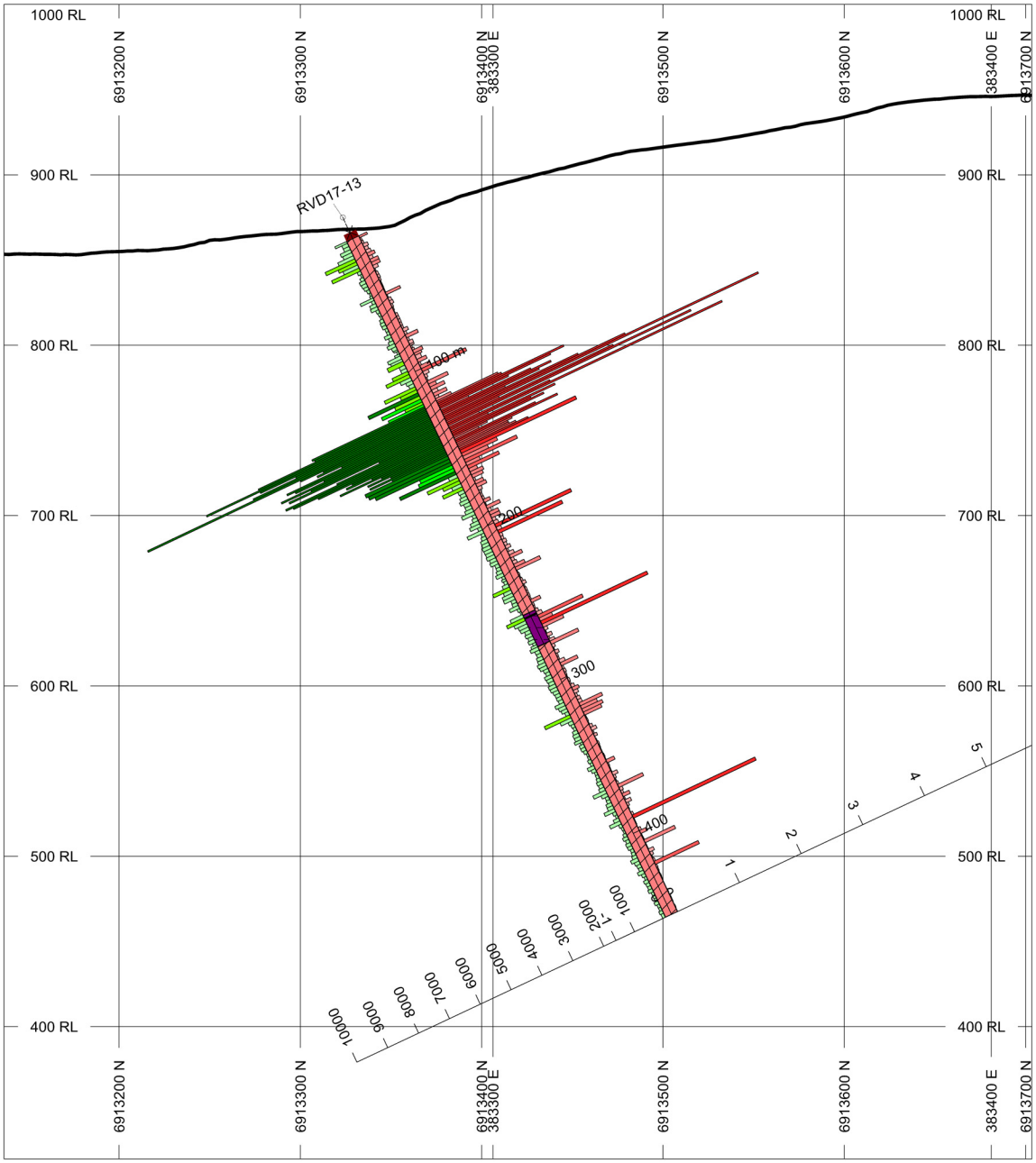
NAD83 / UTM zone 8N

AZIMUTH = 20°

N W E S

Triumph Gold Corp.

383260E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-13

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry

SECTION SPECS:

REF. PT. E, N	383305 m	6913420 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1000 m	322.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

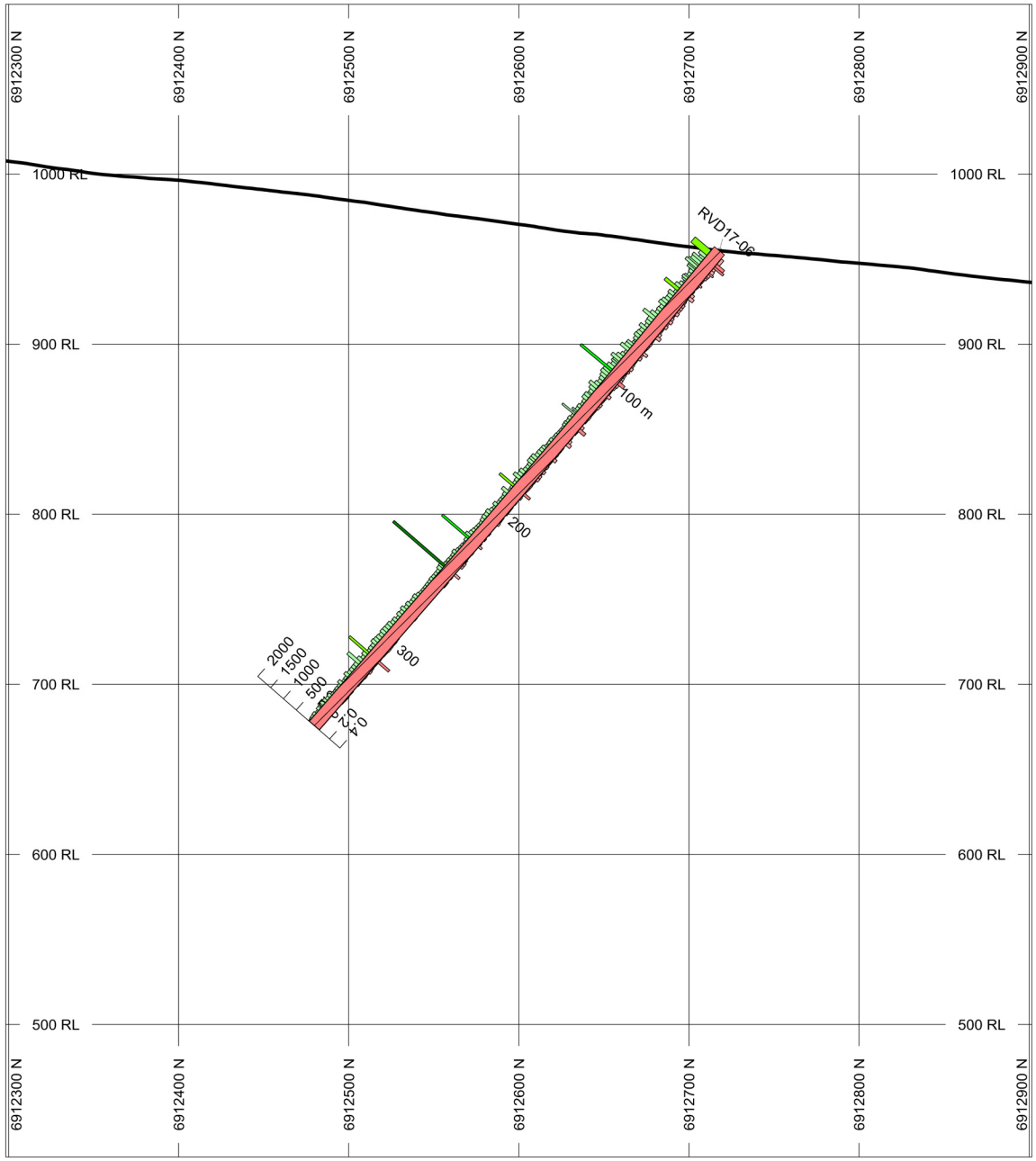
NAD83 / UTM zone 8N

AZIMUTH = 20°

N W E S

Triumph Gold Corp.

383305E SECTION



HOLES PLOTTED

TOTAL 1

RVD17-06

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite

SECTION SPECS:

REF. PT. E, N	383315 m	6912600 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

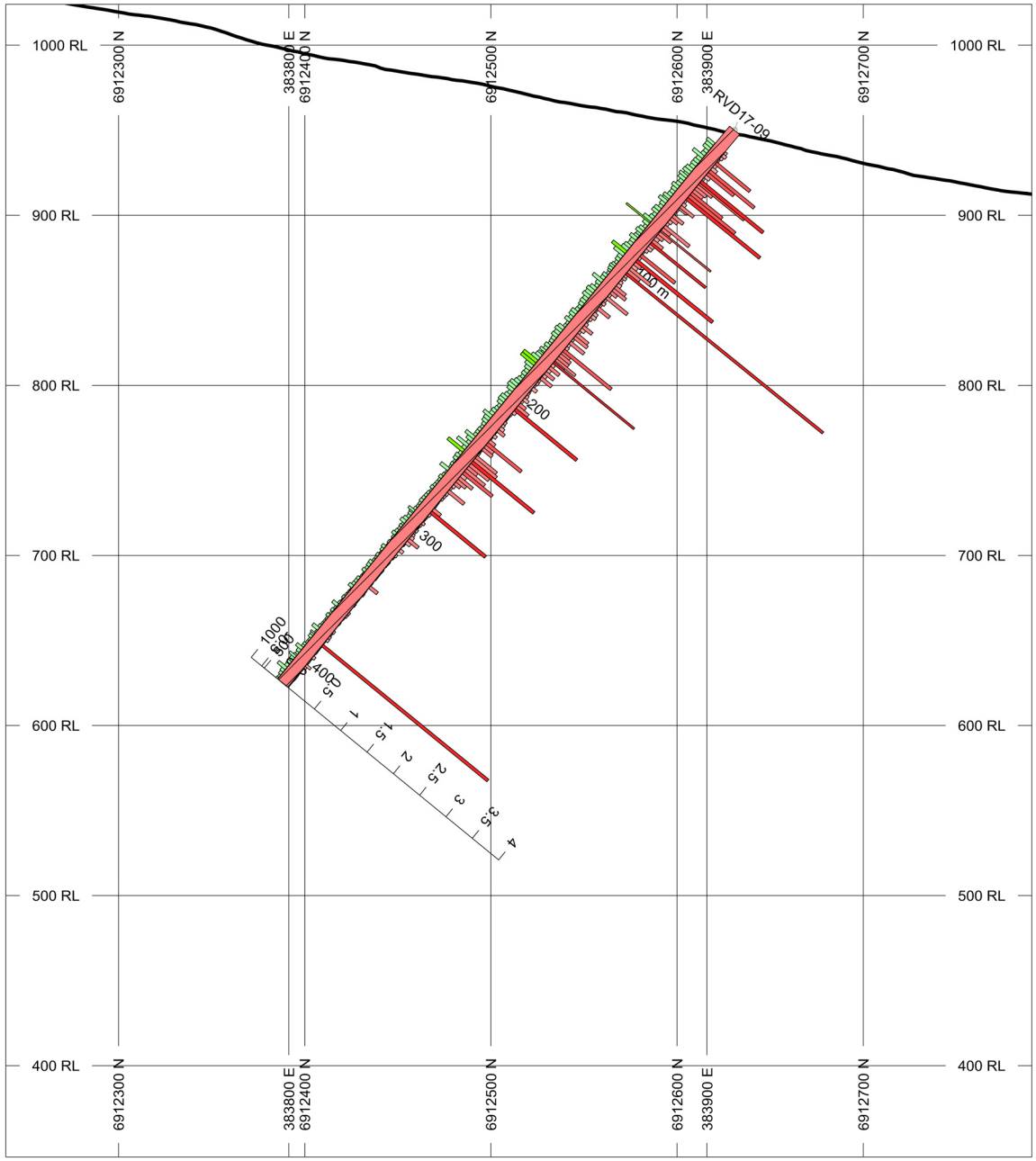
AZIMUTH = 0°

N W E S

Triumph Gold Corp.

Freegold Mountain

2017 Drilling



HOLES PLOTTED

TOTAL 1

RVD17-09

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite

SECTION SPECS:

REF. PT. E, N	383855 m	6912515 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1024 m	346.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

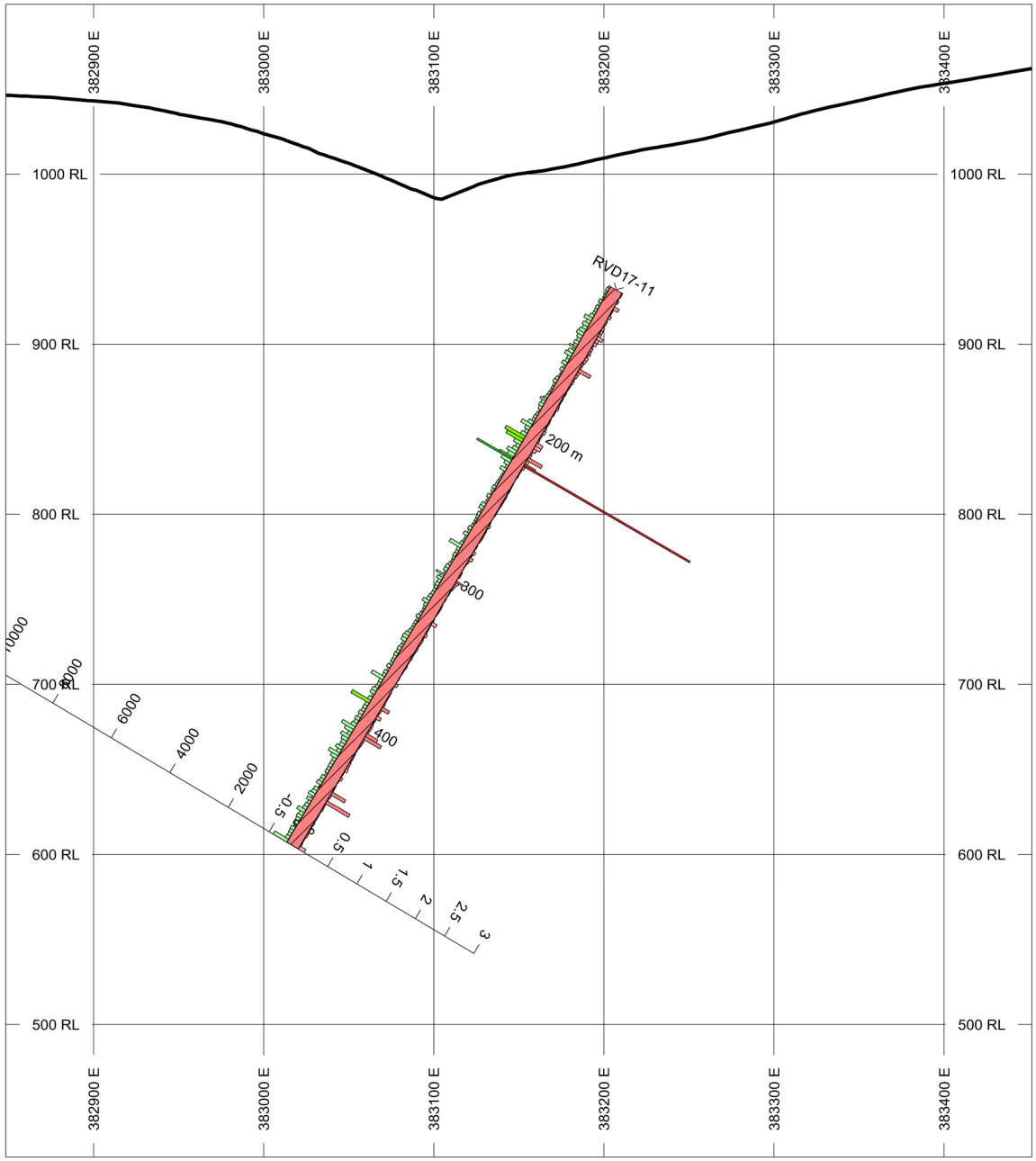
AZIMUTH = 24°

N W E S

Triumph Gold Corp.

Freegold Mountain

2017 Drilling



HOLES PLOTTED

TOTAL 1

RVD17-11

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith_Plot		GRA	Granite
		OVB	Overburden

SECTION SPECS:

REF. PT. E, N	383150 m	6912100 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1100 m	422.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

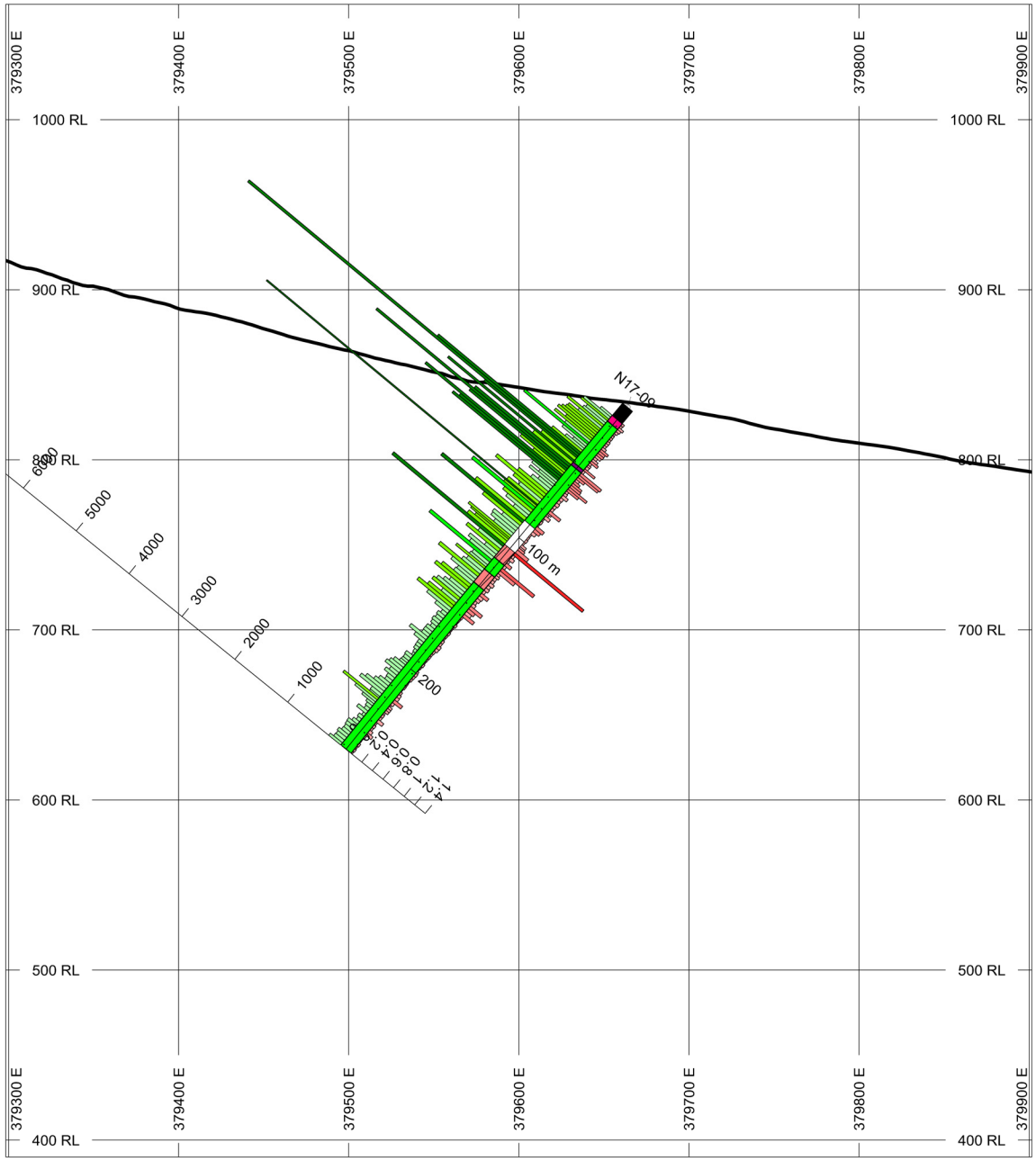
AZIMUTH = 90°

N W E S

Triumph Gold Corp.

Freegold Mountain

2017 Drilling



HOLES PLOTTED

TOTAL 1

N17-09

TOPOGRAPHY

topo.GRD

BAR GRAPHS L/R COL

Au_ppm R

1
0.5
0.1

Cu_ppm L

1500
1000
500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		GRA	Granite
		MGR	Microgranite
		NRC	No Recovery
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379600 m	6913660 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 90°

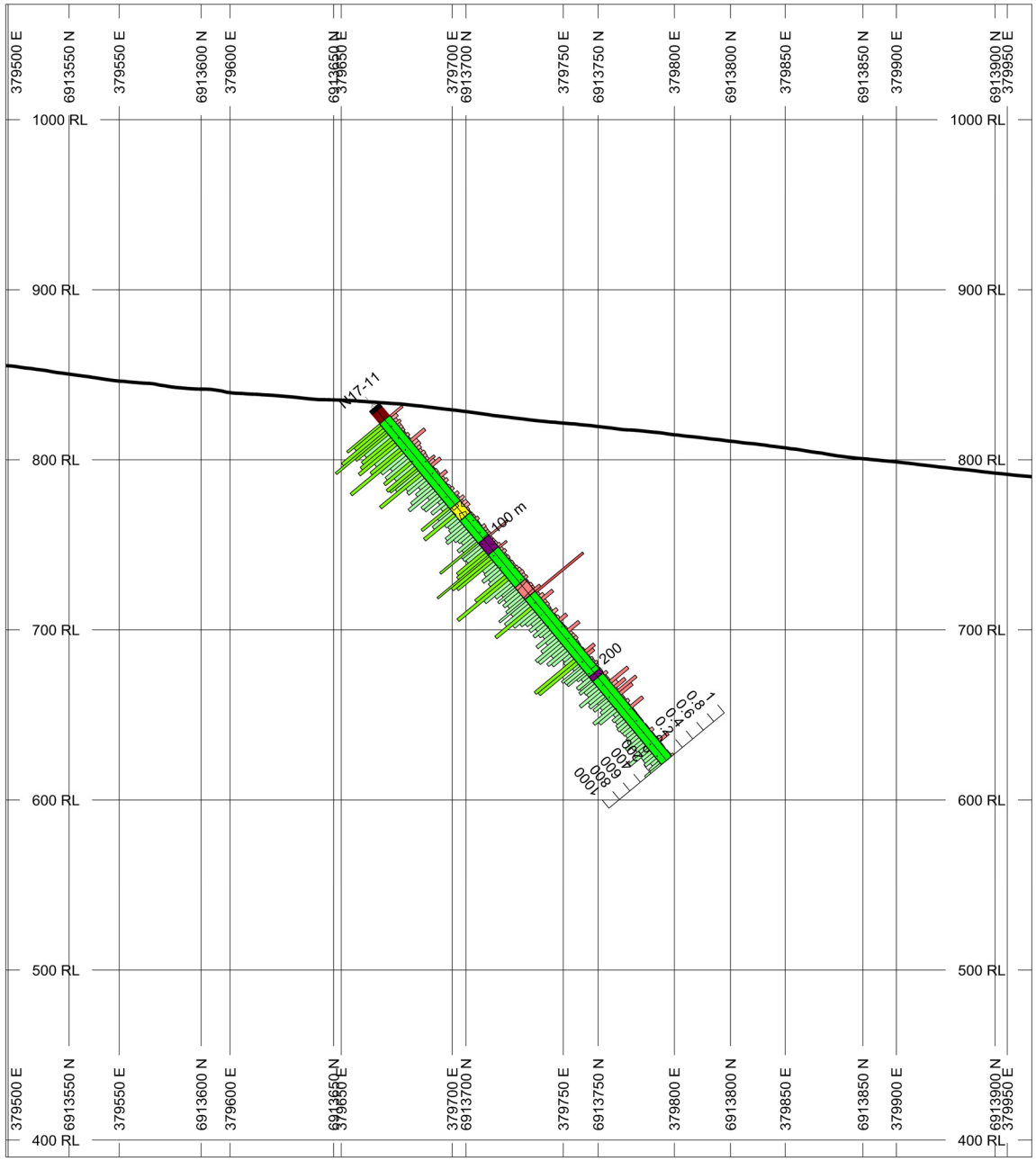
N

W E

S

Triumph Gold Corp.

6913660N SECTION



HOLES PLOTTED

TOTAL 1

N17-11

TOPOGRAPHY

topo.GRD

BAR GRAPHS L/R COL

Au_ppm R

1
0.5
0.1

Cu_ppm L

1500
1000
500

ROCK CODES Lith_Group	PAT	LABEL	DESCRIPTION
		BRX	Breccia
		GRA	Granite
		NRC	No Recovery
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	379730 m	6913720 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	1068 m	390.2 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

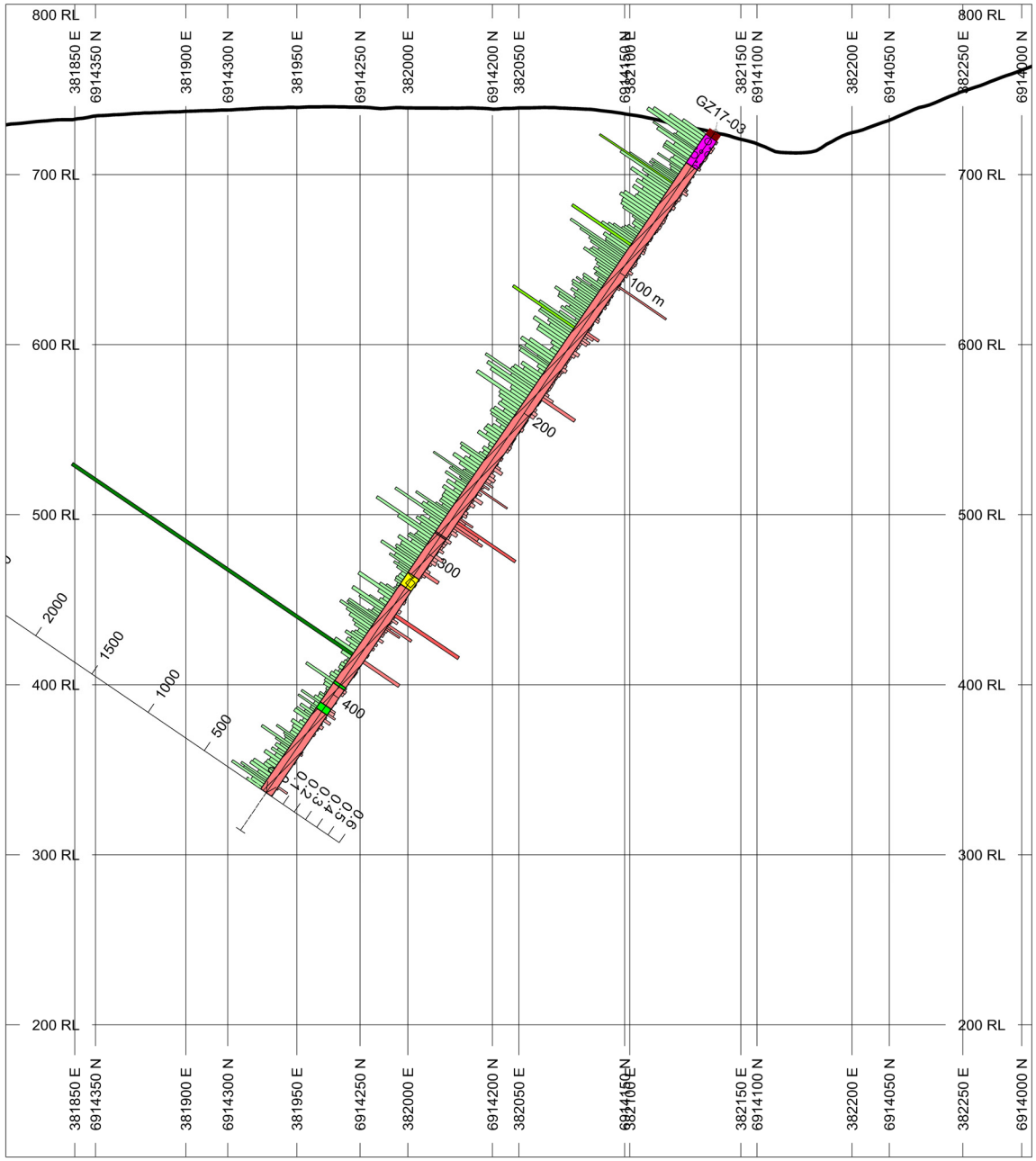
NAD83 / UTM zone 8N

AZIMUTH = 50°

N W E S

Triumph Gold Corp.

6913720N SECTION



HOLES PLOTTED

TOTAL 1

GZ17-03

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Plot	PAT	LABEL	DESCRIPTION
		APL	Aplite
		BRX	Breccia
		DIO	Diorite
		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	382050 m	6914190 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	800 m	122.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

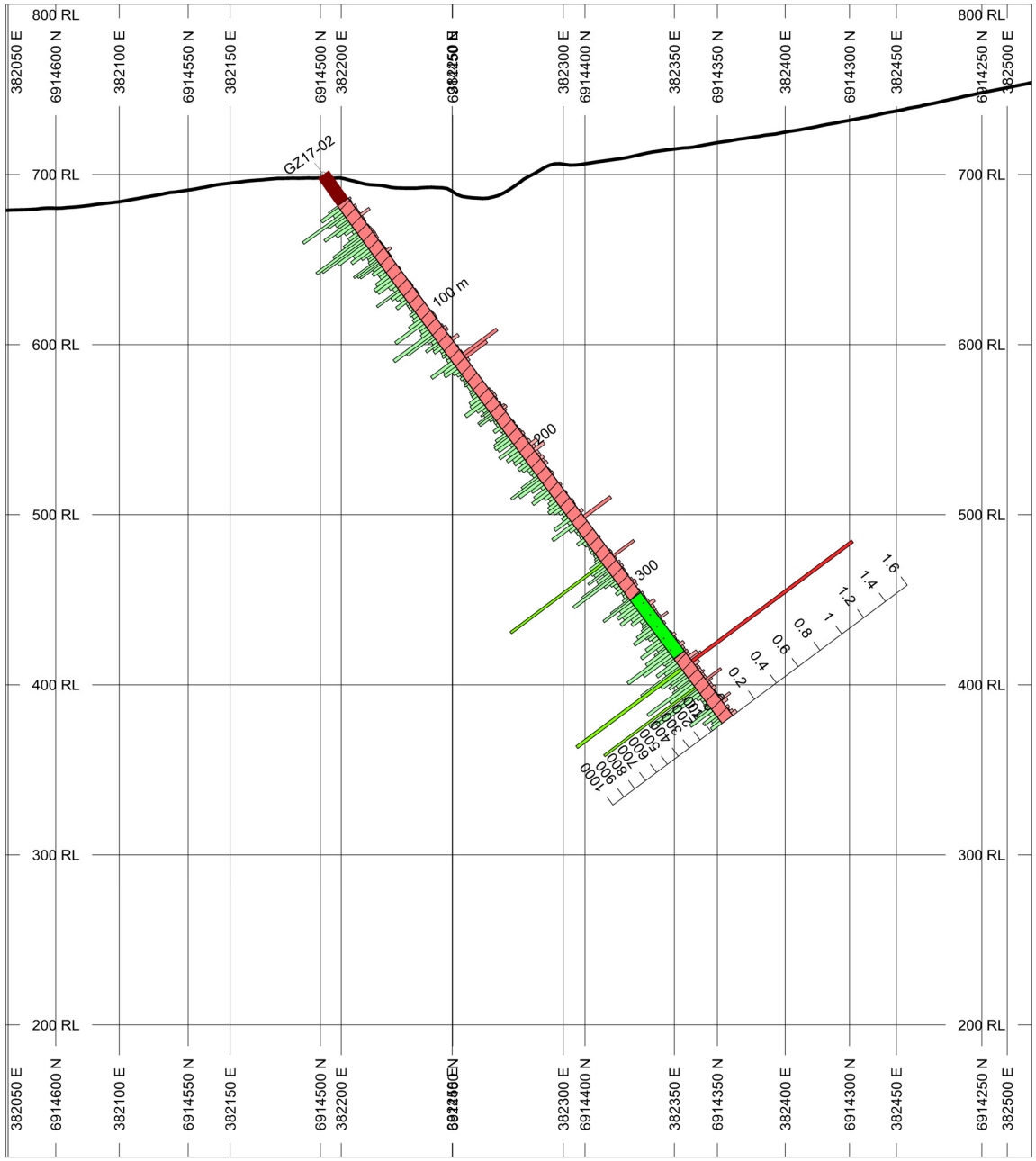
NAD83 / UTM zone 8N

AZIMUTH = 130°

N W E S

Triumph Gold Corp.

6914190N SECTION



HOLES PLOTTED

TOTAL 1

GZ17-02

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Plot	PAT	LABEL	DESCRIPTION
		GRA	Granite
		OVB	Overburden
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	382280 m	6914425 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	800 m	122.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 130°

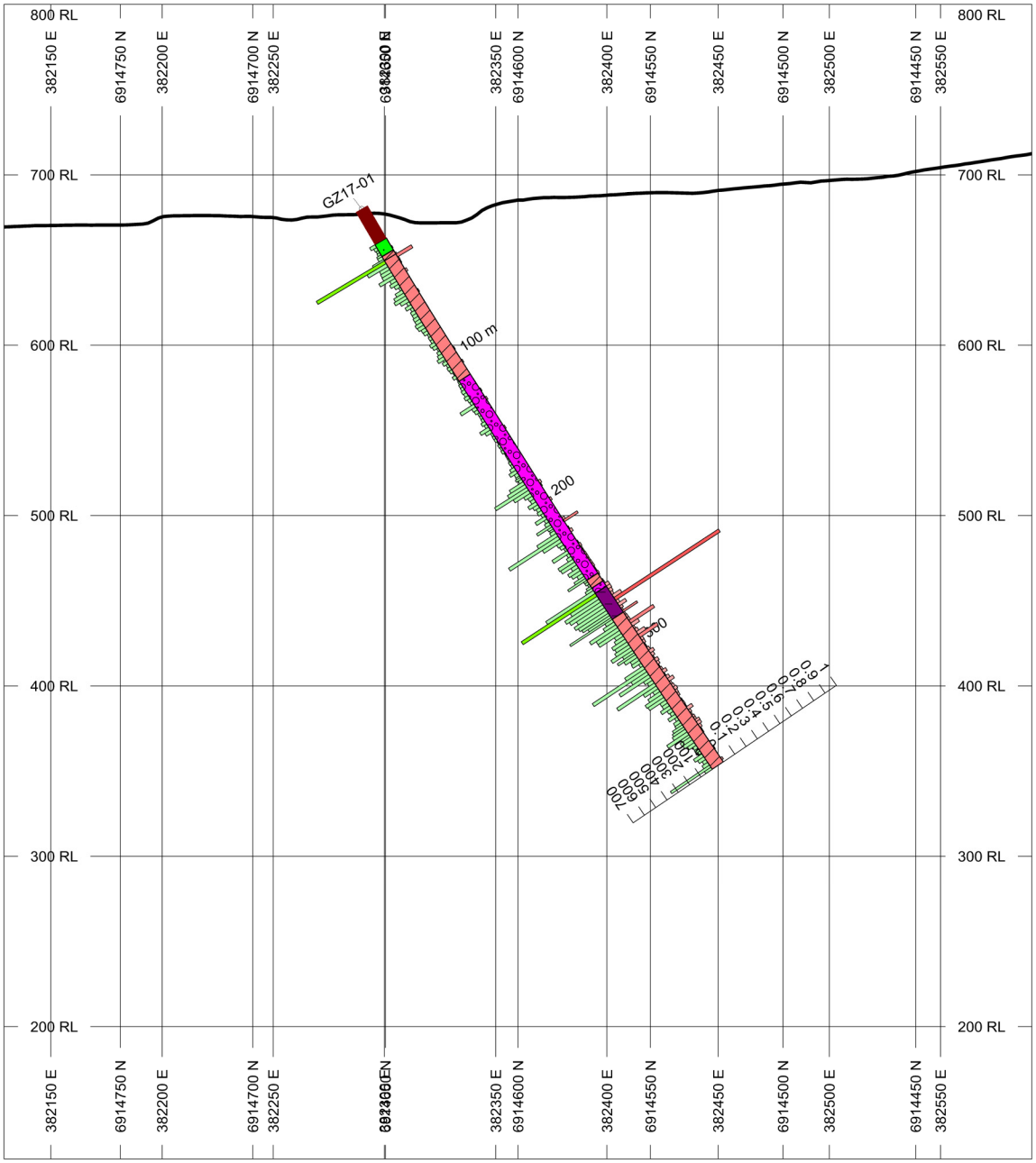
N

W E

S

Triumph Gold Corp.

6914425N SECTION



HOLES PLOTTED

TOTAL 1

GZ17-01

TOPOGRAPHY

topo.GRD

BAR GRAPHS	L/R	COL
Au_ppm	R	1
		0.5
		0.1
Cu_ppm	L	1500
		1000
		500

ROCK CODES Lith_Plot	PAT	LABEL	DESCRIPTION
		APL	Aplite
		DIO	Diorite
		GRA	Granite
		OVB	Overburden
		QFP	Quartz Feldspar Porphyry
		SCH	Schist

SECTION SPECS:

REF. PT. E, N	382360 m	6914600 m
EXTENTS	603.2 m	677.6 m
SECTION TOP, BOT	800 m	122.4 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 4000

(m)

-20 0 20 40 60 80 100 120

NAD83 / UTM zone 8N

AZIMUTH = 130°

N W E S

Triumph Gold Corp.

6914600N SECTION