

Newmont Mining Corporation



2011 Assessment Report

Rac Claims

Mayo Mining District

Yukon Territory

Latitude 63.349 and Longitude -134.126

NTS 106-D-8 and 106-C-5

January, 2012

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Acknowledgements

This report summarizes geochemical sampling work completed by several geologists during the 2011 field season. Meghan Ritchie, Dustin Chaffe, Maria Whitehead, Isaiah Jacques, and Brandon Webster all contributed to the collection of geochemical samples and worked to make this a fun and safe summer. Dave White and the Aurora Geosciences put together a great crew and provided much needed assistance in managing the logistics side of the 2011 program. Newmont and the author would like to thank all of these individuals for their hard work and diligence in completing the 2011 BLEG survey.

Summary

In January of 2011 Newmont staked 653 claims in the southern Wernecke Mountains based on existing, public domain stream sediment data. A stream sediment survey utilizing the bulk leach extractable gold technique (BLEG) was conducted in order to prioritize areas for gold exploration within this large claim block. On July 28, 2011, a crew of five samplers collected 22 BLEG samples from streams that drain the area underlain by the Rac claims. This work identified two areas with weak to moderate Au+As+Hg±Sb±Te±Tl signatures in BLEG samples.

Introduction

In order to better assess existing, low-level stream sediment geochemical anomalies, Newmont Mining Corporation collected 22 stream sediment samples with the intent of using these samples to focus further exploration on the Rac claims. Though this work was completed in one day, the results provide critical information that will allow for additional confidence in future decisions regarding further work on the property.

Reliance on other Experts

No other experts were relied on for the creation of this report.

Property Description and Location

The Rac property is located at 63.349° N latitude and -134.126° W longitude, approximately 120 kilometers northeast of Mayo (Figure 1). The property consists of 653 quartz mining claims (Map 1), which are located along the south flank of the Wernecke Mountains just south of the Peel River watershed.

Accessibility, Local Resources, Infrastructure, Physiography

The claims are accessible via helicopter. The claims are located approximately 25 kilometers east of a winter road that begins north of Mayo. Local infrastructure consists of the winter road and short runway approximately 9 kilometers south of the claims near Kathleen Lakes that is used as an outfitters camp (64.236°N lat., -134.256° W long.).

The Rac claims are located in the Wernecke Mountains, which are steep and rugged in nature. Peaks in the area rise up to nearly 2,000 meters elevation (MSL) and there is over 1 km of relief. Outcrop occurs predominantly along the ridgelines whereas talus is predominant on most slopes. Although most of the claim block is above the tree line, there are areas of small trees and brush developed along streams and at the lower elevations.

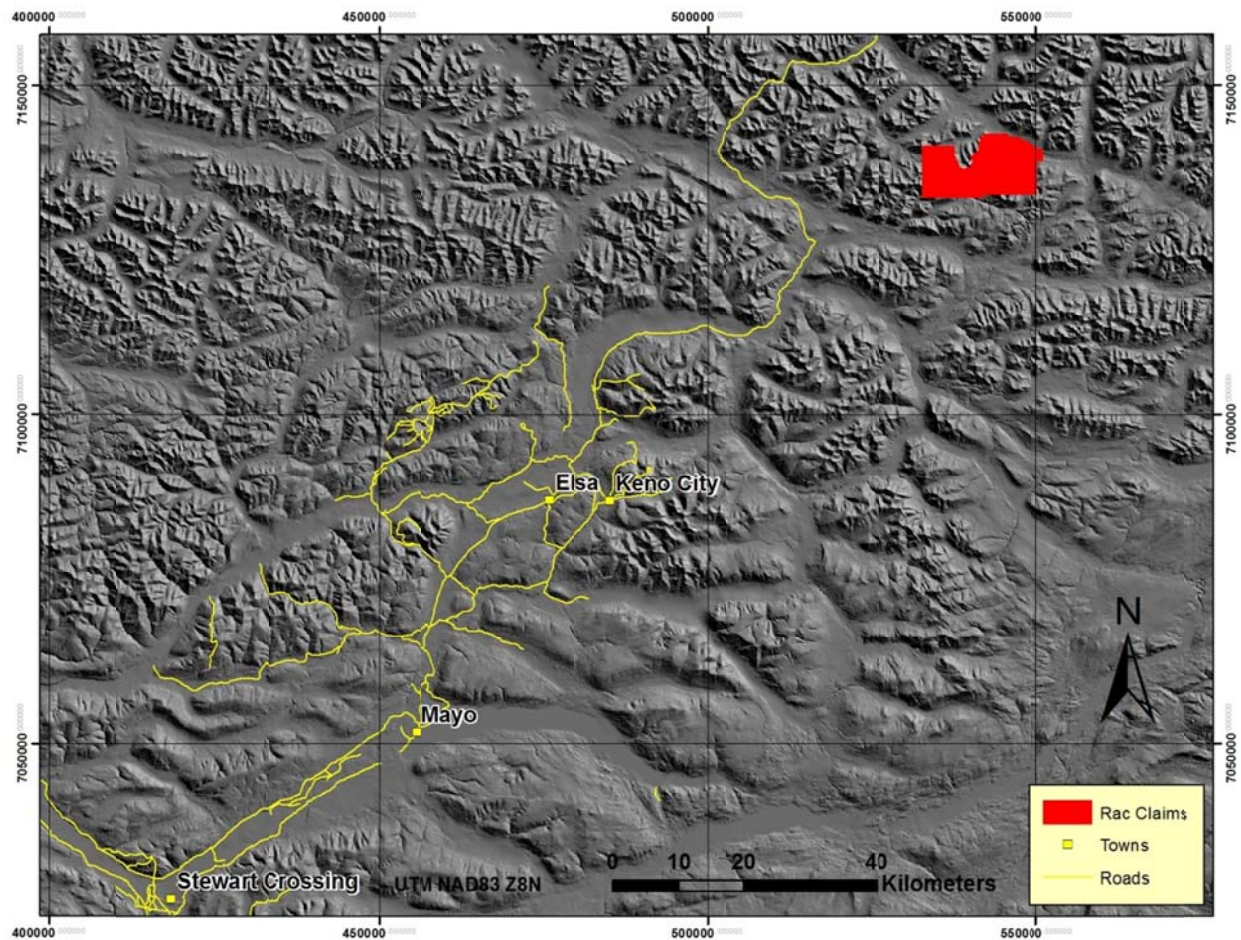


Figure 1. Location of Rac claims with respect to nearby towns and roads on a DEM base map.

Property History

Previous Work

The only known previous exploration work in the area consists of moderate to low density stream sediment sampling conducted as a part of government surveys. These public domain datasets were used in the initial area selection through which the Rac claims were staked.

2011 Exploration Program

In 2011 a five person crew spent one day conducting stream sediment sampling on the Rac claims. The goal of this work was to better focus additional exploration on this large claim block and to allow us to drop any claims that drain areas with poor geochemical signature. A total of 22 stream sediment samples were collected (Figure 2).

Fig

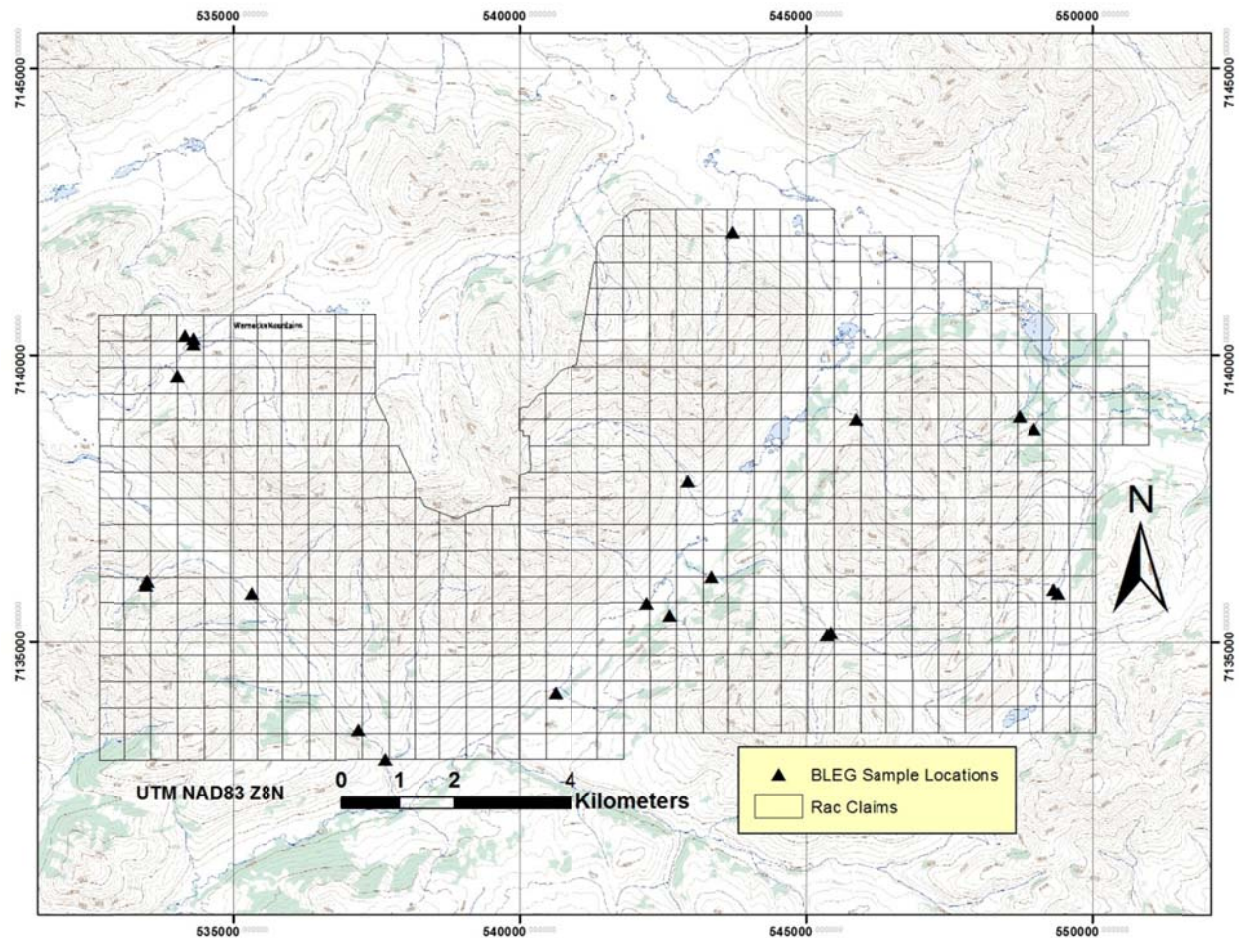


Figure 2. Location of BLEG samples collected in 2011.

Regional Geology

The Rac property is underlain largely by sedimentary rocks ascribed to the Wernecke Supergroup (>1.71 Ga) and the Pinguicula Group (~ 1.38 Ga). The Wernecke Supergroup comprises a ~ 13 km thick succession of moderately to strongly deformed Paleoproterozoic sedimentary rocks subdivided into three groups: the lowermost Fairchild Lake, middle Quartet, and uppermost Gillespie Lake. Together, these groups define two major clastic-to-carbonate super-cycles and therefore, two basin subsidence events (Thorkelson et al., 2005). Unconformably overlying rocks of the Wernecke Supergroup are those of the Mesoproterozoic Pinguicula Group, which contains marine coarse clastic and carbonate sedimentary rocks interleaved with mafic to intermediate volcanics and intruded by compositionally similar sills. Rocks of both the Wernecke Supergroup and Pinguicula Group comprise the basement to latest Proterozoic and Paleozoic (800-360 Ma) shale and lesser clastics and carbonates of the Selwyn Basin.

The Rac property lies along the northern edge of the Selwyn Basin, a Late Proterozoic to Middle Paleozoic passive margin basin characterized by the deposition of thick shale-chert sequences along with coarser grained siliciclastic and lesser carbonate rocks. The Selwyn Basin refers to the deeper-water

or shale-dominant facies of the Cordilleran miogeocline in eastern Yukon, in contrast to the platformal carbonate and siliciclastic rocks that typify the inner or shallower-water facies to the east. Rocks of the Selwyn Basin are subdivided into three major stratigraphic groups: the lowermost Highland Group (Neoproterozoic), middle Road River Group (Ordovician through Silurian), and uppermost and tectonically transitional Earn Group (Devonian to Mississippian). Although rocks of Selwyn Basin affinity are not mapped within the property, they surround it and almost certainly once overlaid Proterozoic rocks there.

In the Triassic, the sedimentary rocks were intruded by hornblende diorite and hornblende-quartz diorite sills and dikes (Roots, 1990a). This was followed by much more voluminous intrusion during the Cretaceous (~112-88Ma), wherein calc-alkalic, intermediate to felsic plutons, stocks, and dikes of the Anvil (112-110 Ma), Tay River (98-96 Ma), Tungsten (97-92 Ma), and Tombstone (94-90 Ma) suites were emplaced.

Paleozoic and older rocks in the area of the Rac claims are strongly affected by one or more episodes of deformation. In particular, the Wernecke Supergroup rocks possess a penetrative foliation developed during greenschist grade metamorphism prior to 1.6 Ga, part of the Racklan Orogeny (Thorkelson et al., 2005). More recent Mesozoic contractional deformation associated with Cordilleran orogenesis occurred prior to emplacement of the Cretaceous intrusions. . Widespread deformation in the form of both folds and thrust faults has resulted in significant structural thickening of the Selwyn Basin and its underlying basement. The folds can have open to tight inter-limb angles and are both upright and overturned. The thrust faults occur as singular planes, imbricate splays, and duplexes. In general, the leading edge of the fold and thrust belt is dominated by folds whereas areas with greater contraction are typified by thickening of the stratigraphic sequence through thrust repetition. The current orientations of the fold axes and the thrust faults form a regional, arcuate pattern with a strong east-west structural grain in the northern margin near the Rac claims, which then curves to roughly north-south on the southeast along the border with the Northwest Territories.

More recent deformation developed since the late Cretaceous is associated with large-scale, dextral movement on regional west-northwest-striking faults. Individual faults record 10s to 100s of kms of dextral offset. The Tintina fault has one of the largest offsets (~450 km) and has separated the main body of the Selwyn Basin in Yukon from its western counterpart now in eastern Alaska.

Regional Mineralization

Several types of mineralization are described in the Selwyn Basin reflecting its complex geologic history that includes long-lived Precambrian through Paleozoic sedimentary basin development, late Paleozoic and Mesozoic orogenesis, and voluminous Cretaceous arc magmatism. Examples of diverse styles of mineralization include sedimentary exhalative Pb-Zn (sedex), volcanogenic massive sulfide Cu-Au-Ag-Pb-Zn (VMS), tungsten skarn, polymetallic veins, hornfels- and skarn-hosted Au, and Carlin-type replacement Au. In addition, widespread iron oxide-copper-gold (IOCG) deposits are described in Paleoproterozoic rocks of the Wernecke Mountains just north of the Rac property. The sedex deposits include Faro, Howard's Pass, Tom, and Jason deposits, which cover a range of ages from Late Cambrian to Late Devonian. Examples of VMS deposits are: Marg, Wolverine, Kudzu, and Frye Lake which

formed from the Devonian through Carboniferous. Both the SEDEX and VMS deposits are related to local areas of extension or high heat flow within the Selwyn basin during passive margin sedimentation or during subsequent rifting in the late Paleozoic.

A variety of metals including tungsten (e.g., Mactung and Cantung), silver (e.g., Plata), and gold (e.g., Scheelite Dome and Brewery Creek) are genetically associated with chemically reduced Cretaceous intrusions in the Selwyn Basin (e.g., Hart, 2007). Other Cretaceous intrusion-related deposits include Au⁺/₋Cu skarn deposits (e.g., Mike Lake), Au-bearing replacement deposits (e.g., Rau), and possibly, Carlin-type replacement Au (e.g., Osiris). The Selwyn Basin has been compared to Nevada for its potential to host Carlin-type gold deposits. The basin shares many geologic characteristics with eastern and central Nevada, including its Paleozoic tectono-stratigraphic setting, its structural complexity, and its widespread arc-type magmatism that post-dates major contractional deformation. Based on these and other similarities, the focus of this exploration program is to identify targets with Carlin-type characteristics. The recent discovery of Carlin-type mineralization at Osiris along with the previous discovery of Carlin-type mineralization near MacMillan Pass (Hulstein and Keyser, 1988) validates the premise that Carlin-type deposits do occur in the Selwyn basin. The staking and work at the Rac claims is predicated on the idea that Carlin-type mineralization is not completely dependent on host rock and as such, mineralization may occur marginal to the Selwyn Basin in what would typically be considered less prospective host rocks.

Property Geology

This sampling program focused on the collection of stream sediment samples and as such little time was spent assessing the geologic tenor of the property. All of our current knowledge of the geology on the Rac claims is based on historical work by Roots, (1990a and 1990b), Blusson, 1974, and Green and Roddick (1972).

The Rac claims are underlain by a thick sequence of Middle Proterozoic sedimentary rocks belonging to the Quartet, Gillespie Lake, and Pinguicula Groups. The Quartet and Gillespie Lake Groups belong to the Wernecke Supergroup and predate the 1.7 Ga Bonnet Plume intrusions. Rocks of the Pinguicula Group unconformably overlie those of the Wernecke Supergroup and have been constrained at ~1.38 Ga based on their relationships to the Hart River sills. These sequences were intruded by Triassic hornblende diorite and quartz hornblende diorite dikes and sills. Subsequent northeast-southwest direct compression resulted in northwest-southeast trending folds along with southeast striking, southwest dipping thrust faults which have repeated stratigraphic section and suggest north-northeast directed vergence during contraction.

The following is a tectono-stratigraphic column from Roots (1990a) for the geology of the Rac claims. The tectono-stratigraphic column accompanies the geologic map shown as Figure 3.

Triassic (may include older intrusions)

Trd – Fine- to medium-grained hornblende diorite sills and dikes.

Trdq – Medium- to coarse-grained hornblende quartz diorite.

Middle Proterozoic

Stratigraphically equivalent to the Pinguicula Group but no lithologic similarities

Pp – Undivided (includes one or more rock types below).

Pp4 – Grey and brown siltstone, dark grey fissile mudstone; ‘oooooo’ conglomerate with quartz, plutonic and shale pebbles, arkose at base.

Ppv – Volcanic breccia and conglomerate, mafic tuff.

Pp3 – Pink-weathering, poorly bedded dolostone; ‘tungusoid’, fine laminated stromatolites diagnostic.

Pp2 – Brown, fine-grained sandstone, thin-bedded.

Pp1 – Dark grey siliceous siltstone at base, dark brown, fissile mudstone; minor thin beds of dark brown weathering dolostone.

Gillespie Lake Group

Pg – Undifferentiated divisions (not visited)

Pg2 – Upper division: Orange-brown weathering, thick-bedded dolostone, with columnar stromatolites; interbedded fine sandstone and dark grey cherty mudstone; orange-weathering dolomitic limestone in southeast.

Pgv – Chloritized schist, formerly mafic flow and tuff deposit.

Pg1 – Lower division: Dark and light brown-weathering, thin- to medium-bedded dolostone, locally cyclic from dolo-siltstone to mudstone.

Quartet Group (Wernecke Supergroup)

Pq – Dark grey or green-grey weathering quartz siltstone, typically with white alteration along bedding planes; slaty cleavage.

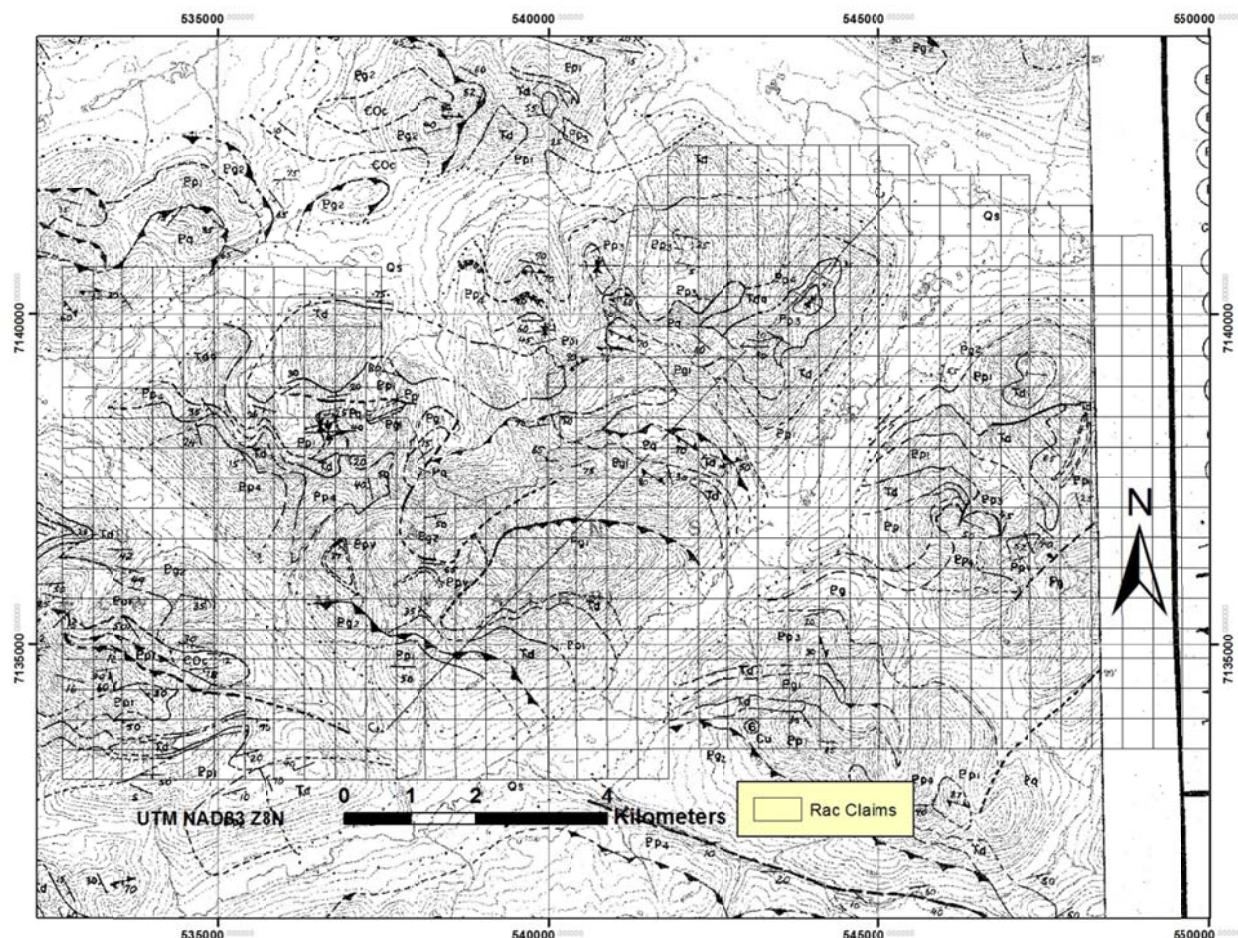


Figure 3. Roots (1990a) geologic map in the Rac claims area.

Property Mineralization

Regional stream sediment sampling conducted by the Yukon Geological Survey identified a weak As, Cu, Hg, and Sb anomaly in the area. This anomalism was the basis for staking the Rac claims. To date, the only mineralization documented on the Rac claims is from work completed by Roots (1990). Notes from that work indicate that chalcopyrite in a 1 meter wide quartz vein was encountered. The vein is hosted in thin bedded, oxidized siltstone of the Pinguicula Group.

Geochemistry

In 2011, one day (7/28) was spent collecting BLEG (bulk leach extractable gold) samples from the streams draining Newmont's Rac claims. The intent of this survey was to determine which if any drainages had anomalous gold and/or pathfinder elements and then rank those basins for follow-up based on their geochemical signature. A total of 22 samples were collected from drainage basins within the Rac claims.

Sample Collection, Processing, and Assaying

Approximately 5 kilograms of sediment were collected from 10 to 20 sediment sites. This sediment was then passed through a -30 mesh sieve to remove the coarse fraction. Flocculent was then added to the sediment plus water mixture in order to drop any clay-sized particles out of the water and concentrate them at the bottom of the sample collection bucket. The water was then decanted and the remaining sediment plus water mixture was poured into a microporous bag. Samples were flown to Whitehorse every week where they were laid out to dry in an Aurora Geosciences warehouse.

Once the samples dried they were shipped to Newmont's exploration office in Denver, Colorado. At that time, they were crushed and a 500 gram split was taken from the sample. The 500 gram samples were then shipped to Ultra Trace Pty Ltd's (Bureau Veritas) laboratory in Canning Vale, Australia.

The samples were processed using a cyanide digestion and then analyzed for Au, Ag, Cu, Cd, Mo, Fe, and Hg using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) while S was assayed for using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES). A second set of analyses were completed using an aqua regia digestion and were analyzed for As, Bi, Cu, Hg, In, Mo, Ni, Pb, Sb, Te, Tl, U, W, Y, and Zn using an ICP-MS and Ca, Fe, Mn, and Ba using ICP-OES. The detection limit for each element is shown in Table 1.

Cyanide Digestion			Aqua Regia Digestion					
Element	Detection Limit	Units	Element	Detection Limit	Units	Element	Detection Limit	Units
Ag	0.1	ppb	As	0.2	ppm	Mo	0.1	ppm
Au	0.01	ppb	Ba	1	ppm	Ni	1	ppm
Cd	1	ppb	Bi	0.02	ppm	Pb	1	ppm
Cu	0.01	ppm	Ca	0.01	percent	Sb	0.02	ppm
Fe	0.5	ppm	Cu	0.5	ppm	Te	0.02	ppm
Hg	0.5	ppb	Fe	0.01	percent	Tl	0.01	ppm
Mo	0.01	ppm	Hg	10	ppb	U	0.01	ppm
S	2	mg/L	In	0.005	ppm	W	1	ppm
			Mn	1	ppm	Y	0.01	ppm
						Zn	1	ppm

Table 1. Elemental detection limits for BLEG samples.

BLEG Geochemistry

Results for all of the BLEG samples are provided in Appendix D. Results for As, Au, Hg, Sb, Te, and Tl are shown below in Figures 4, 5, 6, 7, 8, and 9 respectively. The results show weak to moderate Au+As+Hg±Sb±Te±Tl signatures in two areas. The eastern area (UTM WGS84: 546420E, 7138053N) consists of a one basin anomaly with a gold value of 5.04 ppb and elevated arsenic. The western area (UTM WGS84: 534376E, 7138332N) has a 5.92 ppb gold anomaly with elevated Hg in the same basin and adjacent basins. Elevated antimony is also found in the adjacent basins.

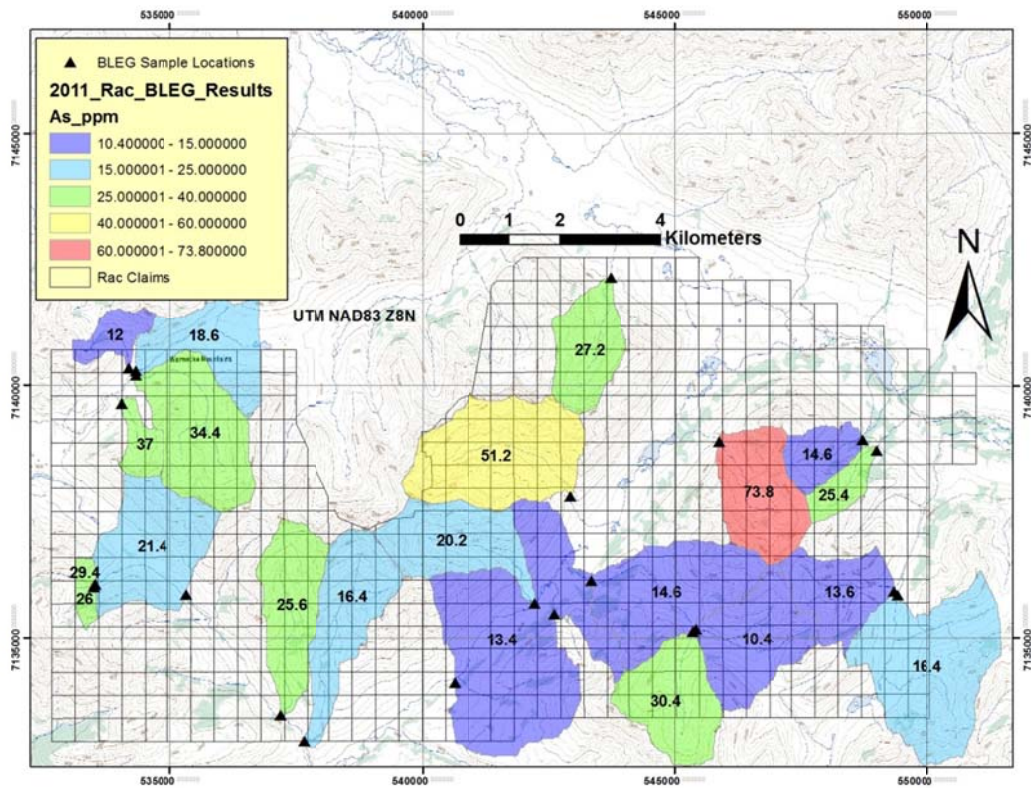


Figure 4. Arsenic (ppm) in BLEG samples.

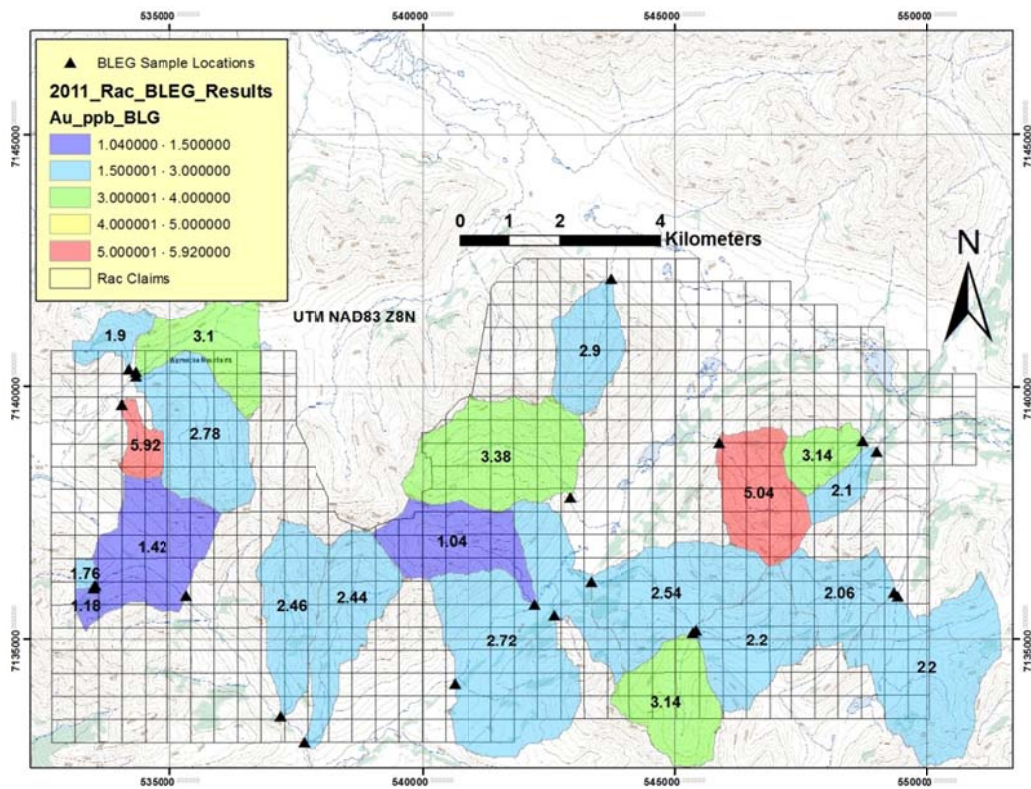


Figure 5. Gold (ppb) in BLEG samples.

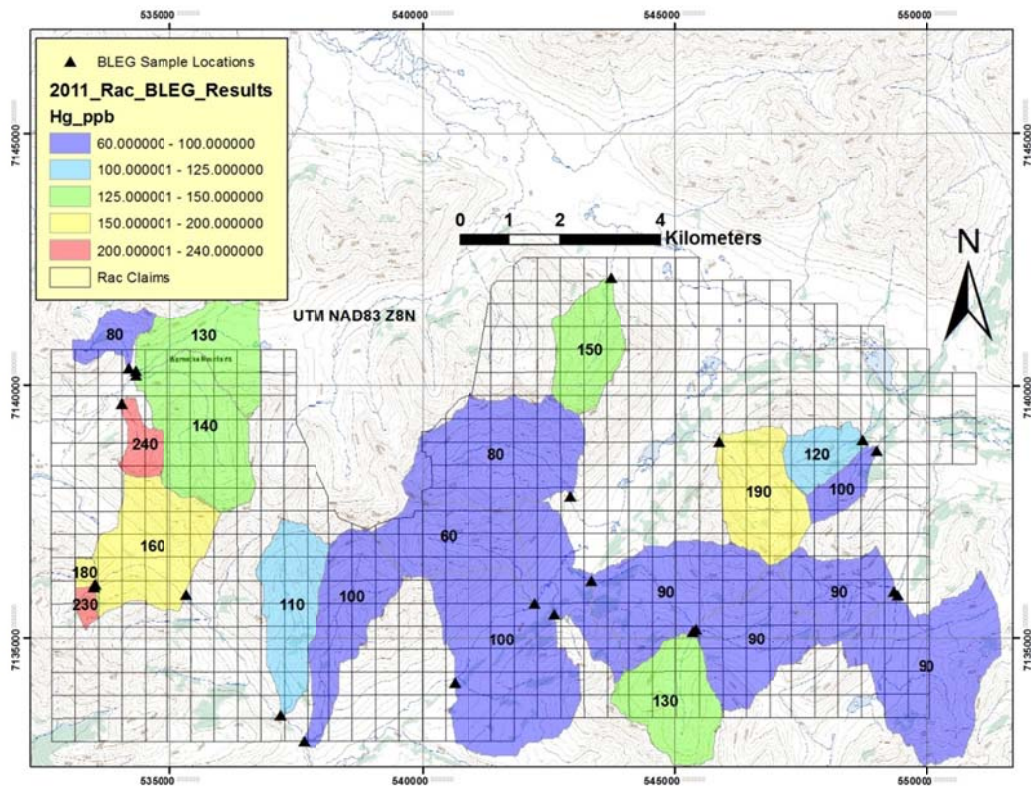


Figure 6. Mercury (ppb) in BLEG samples.

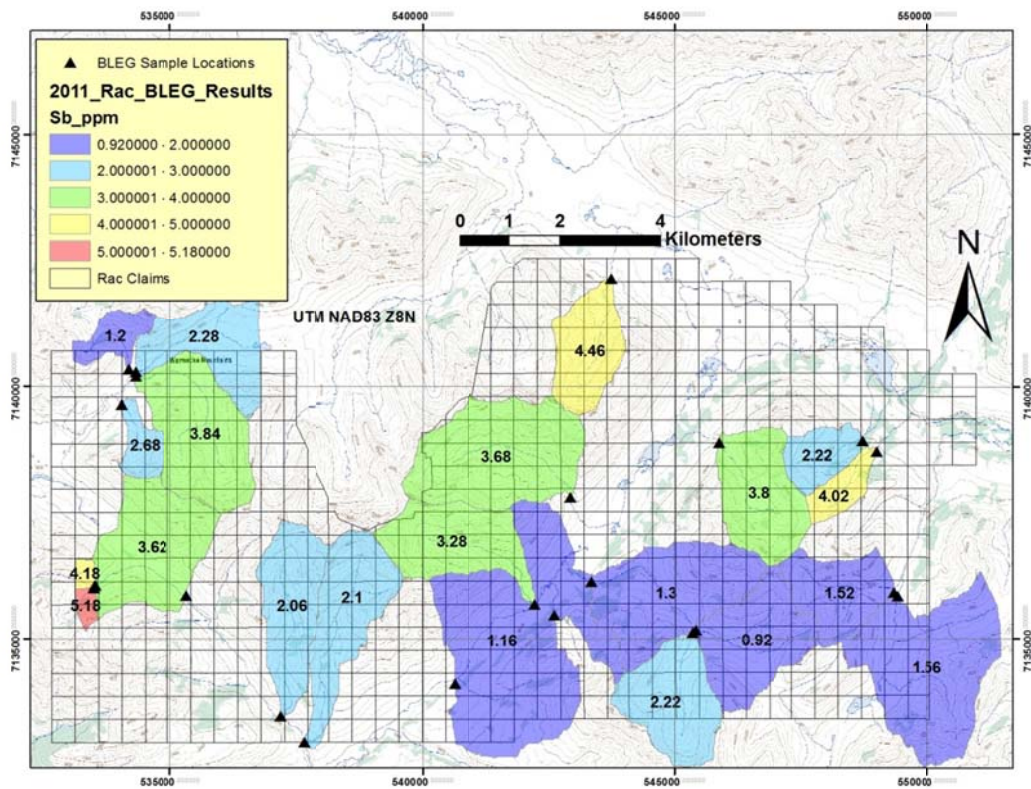


Figure 7. Antimony (ppm) in BLEG samples.

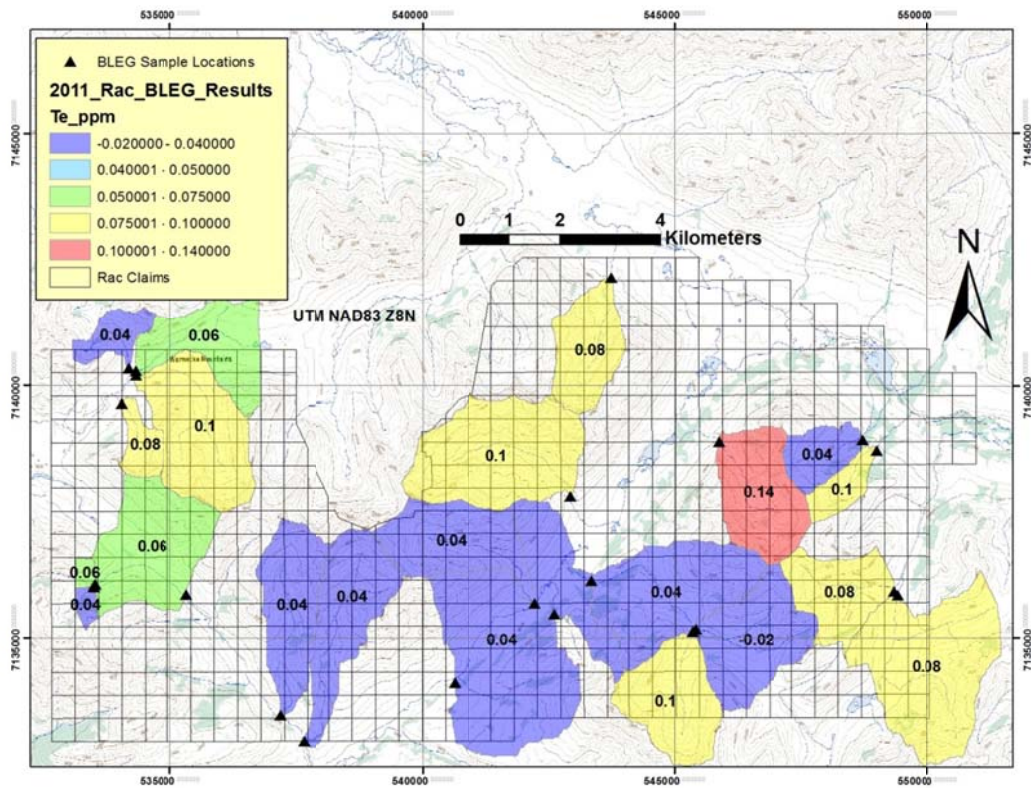


Figure 8. Tellurium (ppm) in BLEG samples.

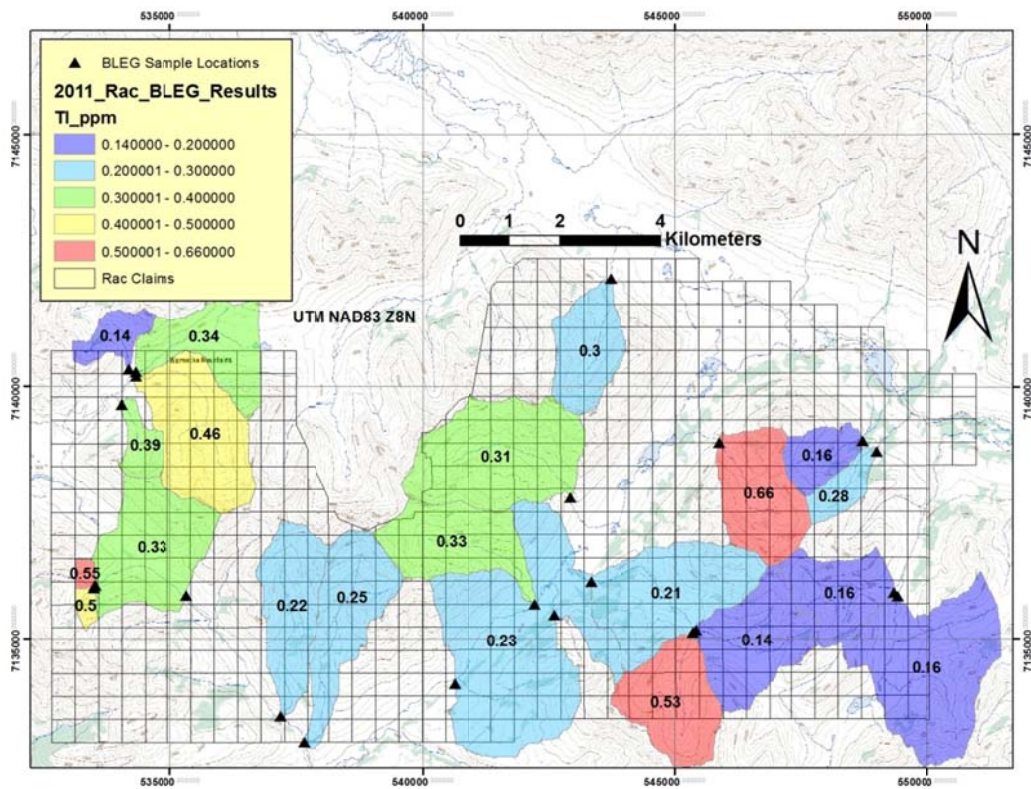


Figure 9. Thallium (ppm) in BLEG samples.

Conclusions and Recommendations

Based on the results summarized above, a recommendation is made to follow up areas of anomalous stream sediment samples with a program of systematic ridge and spur soil sampling, rock-chip sampling, and reconnaissance geologic mapping.

Appendix A: Bibliography

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Appendix B: Claim Data

GrantNumber	ClaimName	ClaimNbr	ClaimExpiryDate	Renewal Period requested	NTS MapNumber
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YD74031	Rac	2	2012-02-11	2012-04-30	106D08
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YD127796	Rac	4	2012-02-11	2012-04-30	106D08
YD127797	Rac	5	2012-02-11	2012-04-30	106D08
YD127798	Rac	6	2012-02-11	2012-04-30	106D08
YD127799	Rac	7	2012-02-11	2012-04-30	106D08
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YD120118	Rac	155	2012-01-31	2012-04-30	106D08
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YD152014	Rac	246	2012-01-31	2012-04-30	106D08
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YD152016	Rac	248	2012-01-31	2012-04-30	106D08
YD152017	Rac	249	2012-01-31	2012-04-30	106D08
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YD152135	Rac	367	2012-01-31	2012-04-30	106D08
YD152136	Rac	368	2012-01-31	2012-04-30	106D08

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YD152182	Rac	414	2012-02-11	2012-04-30	106D08

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YD152219	Rac	451	2012-01-31	2012-04-30	106D08
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YD152222	Rac	454	2012-01-31	2012-04-30	106D08
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YD152270	Rac	502	2012-01-31	2012-04-30	106D08
YD152271	Rac	503	2012-01-31	2012-04-30	106D08
YD152272	Rac	504	2012-01-31	2012-04-30	106D08
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YD152274	Rac	506	2012-01-31	2012-04-30	106D08

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YD152284	Rac	516	2012-01-31	2012-04-30	106D08
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YD152290	Rac	522	2012-02-11	2012-04-30	106D08
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YD152299	Rac	531	2012-02-11	2012-04-30	106D08
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YD152301	Rac	533	2012-02-11	2012-04-30	106D08
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YD152320	Rac	552	2012-02-11	2012-04-30	106D08

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YD152336	Rac	568	2012-01-31	2012-04-30	106D08
YD152337	Rac	569	2012-01-31	2012-04-30	106D08
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YD152349	Rac	581	2012-01-31	2012-04-30	106C05
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YD152364	Rac	596	2012-02-11	2012-04-30	106C05
YD152365	Rac	597	2012-02-11	2012-04-30	106C05
YD152366	Rac	598	2012-02-11	2012-04-30	106C05

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YD152370	Rac	602	2012-02-11	2012-04-30	106C05
YD152371	Rac	603	2012-02-11	2012-04-30	106C05
YD152372	Rac	604	2012-02-11	2012-04-30	106C05
YD152373	Rac	605	2012-02-11	2012-04-30	106C05
YD152374	Rac	606	2012-02-11	2012-04-30	106C05
YD152375	Rac	607	2012-02-11	2012-04-30	106C05
YD152376	Rac	608	2012-02-11	2012-04-30	106C05
YD152377	Rac	609	2012-01-31	2012-04-30	106C05
YD152378	Rac	610	2012-01-31	2012-04-30	106C05
YD152379	Rac	611	2012-01-31	2012-04-30	106C05
YD152380	Rac	612	2012-01-31	2012-04-30	106C05
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YD152382	Rac	614	2012-01-31	2012-04-30	106C05
YD152383	Rac	615	2012-01-31	2012-04-30	106C05
YD152384	Rac	616	2012-01-31	2012-04-30	106C05
YD152385	Rac	617	2012-01-31	2012-04-30	106C05
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YD152390	Rac	622	2012-01-31	2012-04-30	106C05
YD152391	Rac	623	2012-01-31	2012-04-30	106C05
YD152392	Rac	624	2012-01-31	2012-04-30	106C05
YD152393	Rac	625	2012-01-31	2012-04-30	106C05
YD152394	Rac	626	2012-01-31	2012-04-30	106C05
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YD152396	Rac	628	2012-01-31	2012-04-30	106C05
YD152397	Rac	629	2012-01-31	2012-04-30	106C05
YD152398	Rac	630	2012-01-31	2012-04-30	106C05
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YD152412	Rac	644	2012-01-31	2012-04-30	106C05

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YD152419	Rac	651	2012-02-11	2012-04-30	106D08
YD152420	Rac	652	2012-02-11	2012-04-30	106D08
YD152421	Rac	653	2012-02-11	2012-04-30	106D08

Appendix C: Statement of Expenditures

**Statement of Work,
Newmont Rac Claims - 2011**

Expenses		Cost
Room and Board		
	6 person nights at \$204.79 per night	1,229
Helicopter Charters		
	\$2780 per day + \$609.25 per hour	
	1 day and 7.4 hours	7,289
Helicopter Fuel	Bulk fuel delivered at \$2.05 per liter	
	1265.4 liters	2,594
Labor - Lead Geologist	\$767.97 per day (1 day)	768
Labor - Lead Geologist	Report preparation \$767.97 per day (2 days)	1,536
Labor - Samplers (4 people)	\$500.00 per day (4 days)	2,000
Geochemical Analysis	\$76.80 per sample for processing and	
	analysis, 22 samples	1,690
Total		\$17,105

Appendix D: Sample Descriptions and Results

Sample_ID	Easting_UTM_Z8N_ NAD83	Northing_UTM_Z8N_NAD8 3	Date	Time	Sampler	Flood_Channel_m	Current_Channel_m
NDD15684	534307	7140200	7/28/2011	11:48 am	BW	8	2.0
NDD15685	534309	7140296	7/28/2011	12:12 pm	BW	8	1.0
NDD15686	534167	7140346	7/28/2011	12:37 pm	BW	3	1.0
NDD15687	535318	7135865	7/28/2011	01:11 pm	BW	12	3.0
NDD15688	537634	7132956	7/28/2011	01:55 pm	BW	6	2.0
NDD15689	542211	7135692	7/28/2011	03:44 pm	BW	4	1.0
NDD15690	545347	7135132	7/28/2011	04:37 pm	BW	20	1.0
NDD15690rpt	545345	7135132	7/28/2011	04:37 pm	BW	20	1.0
NDD15691	545415	7135179	7/28/2011	04:48 pm	BW	15	1.0
NDD15693	545858	7138898	7/28/2011	07:34 pm	BW	12	3.0
NDD16542	540620	7134112	7/28/2011	04:00 pm	MW	2	0.8
NDD16543	542917	7137810	7/28/2011	05:10 pm	MW	8	4.0
NDD17014	534033	7139651	7/28/2011	11:47 am	DC	3	1.0
NDD17015	533514	7136067	7/28/2011	12:44 pm	DC	4	1.0
NDD17016	533488	7136011	7/28/2011	01:09 pm	DC	5	1.0
NDD17017	537169	7133472	7/28/2011	01:54 pm	DC	3	1.0
NDD17019	549325	7135923	7/28/2011	05:09 pm	DC	3	1.0
NDD17020	549397	7135853	7/28/2011	05:27 pm	DC	4	1.0
NDD17021	548983	7138725	7/28/2011	06:42 pm	DC	4	1.0
NDD17453	543722	7142151	7/28/2011	02:42 pm	MR	8	6.0
NDD17455	543328	7136145	7/28/2011	04:44 pm	MR	6	5.0
NDD17457	548709	7138941	7/28/2011	06:43 pm	MR	5	2.0

Sample_ID	Water_Depth_m	Water_Depth_Max_m	Slope	Discharge	Stream_Flow_Direction	Lithology1	Pct_Outcrop	Pct_Float
NDD15684	0.3	0.5	low	med	Northwest	volcanic	0	60
NDD15685	0.5	0.7	low	low	Southwest	volcanic	0	60
NDD15686	0.3	0.5	low	med	South	volcanic	0	70
NDD15687	0.3	0.6	low	med	Southeast	volcanic	0	90
NDD15688	0.3	0.4	med	high	West	intrusive	0	55
NDD15689	0.3	0.4	high	high	Southeast	volcanic	0	80
NDD15690	0.6	1.0	med	high	North	sedimentary	0	75
NDD15690rpt	0.6	1.0	Med	High	North	sedimentary	0	75
NDD15691	0.5	0.5	low	med	West	till	0	100
NDD15693	0.2	0.4	high	high	Southwest	intrusive	0	25
NDD16542	0.2	0.5	med	med	North	granodiorite	0	40
NDD16543	0.3	0.9	med	high	Southeast	metasedimentary	0	60
NDD17014	0.2	0.4	low	low	West	intrusives	0	100
NDD17015	0.3	0.5	low	low	Southeast	conglomerate	0	10
NDD17016	0.2	0.4	low	low	Northwest	metasedimentary rock w quartz	0	70
NDD17017	0.3	0.5	low	low	Southeast	intrusives	0	50
NDD17019	0.2	0.4	low	low	Northeast	sedimentary	0	40
NDD17020	0.3	0.6	low	low	Northeast	metasedimentary	0	50
NDD17021	0.1	0.3	low	low	Northeast	volcanic	0	50
NDD17453	0.2	0.5	med	med	North	granodiorite boulders	0	50
NDD17455	0.2	0.4	low	med	Northwest	dioritic intrusive - quartz veining	75	0
NDD17457	0.2	0.4	med	med	Northeast	granodiorite	0	90

Sample_ID	Lithology2	Pct_Outcrop 2	Pct_Float 2	Lithology3	Pct_Outcrop 3	Pct_Float 3	Mes h	Type
NDD15684	intrusive	0	40		0	0	-30	Wet
NDD15685	intrusive	0	40		0	0	-30	Wet
NDD15686	intrusive	0	20	sedimentary	0	10	-30	Wet
NDD15687	other	0	10		0	0	-30	Wet
NDD15688	volcanic	0	45		0	0	-30	Wet
NDD15689	sedimentary	0	20		0	0	-30	Wet
NDD15690	volcanic	0	25		0	0	-30	Wet
NDD15690rpt	volcanic	0	25		0	0	-30	Wet
NDD15691		0	0		0	0	-30	Wet
NDD15693	sedimentary	0	20	volcanic	100	55	-30	Wet
	metasedimentary w quartz							
NDD16542	veins	0	60		0	0	-30	Wet
NDD16543	diorites	0	40		0	0	-30	Wet
NDD17014		0	0		0	0	-30	Wet
				metasedimentary w				
NDD17015	intrusives	0	40	quartz	0	50	-30	Wet
NDD17016	conglomerate	0	20	volcanic	0	10	-30	Wet
NDD17017	metasedimentary w quartz	0	50		0	0	-30	Wet
NDD17019	metasedimentary	0	40	intrusives	0	20	-30	Wet
NDD17020	conglomerate	0	10	volcanic	0	40	-30	Wet
NDD17021	intrusives	0	20	metasedimentary	0	30	-30	Wet
NDD17453	dioritic intrusive	0	10	siltstone - banded	0	40	-30	Wet
NDD17455	siltstone	0	25		0	0	-30	Wet
NDD17457	siltstone	0	10		0	0	-30	Wet

Sample_ID	Volume_Processed_L	Sample_Weight_Kg	Length_Sampled_m	#_Sites	Pct_Silt	Pct_Sand	Pct_Granules	Pct_Cobbles	Organics
NDD15684	8	1.6	20	25	30	60	10	0	low
NDD15685	10	1.2	25	20	30	50	15	5	medium
NDD15686	14	1.0	30	30	20	60	20	0	low
NDD15687	6	2.1	15	22	90	5	5	0	medium
NDD15688	7	1.6	20	30	60	35	5	0	low
NDD15689	10	1.2	35	40	15	65	15	5	low
NDD15690	6	1.3	18	20	80	15	5	0	medium
NDD15690rpt	6	1.3	18	20	80	15	5	0	medium
NDD15691	8	1.3	15	25	60	40	0	0	high
NDD15693	8	1.3	40	40	10	40	40	10	low
NDD16542	8	2.8	25	15	50	40	10	0	low
NDD16543	10	1.9	20	15	20	75	5	0	low
NDD17014	10	1.0	20	20	20	60	15	5	low
NDD17015	10	2.0	25	25	15	50	30	5	low
NDD17016	10	1.2	30	30	20	50	20	10	low
NDD17017	8	1.3	20	25	40	50	10	0	low
NDD17019	10	1.7	30	25	30	50	20	0	medium
NDD17020	10	1.9	30	30	30	30	30	10	low
NDD17021	8	1.7	20	20	40	40	20	0	medium
NDD17453	10	1.5	70	30	10	70	20	0	low
NDD17455	10	1.7	30	20	10	80	10	0	low
NDD17457	8	0.9	50	30	20	50	30	0	medium

Sample_ID	Carbonate	Mn_Oxides	Fe_Oxides	Comments	Ag_ppb_BLG	Au_ppb_BLG	Cd_ppb_BLG	Cu_ppm_BLG	Fe_ppm_BLG
NDD15684	none	none	none		438	2.78	1790	24	258
NDD15685	none	none	none		442	3.1	1074	54	714
NDD15686	none	none	none		382	1.9	350	23.4	310
NDD15687	none	none	medium		368	1.42	266	22.6	168
NDD15688	none	none	none		220	2.44	174	26.6	224
NDD15689	none	none	medium		183	1.04	68	11.78	34
NDD15690	none	none	none		526	3.14	1070	37.6	404
NDD15690rpt	None	None	None		NA	NA	NA	NA	NA
NDD15691	none	none	none		199.8	2.2	180	14.52	252
NDD15693	none	none	low	possibly till as well	772	5.04	1942	50.4	66
NDD16542	none	none	none		250	2.72	322	30.6	228
NDD16543	none	none	low		264	3.38	356	41.6	106
NDD17014	none	none	none	08 534033, 7139651	584	5.92	656	36.4	1
NDD17015	none	none	none	08 533514, 7136067	396	1.76	216	21.6	52
NDD17016	none	none	none		586	1.18	280	20.6	19
NDD17017	none	none	none		224	2.46	166	19.58	110
NDD17019	none	none	none		380	2.06	390	23.2	440
NDD17020	none	none	none		624	2.2	222	21.4	324
NDD17021	none	none	none		806	2.1	192	26.6	648
NDD17453	none	none	low	debris-filled creek	638	2.9	924	45	50
NDD17455	none	none	low		296	2.54	1578	10.08	236
NDD17457	none	none	low		594	3.14	506	25.8	304

Sample_ID	Hg_ppb_BLG	Mo_ppm_BLG	S_mg_L_BLG	As_ppm	Ba_ppm	Bi_ppm	Ca_pct	Cu_ppm	Fe_pct	Hg_ppb	In_ppm	Mn_ppm
NDD15684	2	0.4	224	34.4	120	0.62	0.86	166	5.29	140	0.145	1100
NDD15685	18	0.5	364	18.6	194	0.42	0.76	121	4	130	0.095	791
NDD15686	5	0.2	268	12	219	0.34	0.61	52	2.91	80	0.045	1030
NDD15687	25	0.46	216	21.4	126	0.74	3.38	70.5	4.08	160	0.1	1430
NDD15688	4	0.14	248	16.4	140	0.72	1.61	67	3.92	100	0.07	898
NDD15689	14	0.08	164	20.2	71	1.64	4.8	56	3.88	60	0.06	1780
NDD15690	6	0.36	264	30.4	160	0.8	0.69	113	4.46	130	0.085	993
NDD15690rpt	140	6.3		28.8	165	0.76	0.68	116	4.18	140	0.095	971
NDD15691	3	0.34	156	10.4	232	0.38	0.53	44	2.95	90	0.035	745
NDD15693	71	0.72	188	73.8	150	1.8	1.12	195	5.77	190	0.12	2140
NDD16542	8	0.14	240	13.4	140	1.4	0.87	75.5	3.79	100	0.06	544
NDD16543	12	0.64	228	51.2	106	5.2	2.35	148	5.9	80	0.13	2500
NDD17014	111	0.26	24	37	190	0.86	0.55	434	7.86	240	0.235	2470
NDD17015	67	0.28	224	29.4	132	0.86	3.84	99	4.21	180	0.105	1890
NDD17016	81	0.14	160	26	158	0.86	5.29	92.5	4.71	230	0.115	2610
NDD17017	12	0.18	204	25.6	124	1.12	2.87	63	4.14	110	0.08	1970
NDD17019	6	0.2	312	13.6	155	0.46	0.81	58.5	3.25	90	0.05	1400
NDD17020	3	0.24	276	16.4	191	0.62	0.63	55	4.02	90	0.055	1360
NDD17021	2	0.36	304	25.4	300	0.52	1.91	74.5	3.81	100	0.07	1130
NDD17453	56	0.28	136	27.2	107	0.64	0.92	166	4.51	150	0.09	1060
NDD17455	4	0.22	244	14.6	171	0.48	0.79	70.5	3.1	90	0.045	998
NDD17457	6	0.18	256	14.6	161	0.5	1.03	77.5	3.49	120	0.05	1080

Sample_ID	Mo_ppm	Ni_ppm	Pb_ppm	Sb_ppm	Te_ppm	Tl_ppm	U_ppm	W_ppm	Y_ppm	Zn_ppm
NDD15684	8.8	90	53	3.84	0.1	0.46	13.2	0.1	22	1110
NDD15685	5.1	50	44	2.28	0.06	0.34	6.91	0.1	19.2	585
NDD15686	1.4	26	20	1.2	0.04	0.14	2.47	0.2	13.5	148
NDD15687	3.7	31	37	3.62	0.06	0.33	2.16	-0.1	14.1	256
NDD15688	2.3	37	23	2.1	0.04	0.25	0.99	0.1	12	141
NDD15689	1.3	24	12	3.28	0.04	0.33	0.96	-0.1	15.6	42
NDD15690	6	60	72	2.22	0.1	0.53	5.88	0.1	14.7	464
NDD15690	6.3	63	67	2.18	0.08	0.50	5.56	0.1	13.2	475
NDD15691	2.4	24	26	0.92	-0.02	0.14	2.14	0.2	9.66	118
NDD15693	8.7	81	306	3.8	0.14	0.66	3.37	0.2	21	1180
NDD16542	2.1	36	34	1.16	0.04	0.23	0.88	0.1	11.5	306
NDD16543	8.1	58	27	3.68	0.1	0.31	2.32	0.1	20	144
NDD17014	4.7	62	69	2.68	0.08	0.39	4.67	0.2	27.6	1040
NDD17015	6.2	37	36	4.18	0.06	0.55	1.09	-0.1	13.6	242
NDD17016	2.8	47	65	5.18	0.04	0.5	1.31	-0.1	17.9	425
NDD17017	3.1	39	25	2.06	0.04	0.22	0.98	0.1	13.9	121
NDD17019	2	27	41	1.52	0.08	0.16	1.35	0.1	13.4	158
NDD17020	2.1	28	48	1.56	0.08	0.16	2.07	0.1	13.7	172
NDD17021	7.4	45	47	4.02	0.1	0.28	2.1	-0.1	15.4	169
NDD17453	6	73	146	4.46	0.08	0.3	2.17	0.2	20.3	703
NDD17455	2.6	44	40	1.3	0.04	0.21	1.99	0.2	11.6	373
NDD17457	2.6	33	103	2.22	0.04	0.16	1.47	0.1	11.5	260

Appendix E: Geologist's Certificate

GEOLOGIST'S CERTIFICATE

Michael Nemitz
357 Inverness Dr. S
Englewood, CO 80112

I, Michael Nemitz, am a Senior Geologist with Newmont Mining Corporation, with offices at 357 Inverness Dr. S. in the city of Englewood, CO, USA.

I am a graduate of the University of Minnesota, Duluth (2001) with a Bachelor of Science degree in Geology and am a graduate of the University of Idaho (2003) with a Master of Science degree in Geology and I have practiced my profession continuously since 2002.

Since 2002 I have been involved in mining and mineral exploration of gold in the United States and Canada.

I am presently a Senior Geologist and have been so since 2008.

Dated at Englewood, Colorado, this 26th day of March, 2012.



Michael Nemitz, MSc.

Appendix F: Assay Certificates



Ultra Trace - Bureau Veritas

MINERAL TESTING &
LABORATORY SERVICES

ULTRA TRACE Pty. Ltd.

A.B.N. 86 008 746 585

58 Sorbonne Crescent,
Canning Vale, Western Australia 6155

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference : u211448
Date : 2nd March 2012
Order : EX01HC
Project : 01497
Date Received : 13th January 2012
Samples Analysed : 173

Analysis of Mineral Samples

for

Newmont Exploration - Laboratory

3 Bellows Street

Welshpool WA 6106

Attention : Mr N Radford

Authorised by :
Jon Landau
General Manager
Ultra Trace Pty Ltd

Reference u211448

Order EX01HC

Page 1 of 19

As	Bi	Cu	Hg	In	Mo	Ni	Pb
ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm

[illegible]

Detn Limit	0.2	0.02	0.5	10	.005	0.1	1	1
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BLANK 1	<0.2	<0.02	<0.5	<10	<.005	<0.1	<1	<1
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NDD15684	34.4	0.62	166.	140	0.145	8.8	90	53
----------	------	------	------	-----	-------	-----	----	----

NDD15695	18.6	0.42	121.	130	0.095	5.1	50	44
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NDD15686	12.0	0.34	52.0	80	0.045	1.4	26	20
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NDD15687	21.4	0.74	70.5	160	0.100	3.7	31	37
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NDD15688	16.4	0.72	67.0	100	0.070	2.3	37	23
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NDD15689	20.2	1.64	56.0	60	0.060	1.3	24	12
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NDD15690	30.4	0.80	113.	130	0.085	6.0	60	72
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NDD15690 Rpt	28.8	0.76	116.	140	0.095	6.3	63	67
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NDD15691	10.4	0.38	44.0	90	0.035	2.4	24	26
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NDD15693	73.8	1.80	195.	190	0.120	8.7	81	306



Ultra Trace - Bureau Veritas

MINERAL TESTING &
LABORATORY SERVICES

ULTRA TRACE Pty. Ltd.

A.B.N. 86 008 746 585

58 Sorbonne Crescent,
Canning Vale, Western Australia 6155

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference u211448

Order EX01HC

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	As ppm	Bi ppm	Cu ppm	Hg ppb	In ppm	Mo ppm	Ni ppm	Pb ppm
Detn Limit	0.2	0.02	0.5	10	.005	0.1	1	1
NDD17453	27.2	0.64	166.	150	0.090	6.0	73	146
NDD17455	14.6	0.48	70.5	90	0.045	2.6	44	40
NDD17457	14.6	0.50	77.5	120	0.050	2.6	33	103

Reference u211448

Order EX01HC

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As	Bi	Cu	Hg	In	Mo	Ni	Pb
ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm

Detn Limit	0.2	0.02	0.5	10	.005	0.1	1	1
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Ultra Trace - Bureau Veritas

MINERAL TESTING &
LABORATORY SERVICES

ULTRA TRACE Pty. Ltd.

A.B.N. 86 008 746 585

58 Sorbonne Crescent,
Canning Vale, Western Australia 6155

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference u211448

Order EX01HC

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	As	Bi	Cu	Hg	In	Mo	Ni	Pb
	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detn Limit	0.2	0.02	0.5	10	.005	0.1	1	1
Std Nominal	12.0	0.40	41.0	<10	<.005	9.4	24	36
Determined	13.6	0.34	43.0	10	0.005	9.7	25	33



A.B.N. 86 008 746 585

58 Sorbonne Crescent,
Canning Vale, Western Australia 6155

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference u211448

Order EX01HC

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Sb	Tl	U	W	Y	Zn	Fe	Mn
ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21
0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29
0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37
0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45
0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53
0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61
0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69
0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77
0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85
0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93
0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01
1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17
1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25
1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33
1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41
1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49
1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57
1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65
1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73
1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81
1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89
1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97
1.98	1.99	2.00	2.01	2.02	2.03	2.04	2.05
2.06	2.07	2.08	2.09	2.10	2.11	2.12	2.13
2.14	2.15	2.16	2.17	2.18	2.19	2.20	2.21
2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29
2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37
2.38	2.39	2.40	2.41	2.42	2.43	2.44	2.45
2.46	2.47	2.48	2.49	2.50	2.51	2.52	2.53
2.54	2.55	2.56	2.57	2.58	2.59	2.60	2.61
2.62	2.63	2.64	2.65	2.66	2.67	2.68	2.69
2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77
2.78	2.79	2.80	2.81	2.82	2.83	2.84	2.85
2.86	2.87	2.88	2.89	2.90	2.91	2.92	2.93
2.94	2.95	2.96	2.97	2.98	2.99	3.00	3.01
3.02	3.03	3.04	3.05	3.06	3.07	3.08	3.09
3.10	3.11	3.12	3.13	3.14	3.15	3.16	3.17
3.18	3.19	3.20	3.21	3.22	3.23	3.24	3.25
3.26	3.27	3.28	3.29	3.30	3.31	3.32	3.33
3.34	3.35	3.36	3.37	3.38	3.39	3.40	3.41
3.42	3.43	3.44	3.45	3.46	3.47	3.48	3.49
3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57
3.58	3.59	3.60	3.61	3.62	3.63	3.64	3.65
3.66	3.67	3.68	3.69	3.70	3.71	3.72	3.73
3.74	3.75	3.76	3.77	3.78	3.79	3.80	3.81
3.82	3.83	3.84	3.85	3.86	3.87	3.88	3.89
3.90	3.91	3.92	3.93	3.94	3.95	3.96	3.97
3.98	3.99	4.00	4.01	4.02	4.03	4.04	4.05
4.06	4.07	4.08	4.09	4.10	4.11	4.12	

Detn Limit	0.02	0.01	0.01	0.1	0.01	1	0.01	1
BLANK 1	<0.02	<0.01	<0.01	<0.1	<0.01	<1	<0.01	<1
NDD15684	3.84	0.46	13.2	0.1	22.0	1110	5.29	1100
NDD15685	2.28	0.34	6.91	0.1	19.2	585	4.00	791
NDD15686	1.20	0.14	2.47	0.2	13.5	148	2.91	1030
NDD15687	3.62	0.33	2.16	<0.1	14.1	256	4.08	1430
NDD15688	2.10	0.25	0.99	0.1	12.0	141	3.92	898
NDD15689	3.28	0.33	0.96	<0.1	15.6	42	3.88	1780
NDD15690	2.22	0.53	5.88	0.1	14.7	464	4.46	993
NDD15690 Rpt	2.18	0.50	5.56	0.1	13.2	475	4.18	971
NDD15691	0.92	0.14	2.14	0.2	9.66	118	2.95	745

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ULTRA TRACE Pty. Ltd.
A.B.N. 86 008 746 585

58 Sorbonne Crescent,
Canning Vale, Western Australia 6155

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference u211448

Order EX01HC

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Sb Tl U W Y Zn Fe Mn
ppm ppm ppm ppm ppm ppm % ppm

Detn Limit 0.02 0.01 0.01 0.1 0.01 1 0.01 1





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Sb Tl U W Y Zn Fe Mn
ppm ppm ppm ppm ppm ppm % ppm

Detn Limit	0.02	0.01	0.01	0.1	0.01	1	0.01	1
NDD17453	4.46	0.30	2.17	0.2	20.3	703	4.51	1060
NDD17455	1.30	0.21	1.99	0.2	11.6	373	3.10	998
NDD17457	2.22	0.16	1.47	0.1	11.5	260	3.49	1080



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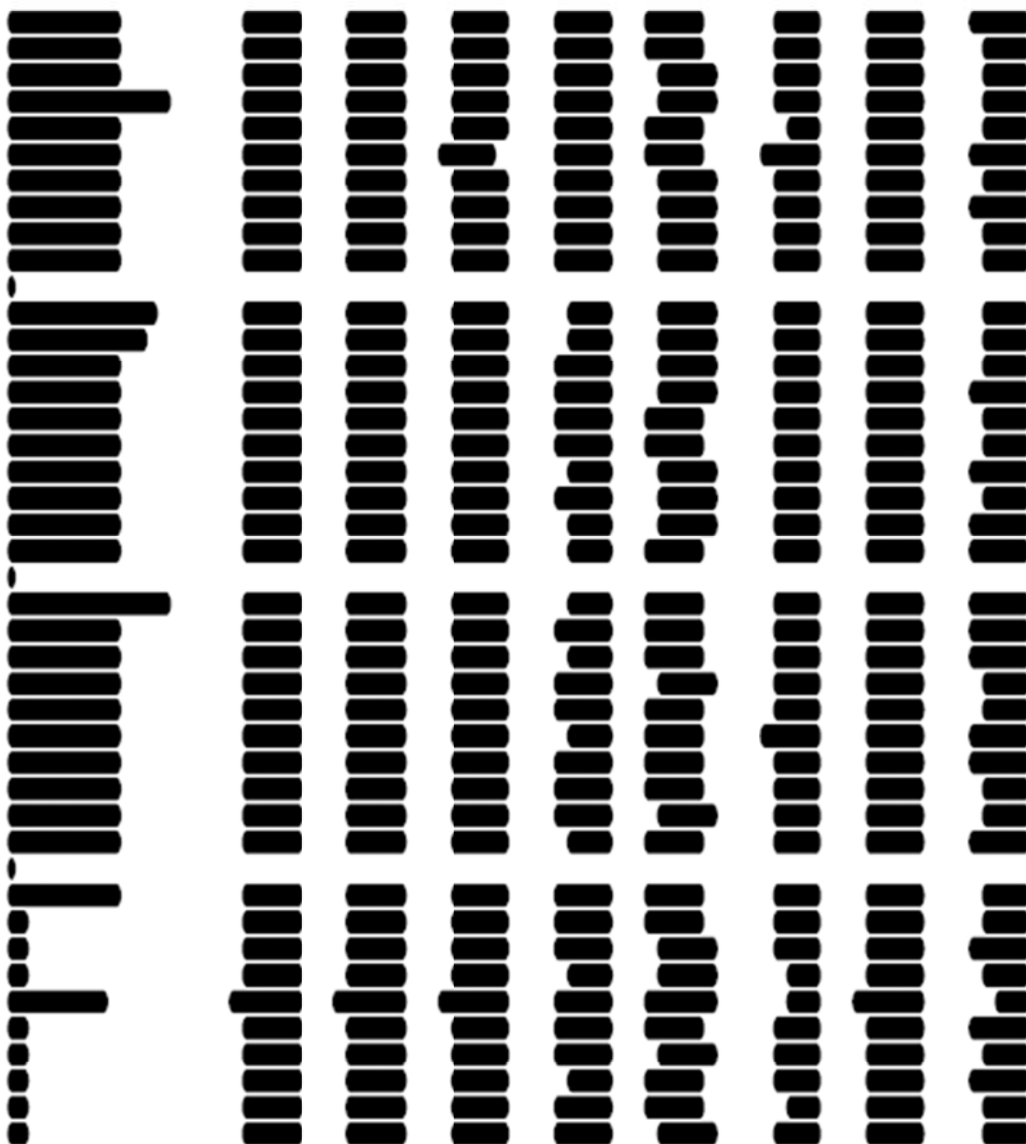
Reference u211448

Order EX01HC

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Sb Tl U W Y Zn Fe Mn
ppm ppm ppm ppm ppm ppm % ppm

Detn Limit 0.02 0.01 0.01 0.1 0.01 1 0.01 1





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	Sb	Tl	U	W	Y	Zn	Fe	Mn
	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Detn Limit	0.02	0.01	0.01	0.1	0.01	1	0.01	1
Std Nominal	1.00	0.08	0.18	0.3	4.57	38	1.20	72
Determined	1.08	0.09	0.17	0.2	4.59	35	1.19	73



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Ca	Te	Ba
g	ppm	ppm

.....

Detn Limit	0.01	0.02	1
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Ca Te Ba
% ppm ppm

Detn Limit 0.01 0.02 1

NDD16542 0.87 0.04 140

NDD16542 Rpt 0.87 0.06 146

NDD16543 2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

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0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

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0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106

0.87 0.04 140

0.87 0.06 146

2.35 0.10 106



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Ca	Te	Ba
g	ppm	ppm

Detn Limit	0.01	0.02	1
------------	------	------	---

NDD17453	0.92	0.08	107
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NDD17455	0.79	0.04	171
----------	------	------	-----

NDD17457	1.03	0.04	161
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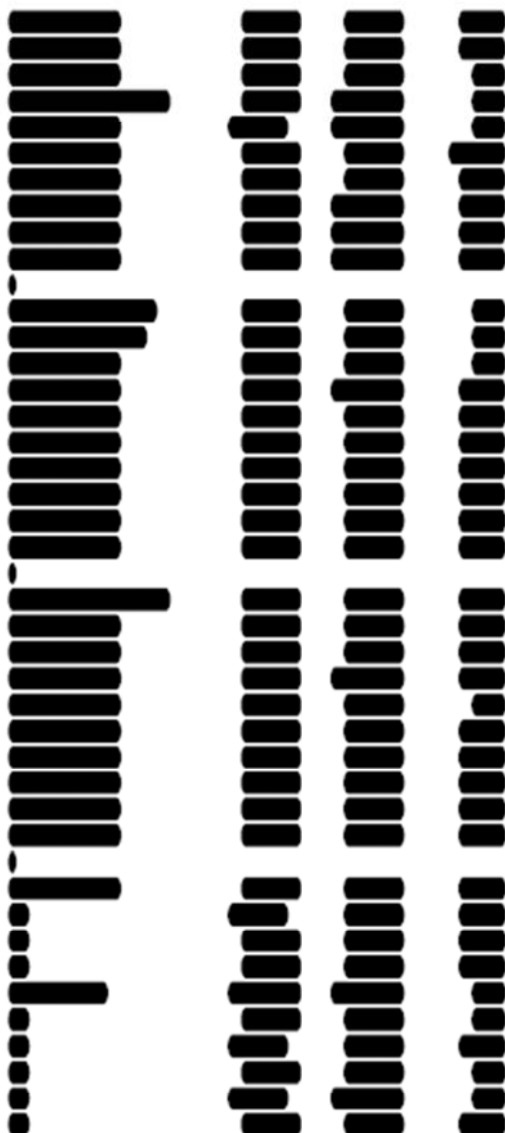
Reference u211448

Order EXD1HC

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Ca	Te	Ba
µ	ppm	ppm

Detn Limit	0.01	0.02	1
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Order EX01HC

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Ca	Te	Ba
%	ppm	ppm

Detn Limit	0.01	0.02	1
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Std Nominal	0.18		5
-------------	------	--	---

Determined	0.18	<0.02	5
------------	------	-------	---



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Order EX01HC

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These results pertain to the samples as received at this laboratory.

Where standards are reported, the nominal value for the element is reported above the result found.

M Implies this result reported in ppm

% Implies this result reported in %

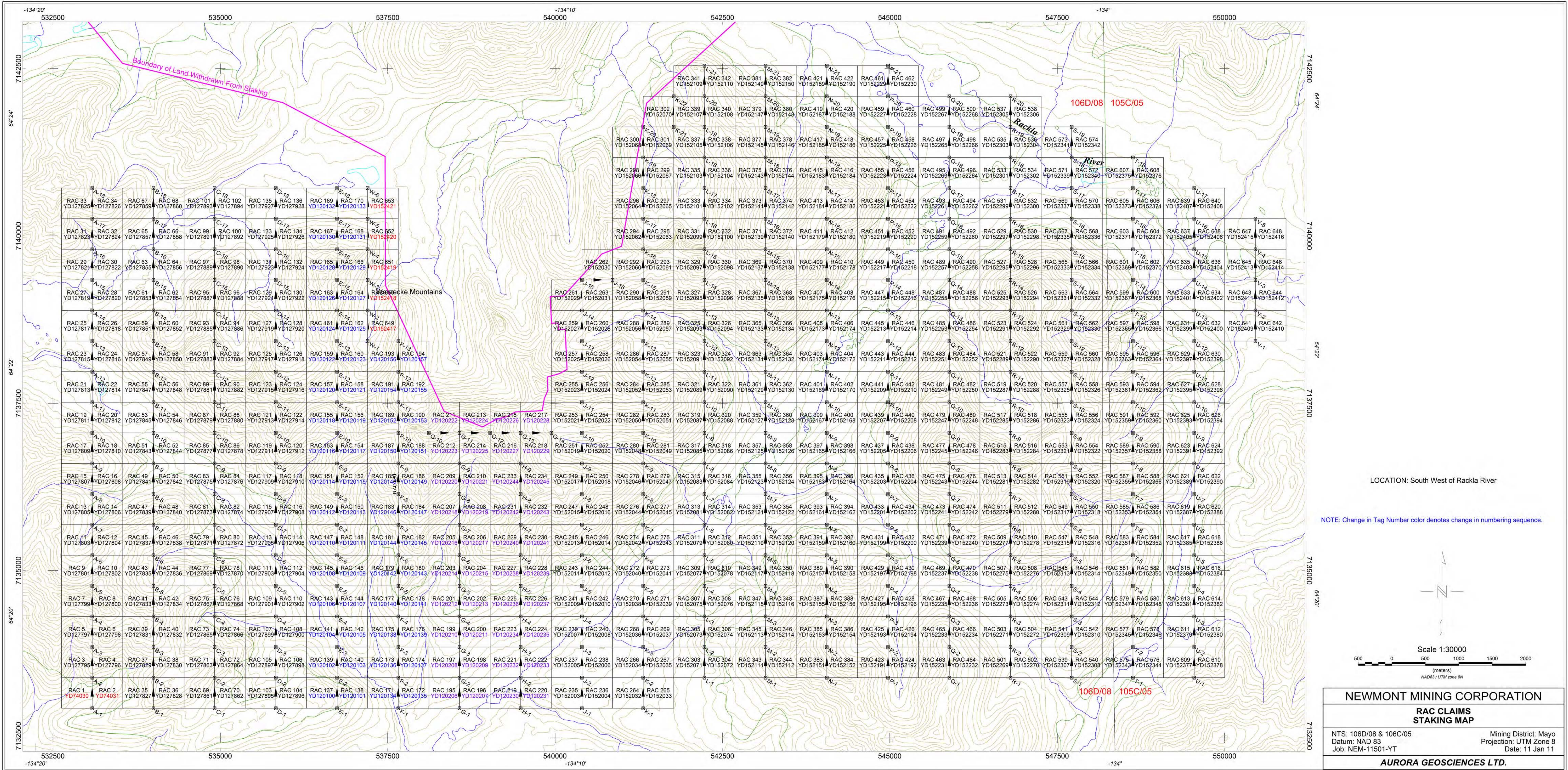
Sample Preparation

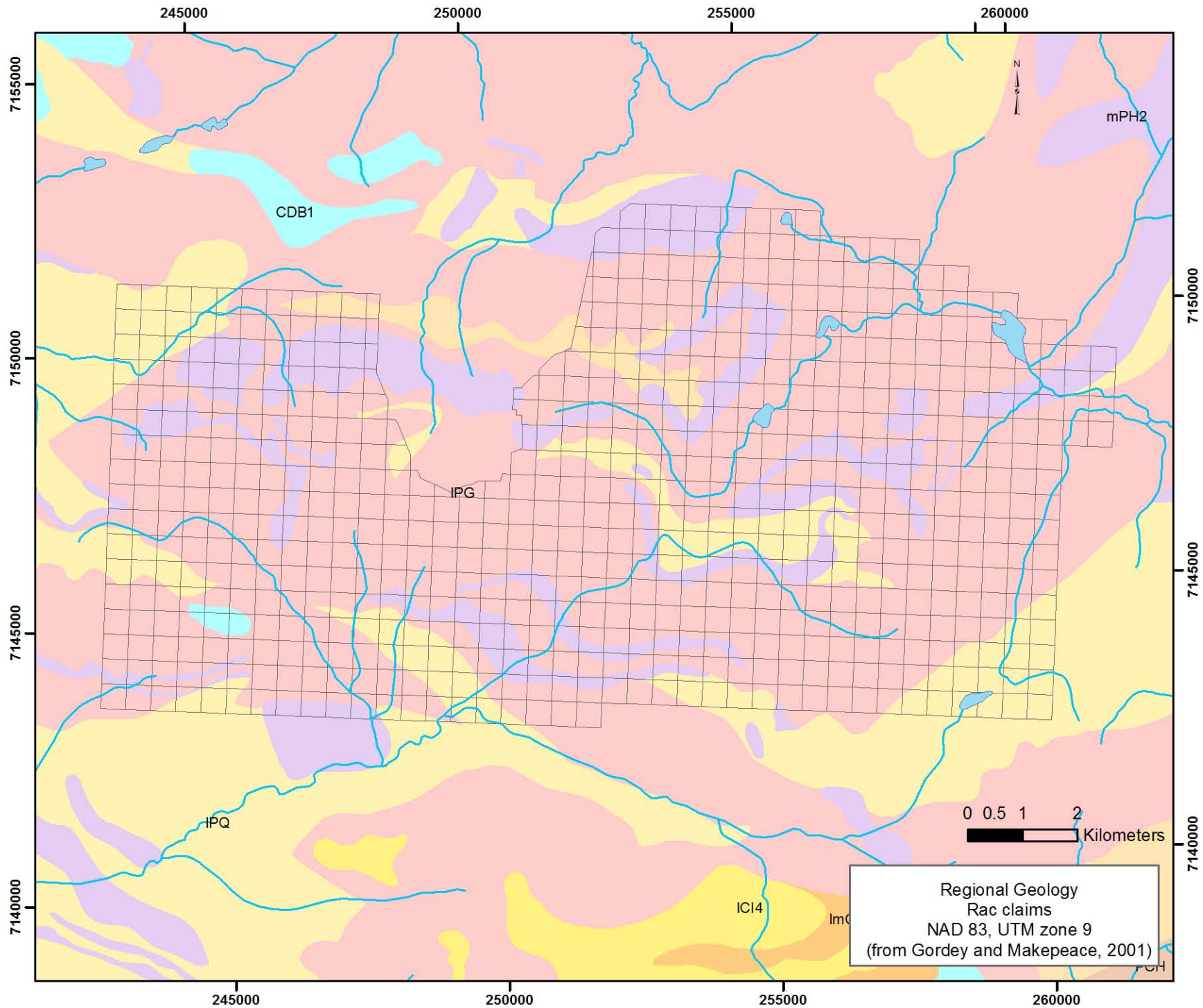
No sample preparation was required on these samples.

The samples have been digested with Aqua Regia. Because of limited sample availability, a very small sample weight was used (approx 1 gram). This is a partial digest though it is extremely efficient for extraction of Gold. Easily digested elements show good recoveries however others (particularly the refractory oxides and silicates) are poorly extracted.

As, Bi, Cu, Hg, In, Mo, Ni, Pb, Sb, Tl, U, W, Y, Zn, Te
have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

Fe, Mn, Ca, Ba
have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.





Legend

bedrock-geology

UPPER CAMBRIAN TO LOWER DEVONIAN

 CDB1: BOUVETTE: grey-and buff-weathering dolostone and limestone, medium to thick bedded; white to light grey weathering, massive dolostone; minor platy black argillaceous limestone, limestone conglomerate, and black shale; massive bluish-grey weathering dolostone (Bouvette, unit CDb)

LOWER AND MIDDLE

 ImCS1?: SLATS CREEK: rusty brown weathering, turbiditic, quartz sandstone with minor shale and siltstone; pale red weathering siltstone, sandstone, quartzite pebble and cobble conglomerate and limestone; maroon with green argillite with minor quartzite and limestone (Slats Creek)

LOWER CAMBRIAN

 IC4I: ILTYD: light grey, medium bedded dolostone; massive, pale grey

UPPER PROTEROZOIC TO LOWER CAMBRIAN

 PCH: HYLAND: consists upwards of coarse turbiditic clastics (1), limestone (2) and fine clastics typified by maroon and green shale (3); may include younger (4) units; includes scattered mafic volcanic rocks (5) (Hyland Gp.)

MIDDLE TO UPPER PROTEROZOIC

 mPPF1: PINGUICULA/FIFTEEN MILE (LOWER): basal siliciclastic red laminates; thin bedded laminated and flasered limestone; laminated dolosiltite; massive white dolostone with wavy cryptalgal lamination, cross bedding, tepee structures, extensive dolomite veinlets and chert (Pinguicula Gp.(lower: units A-C))

 mPH2: HART RIVER: resistant dark weathering diorite and gabbro sills and dykes (Hart River

LOWER PROTEROZOIC

 IPG: GILLESPIE LAKE: dolostone and silty dolostone, locally stromatolitic, locally with chert nodules and sparry karst infillings, interbedded with lesser black siltstone and shale, laminated mudstone, and quartzose sandstone; local dolostone boulder conglomerate (Gillespie Lake Gp.)

 IPQ: QUARTET: black weathering shale, finely laminated dark grey weathering siltstone, and thin to thickly interbedded planar to cross laminated light grey weathering siltstone and fine grained sandstone; minor interbeds of orange weathering dolostone in upper part (Quartet Gp.)