

**Northgate Minerals Corporation
Rimfire Minerals Corporation**

**2007 GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE ECHO PROPERTY**

Echo 1-72 Claims; Grant No. YC44893-44964
Located in the Sixty Mile River Area
Dawson Mining District
NTS 115N/10, 15
63° 45' North Latitude
140° 39' West Longitude
Work Performed July 9, 2007

-prepared for-

NORTHGATE MINERALS CORPORATION
Suite 406, 815 Hornby Street
Vancouver, British Columbia, V6Z 2E6

-and-

RIMFIRE MINERALS CORPORATION
Suite 700, 700 West Pender Street
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-prepared by-
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February 2008

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1.0 SUMMARY

The Echo property consists of 72 contiguous quartz claims covering 15 km² of mountainous terrain in west-central Yukon, 65 km southwest of Dawson City. A poorly-maintained road runs through the centre of the Echo claims, connecting placer operations on Sixty Mile River and Matson Creek. The property is owned equally by Rimfire Minerals Corporation ("Rimfire") and Northgate Minerals Corporation ("Northgate"). Northgate is earning a 60% interest in the property and funded the 2007 program.

The Echo claims were staked in September 2006 to cover two northeast-trending drainages with 96 ppb Au and 6.1 ppm Bi silt geochemical anomalies, and the altered and veined saddle between the two. One day of soil sampling, mapping and prospecting were carried out in July 2007.

The Echo claims are underlain by Mississippian-Devonian orthogneisses (typically augen orthogneisses) with flat-lying foliations, intruded by relatively undeformed muscovite-biotite granite and biotite-hornblende granodiorite of possible mid- to late-Cretaceous age. Soil sampling in 2007 showed no significant Au or base metal in soil geochemical anomalies. Rare, low concentration, single sample anomalies are typically located at relatively low elevations in the valley occupied by a northeast-flowing creek and are interpreted to be the result of placer enrichment from an unknown source. No further work is recommended for the Echo property.

2.0 INTRODUCTION

Equity Engineering Ltd. was contracted by Rimfire Minerals Corporation to carry out a geological, prospecting and geochemical sampling program in 2007 on the Echo property. This program was carried out under the author's direction and he was requested by Rimfire to compile and interpret the results.

3.0 RELIANCE ON OTHER EXPERTS

The author has not relied on a report, opinion or statement of an expert for information concerning legal, environmental, political or other issues.

4.0 PROPERTY DESCRIPTION AND LOCATION

The Echo property lies within the Dawson Mining District in the Sixty Mile River area of west-central Yukon (Figure 1). It is centred at 63° 45' North latitude and 140° 39' West longitude.

The Echo property consists of 72 contiguous quartz claims covering 15.05 km², as summarized in Table 1 (Figure 2). Rimfire and Northgate share equal interest and equal costs up to \$300,000 in exploration expenditures. Northgate has the option of earning an additional 10% interest in the claims by spending a further \$1.5 million. The initial \$300,000 was spent over the course of the 2006 program and thus Northgate funded the entire 2007 program.

Table 1: Claim Data

Claim	Grant No.	Record Date	Expiry Date
Echo 1-72	YC44893 – YC44964	Sept. 7/06	Sept. 7/08



0 75 150 300
kilometres

**RIMFIRE MINERALS CORPORATION
NORTHGATE MINERALS CORP.**

**ECHO PROPERTY
LOCATION
MAP**



Date:	FEB 2008	Scale:	1:8,000,000	Figure
U.T.M. Zone	UTM7 - NAD83	Mining District	DAWSON	1
N.T.S.	115N/10	State/Province	YUKON	

Surface rights over the Echo property are owned by the Yukon Territory. No significant surface disturbance nor any major environmental liabilities were noted during the author's field visit. Exploration permits may be necessary from the Yukon Department of Energy, Mines and Resources prior to carrying out further exploration on the property.

5.0 ACCESSIBILITY, CLIMATE, INFRASTRUCTURE AND PHYSIOGRAPHY

The Echo property lies approximately 65 kilometres west-southwest of Dawson City in west-central Yukon. A 4WD-accessible road extends from placer mining operations on the Sixty Mile River near Miller Creek south to placer operations at Matson Creek, cutting through the heart of the Echo claims. Crossing the Sixty Mile River requires low water level or assistance by heavy equipment. The 2007 work was carried out by helicopter from Dawson City.

The Echo claims cover the joint headwaters of a northeasterly-flowing tributary to Fifty Mile Creek and a southwesterly-flowing tributary to North Ladue River. The geography of the area is characterized by rolling hills typical of the Dawson Ranges, with elevations ranging between 980 and 1600 m. Vegetation is sparse with lower elevations containing hemlock and arctic willow, whereas higher elevations are covered by thick sphagnum moss and grasses. North-facing slopes locally exhibit permafrost, complicating soil sampling. South-facing slopes more typically are vegetated by conifers such as aspen and locally birch. The area is subject to a northern continental climate and can be worked from June until September.

6.0 HISTORY

Regional silt sampling in June 2006 by Rimfire and Northgate yielded two anomalous silt samples from a 13 kilometre long, northeasterly-trending linear formed by tributaries to Fifty Mile Creek and North Ladue River. A 96 ppb Au silt sample was taken from the Fifty Mile tributary approximately 1.8 kilometres northeast of the saddle between the two tributaries and a 6.1 ppm Bi silt sample was taken from the North Ladue tributary approximately 3.6 kilometres southwest of the saddle. During follow-up investigation in September 2006, a 25 x 75 metre quartz stockwork was discovered within sericite-clay-carbonate altered granite within road-cuts in the saddle. Based on this discovery, the Echo 1-72 claims were staked over the saddle and the adjacent portions of the two tributaries. At this time, there was no evidence of previous exploration or claim staking.

Additional silt sampling did not reproduce the original anomalous values and altered rock samples from the Echo showing returned elevated lead values (~200-600 ppm Pb) but no detectable gold. Soil samples returned low gold values in the vicinity of the Echo showing, but a few scattered high gold values (max. 299 ppb Au) to the northeast.

6.1 2007 Exploration Program

In 2007, Equity Engineering Ltd. was contracted to carry out two days of mapping, prospecting and soil sampling on the Echo property. This work was done with a 5-person crew, three of whom flew out of Dawson City while the other two met the helicopter at a staging point north of the claims on the Top of the World Highway. A magnetic declination of 24° 50'E was used for all compass measurements. All maps and UTMs are referenced to the 1983 North American Datum (NAD-83).

A few east-west oriented lines of reconnaissance soil samples at 50 m spacing were taken in the vicinity of Au-bearing 2006 soil samples (Figure 4), with location by GPS. Wherever possible, soil samples were collected from the red-brown B horizon at 15-40 cm depth, and each site was marked with orange flagging and a Tyvek tag. Prospecting and reconnaissance mapping within and adjacent to the northeastern portions of the property were conducted also.

A total of 116 soil samples and 11 rock samples were analyzed by ALS Chemex Labs of North Vancouver for Au and 51-element ICP-MS, using an aqua regia digestion (Appendix D).

7.0 GEOLOGICAL SETTING

7.1 Regional Geology

The regional geology of the Echo area (Gordey and Ryan, 2003) is dominated by a basement or dome of Devonian to Mississippian K-feldspar augen gneiss (**DMoga**; 363-343 Ma) bound to the north and south by low-angle normal faults that dip to the north and south, respectively (Figure 3). The hanging wall (upper plate) to the north is comprised of Devonian – Mississippian quartz-mica schist (**DMps**: Snowcap Assemblage in the Yukon and the Lake George Assemblage in Alaska), with minor klippe of Permian Klondike Schist (**PKs**). The hanging wall to the south is Permian Klondike Schist (**PKs**), which comprises greenschist facies sedimentary rocks derived from Permian mafic to intermediate volcanics (**Pv**), with minor domains of Permian K-feldspar augen orthogneiss and tonalitic orthogneiss (**Poga** and **Pogt**; Sulphur Creek Suite, ~264-259 Ma) that are thought to be the intrusive equivalent of the Permian volcanics. Lower plate and upper plate units are intruded by stock- to batholithic-size Cretaceous granites (**Kg**). Transposed foliations throughout the region are relatively shallow-dipping, providing favourable conditions for larger low-angle structures.

7.2 Property Geology

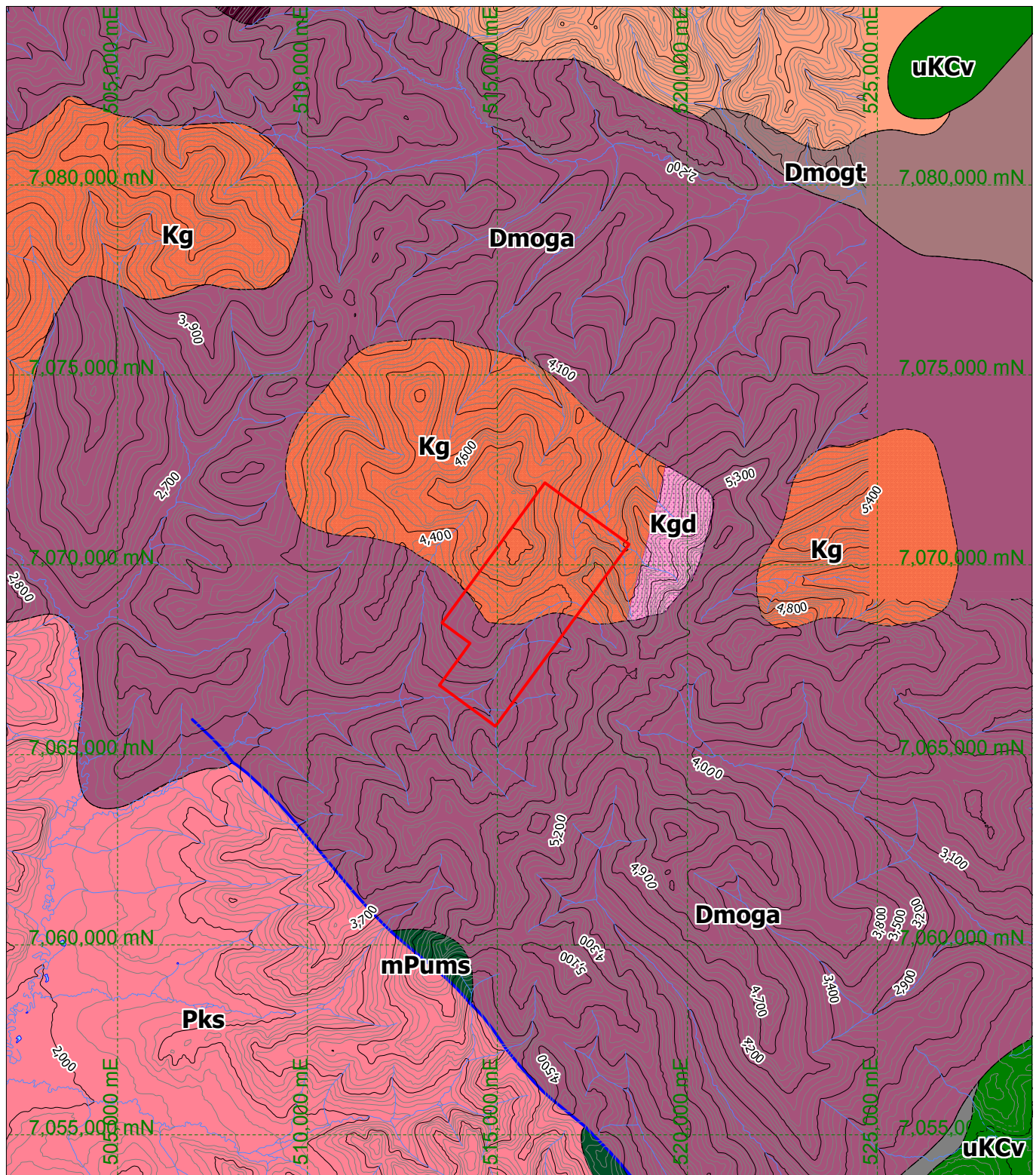
In the area traversed, geological units and contacts are relatively consistent with the regional geological maps, and include Mississippian-Devonian orthogneisses (typically augen orthogneisses) with flat-lying foliations, intruded by relatively undeformed muscovite-biotite granite and biotite-hornblende granodiorite of possible mid- to late-Cretaceous age. Reconnaissance mapping during the 2007 program indicates that the contact between the Cretaceous intrusive suite and the Devonian orthogneiss is farther to the northeast than depicted on the regional geologic map of Gordey and Ryan (2003). The reinterpreted contact is shown in Figure 4. It should be noted that the northeastern contact was not observed and may be irregular or lie even further to the east.

8.0 MINERALIZATION

No significant mineralization was discovered in 2007.

The Echo showing was discovered in 2006. Altered bedrock is exposed at the top of the saddle by the road excavation, and float of the same material is found for several hundreds of metres NE and SW down-valley from the saddle. The width of the showing at the saddle, including exposed bedrock and float, is approximately 50 metres, but the true width is difficult to determine due to cover by talus from the adjacent slopes. The showing is hosted by a medium to coarse grained muscovite + biotite ± garnet granite. In the saddle, alteration/mineralization and exposure type (outcrop, trenched bedrock, float) can be broken down into four zones:

- 1) Weak to moderate pervasive sericite-clay ± carbonate alteration of the granite (weak to moderate bleaching of feldspars), in rare outcrop not covered by talus that occurs on the side slope ~10-15 m above the eastern side of the saddle, approximately 150 metres east of the centre of the main showing.
- 2) Moderate to strong sericite-clay-carbonate alteration of the granite (moderate to strong bleaching with greenish sericite and brown carbonate) in a broadly defined valley-parallel corridor, 300m x 50m, running through the east-central portion of the saddle (exposure/float



Geology from Gordey and Ryan, 2005

Kg	Granite
Kgd	Granodiorite
Dmoga	Potassium Feldspar Augen Orthogneiss
PKs	Klondike Schist
mPums	Ultramafic-Gabbro
uKCv	Carmacks Group volcanics
DMogt	Intermediate to mafic Orthogneiss

1000 m

**RIMFIRE MINERALS CORPORATION
NORTHGATE MINERALS CORP.**

**ECHO PROPERTY
REGIONAL GEOLOGY
MAP**



Date:	FEB 2008	Scale:	1:150,000	Figure
U.T.M. Zone	UTM7 - NAD83	Mining District	DAWSON	3
N.T.S.	115N/10	State/Province	YUKON	

influenced by road construction), $\pm$ minor stockwork quartz veins $\pm$ trace to minor pyrite mineralization

3) Quartz stockwork zone, nested within the above corridor, 75m x 25m, exposed as outcrop at a southerly bend in the road, of mm to cm wide quartz stockwork veins $\pm$ microbreccias and associated moderate to strong sericite-clay-carbonate alteration and pyrite mineralization (1-2%) in wallrocks and veins. The stockwork veins have a dominant E-W strike and vertical dip.

4) Quartz vein-breccias, exposed as an irregular boulder train nested within the northerly portion of the above corridor for 150m x 40m. Boulders are typically angular, 20-30 cm in diameter, with cm to 10 cm diameter, angular and strongly altered (sericite-clay-carbonate-pyrite) wallrock fragments, with only weak relict igneous texture remaining (two-mica granite). The breccias are matrix-supported, and composed of coarse crystalline, vuggy to cockscomb quartz, minor vug- and fracture-filling brown carbonate, and 1-2% fine- to coarse-grained pyrite cubes and trace fine-grained galena.

Altered rock samples at the Echo showing are below detection for Au, and are not anomalous in metals except for 200 - 600 ppm Pb.

9.0 SOIL GEOCHEMISTRY

A total of 300 soil samples have been taken from the Echo property, including 116 taken in 2007. Percentile levels and correlations for the entire data set are given in Tables 5 and 6.

Table 2: Soil Geochemistry Percentiles

	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	Te (ppm)	Zn (ppm)
Population	300	300	300	300	300	300	300	300	300
Max Value	299	0.93	28.1	10.1	56.3	1.05	4.8	0.09	139
Min Value	0	0	0	0	0	0	0	0	0
98th	12	0.46	10.51	2.21	33.50	0.57	3.32	0.07	86
95th	8	0.36	9.32	1.70	26.91	0.52	2.4	0.06	74
90th	6	0.26	8.5	1.27	20.21	0.46	2.1	0.05	69
85th	5	0.20	7.7	1.04	18.53	0.42	1.9	0.05	66
80th	-5	0.17	7.2	0.90	16.32	0.41	1.7	0.04	63
70th	-5	0.14	6.5	0.68	14.23	0.38	1.4	0.04	58
60th	-5	0.12	5.8	0.55	12.44	0.35	1.3	0.03	55
50th	-5	0.10	5.3	0.45	11.5	0.33	1.1	0.03	50

Table 3: Soil Geochemistry Correlation Matrix

	Au	Ag	As	Bi	Pb	Sb	Sn	Te	Zn
Au	--								
Ag	0.0142	--							
As	0.0095	0.0480	--						
Bi	0.0412	-0.0266	0.1848	--					
Pb	-0.0415	0.1695	0.4226	0.2596	--				
Sb	0.0395	0.1369	0.7055	0.1674	0.4403	--			
Sn	-0.0453	-0.1259	0.3568	0.1310	0.2804	0.4073	--		
Te	0.0012	0.2740	0.5050	0.1253	0.3039	0.4835	0.3252	--	
Zn	-0.0166	-0.1105	0.5958	0.1756	0.5395	0.6789	0.6267	0.2884	--

The strongest correlations are between As:Sb, Sb:Zn, Sn:Zn, As:Zn and Pb:Zn (Table 6). None of these elements occur in abundance (Table 5) in the area nor are there significant geochemical anomalies associated with them. Three single sample and a two-sample anomaly for gold occur in the area tested by the 2007 sampling. These anomalies are relatively small however, with values ranging from 29 to 14 ppb. The highest of the point anomalies at 29 ppb occurs 100 m west of the 299 ppb sample returned from the 2006 program. Anomalous samples may be affected the result of placer effects as they occur at the base of the slope near adjacent to a northeast flowing creek.

10.0 INTERPRETATION AND CONCLUSIONS

The Echo property lies along the central portion of a 13 kilometre topographic linear, within Devono-Mississippian orthogneiss intruded by relatively undeformed Cretaceous biotite-muscovite granite and biotite-hornblende granodiorite. The claims were staked in 2006 on the basis of a ~50 metre wide quartz stockwork zone in sericite-clay-carbonate altered granite. Subsequent rock analyses showed the alteration and quartz stockwork to be gold-deficient, but scattered anomalous gold soil geochemistry led to two days of follow-up soil geochemistry, mapping and prospecting in July 2007.

The results of the 2007 work are generally negative. Soil geochemical values are generally low in base and precious metals and no significant mineralization was discovered. Previous highly anomalous and anomalous results from this program are likely the result of placer enrichment in the valley bottoms. No further work is recommended on the Echo property.

Respectfully submitted,



Robin Black, Geologist

EQUITY ENGINEERING LTD.

Vancouver, British Columbia

February, 2008

Appendix A: References

REFERENCES

- Gordey, S.P. and Ryan, J.J., 2005, Geology, Stewart River Area (115N, 115-O and part of 115-J), Yukon Territory; Geological Survey of Canada, Open File 4970, scale 1:250 000.
- Roberts, M. and Baker, D., 2007, 2006 Geological and Geochemical Report on the Rimfire-Northgate Alliance; Stewart River Area, Yukon. Internal Company Report.

Appendix B: Statement of Expenditures

STATEMENT OF EXPENDITURES
Echo 1-72 Claims
July 9, 2007

PROFESSIONAL FEES AND WAGES:

Robin Black, Project Geologist			
1.00 day @ \$650/day	\$	650.00	
Mike Roberts, Ph.D. (Geology)			
1.00 day @ \$650/day		650.00	
Francine Long, Sampler			
1.00 day @ \$275/day		275.00	
Tim Sullivan, Prospector			
1.00 day @ \$475/day		475.00	
Nathan Theriau, Sampler			
1.00 day @ \$275/day		275.00	
	\$		2,325.00

EQUIPMENT RENTALS

Rental Truck Insurance			
2 days @ \$10/day	\$	20.00	
Field Computers			
1 day @ \$40/day		40.00	
PDA's			
1 day @ \$20/day		20.00	
			80.00

EXPENSES:

Geochemical Analyses	\$	1,686.65	
Meals		204.93	
Accommodation		490.50	
Truck Rental (non-Equity)		299.90	
Helicopter Charters		2,128.76	
Report (estimated)		1,000.00	
			5,810.74

SUB-TOTAL: \$ 8,215.74

PROJECT SUPERVISION CHARGES:

12% on subtotal: (\$8,215.74) 985.89

SUB-TOTAL: \$ 9,201.63

GST: 6% on sub-total 552.10

TOTAL: \$ 9,753.73

Appendix C: Certificates of Analyses



ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.
700 - 700 PENDER ST.
VANCOUVER BC V6C 1G8

Page: 1
Finalized Date: 8-AUG-2007
Account: E1ANGX

CERTIFICATE VA07078220

Project: North Dawson

P.O. No.: NGX07-02

This report is for 59 Rock samples submitted to our lab in Vancouver, BC, Canada on 18-JUL-2007.

The following have access to data associated with this certificate:

HENRY AWMACK
WES HODSON

ROBIN BLACK
MIKE ROBERTS

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS41	51 anal. aqua regia ICPMS	

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
700 - 700 PENDER ST.
VANCOUVER BC V6C 1G8

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.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

Page: 2 - A
Total # Pages: 3 (A - D)
Finalized Date: 8-AUG-2007
Account: EIANGX

CERTIFICATE OF ANALYSIS **VA07078220**

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g). Interference: Mo>400ppm on ICP-MS Cd, ICP-AES results shown.



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	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
C274961 C274962		1.30 0.98	<0.005 <0.005	0.02 0.02	0.17 0.01	0.1 <0.1	<0.2 <0.2	<10 <10	10 10	0.24 <0.05	1.40 0.05	0.04 <0.01	0.02 <0.01	2.96 0.05	0.3 0.2	6 13

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g). Interference: Mo>400ppm on ICP-MS Cd, ICP-AES results shown.



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CERTIFICATE OF ANALYSIS **VA07078220**

Sample Description	Method Analyte Units LOR	ME-MS41															
		Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g). Interference: Mo>400ppm on ICP-MS Cd, ICP-AES results shown.



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Page: 3 - C
Total # Pages: 3 (A - D)
Finalized Date: 8-AUG-2007
Account: EIANGX

Project: North Dawson

CERTIFICATE OF ANALYSIS VA07078220

Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
C274961 C274962		0.17 0.06	0.5 1.0	70 <10	5.4 1.3	12.3 0.8	<0.001 <0.001	<0.01 <0.01	<0.05 <0.05	0.4 0.2	<0.2 <0.2	0.5 <0.2	0.9 0.2	<0.01 <0.01	<0.01 <0.01	1.1 <0.2

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g). Interference: Mo>400ppm on ICP-MS Cd, ICP-AES results shown.



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Project: North Dawson

CERTIFICATE OF ANALYSIS VA07078220

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
C274961 C274962		<0.005 <0.005	0.06 <0.02	0.67 <0.05	<1 <1	0.97 0.11	2.17 <0.05	2 <2	5.0 <0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g). Interference: Mo>400ppm on ICP-MS Cd, ICP-AES results shown.



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Account: E1ANGX

CERTIFICATE VA07074509

Project: North Dawson / Echo

P.O. No.: NGX07-02

This report is for 130 Soil samples submitted to our lab in Vancouver, BC, Canada on 18-JUL-2007.

The following have access to data associated with this certificate:

HENRY AWMACK
WES HODSON

ROBIN BLACK
MIKE ROBERTS

QUITY ENGINEERING GENERAL

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
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
AU-AA23	Au 30g FA-AA finish
ME-MS41	51 anal. aqua regia ICPMS
	INSTRUMENT
	AAS

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
700 - 700 PENDER ST.
VANCOUVER BC V6C 1G8

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.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



Project: North Dawson / Echo

Certificate of Analysis VA07074509																
Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
G002498		0.34	<0.005	0.03	0.81	2.8	<0.2	<10	40	0.32	1.27	0.07	0.11	8.05	2.8	7
G002499		0.36	<0.005	0.07	0.29	1.0	<0.2	<10	20	<0.05	0.12	0.05	0.04	2.84	1.7	4
G002500		0.38	0.006	0.05	1.58	6.1	<0.2	<10	90	0.62	0.94	0.22	0.22	20.50	8.5	20
G002820		0.06	<0.005	0.01	<0.1	<0.1	<0.2	<10	10	<0.05	0.01	0.01	0.02	1.58	0.1	<1
G002860		0.04	<0.005	<0.01	0.01	<0.1	<0.2	<10	10	<0.05	<0.01	<0.01	0.01	1.03	0.1	<1
G003300		0.06	<0.005	0.04	<0.01	<0.1	<0.2	<10	10	<0.05	0.01	0.01	0.02	1.32	0.1	<1
G003341		0.66	<0.005	0.05	1.46	5.3	<0.2	<10	100	1.71	2.22	0.23	0.32	25.10	6.7	19
G003342		0.40	<0.005	0.06	1.05	4.9	<0.2	<10	70	0.51	0.89	0.13	0.26	12.00	4.0	14
G003343		0.58	0.006	0.03	0.74	4.1	<0.2	<10	50	0.35	1.34	0.17	0.13	15.30	4.2	15
G003344		0.50	<0.005	0.12	2.08	7.1	<0.2	<10	150	1.00	2.21	0.17	0.21	22.60	7.1	23
G003345		0.44	<0.005	0.07	0.50	1.0	<0.2	<10	60	0.28	0.30	0.09	0.47	8.36	1.8	7
G003346		0.56	0.011	0.09	1.43	7.8	<0.2	<10	150	0.59	1.60	0.21	0.38	17.50	7.0	22
G003347		0.48	<0.005	0.08	0.45	1.2	<0.2	<10	40	0.12	0.42	0.06	0.12	8.34	1.4	7
G003348		0.26	0.016	0.46	0.61	2.0	<0.2	<10	260	0.59	0.28	0.66	0.28	22.90	5.2	4
G003349		0.42	<0.005	0.10	1.59	4.1	<0.2	<10	180	0.83	0.73	0.31	0.07	21.90	5.7	21
G003350		0.54	<0.005	0.10	1.71	4.4	<0.2	<10	180	0.88	0.75	0.29	0.07	22.80	6.0	22
G003401		0.48	<0.005	0.15	1.74	4.5	<0.2	<10	170	0.44	1.46	0.26	0.09	16.05	5.4	25
G003402		0.42	<0.005	0.26	1.58	3.0	<0.2	<10	190	0.64	1.24	0.31	0.16	19.20	3.8	23
G003403		0.34	<0.005	0.32	0.89	3.0	<0.2	<10	190	0.67	0.66	0.36	0.31	20.20	2.8	13
G003404		0.40	0.007	0.37	1.59	6.4	<0.2	<10	320	1.17	1.36	0.52	0.45	33.90	24.9	20
G003405		0.34	<0.005	0.36	2.37	8.1	<0.2	<10	480	2.39	1.81	1.13	0.44	76.10	10.5	23
G003406		0.52	<0.005	0.18	2.06	7.6	<0.2	<10	120	0.73	2.02	0.12	0.25	14.50	6.9	25
G003407		0.38	<0.005	0.22	1.17	5.9	<0.2	<10	100	0.56	1.82	0.14	0.28	14.40	3.8	17
G003408		0.38	<0.005	0.04	0.73	1.4	<0.2	<10	90	1.45	0.28	0.08	0.19	18.95	1.7	8
G003409		0.54	<0.005	0.04	1.48	6.6	<0.2	<10	80	0.73	1.04	0.13	0.15	17.55	4.9	20
G003410		0.42	<0.005	0.09	1.16	3.5	<0.2	<10	80	0.34	0.96	0.14	0.11	12.45	3.6	17
G003411		0.28	0.014	0.12	0.32	0.9	<0.2	<10	30	0.10	0.21	0.08	0.37	4.44	1.1	8
G003412		0.38	<0.005	0.20	0.91	1.5	<0.2	<10	120	0.90	0.68	0.32	0.09	13.25	2.8	14
G003413		0.30	0.005	0.34	1.44	2.7	<0.2	<10	220	1.36	1.33	0.71	0.10	29.50	3.1	20
G003414		0.36	<0.005	0.09	1.91	3.9	<0.2	<10	190	0.80	1.04	0.38	0.09	22.70	11.1	25
G003415		0.32	0.006	0.09	1.42	2.8	<0.2	<10	160	1.08	0.57	0.37	0.08	28.00	4.7	19
G003416		0.40	<0.005	0.01	0.31	1.3	<0.2	<10	20	<0.05	0.22	0.04	0.04	4.35	1.4	4
G003417		0.48	0.005	0.02	1.19	4.4	<0.2	<10	100	0.58	0.84	0.29	0.21	27.80	7.7	21
G003418		0.24	0.005	0.08	0.29	1.1	<0.2	<10	30	0.07	0.52	0.07	0.09	3.91	1.4	5
G003419		0.30	0.020	0.19	0.44	2.0	<0.2	<10	110	0.36	0.63	0.34	0.56	9.80	2.2	8
G003420		0.46	<0.005	0.09	0.47	2.5	<0.2	<10	50	0.10	1.13	0.08	0.22	6.60	2.3	8
G003421		0.44	0.007	0.46	1.52	4.2	<0.2	<10	240	2.34	0.29	0.69	0.50	66.90	4.2	12
G003422		0.42	0.006	0.35	1.99	7.1	<0.2	<10	290	1.53	0.54	1.15	0.96	33.20	10.5	27
G003423		0.34	<0.005	0.69	1.77	5.7	<0.2	<10	270	4.24	0.56	1.34	0.81	74.80	24.9	23
G003424		0.34	0.006	0.27	0.39	0.9	<0.2	<10	80	0.37	0.09	0.17	0.34	10.35	1.7	6

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
G002498		1.45	8.1	1.25	3.92	<0.05	<0.02	0.04	0.009	0.03	4.1	5.5	0.13	105	0.61	0.01
G002499		0.33	5.1	0.82	2.24	<0.05	<0.02	0.03	<0.005	0.02	1.5	0.6	0.04	45	0.42	0.02
G002500		1.65	10.3	2.30	5.01	<0.05	0.03	0.04	0.022	0.05	10.1	20.9	0.33	511	0.68	0.01
G002820		<0.05	0.8	0.02	0.06	<0.05	0.03	<0.01	<0.005	<0.01	0.8	0.2	<0.01	<5	0.05	0.02
G002860		<0.05	0.6	0.01	0.05	<0.05	0.02	<0.01	<0.005	<0.01	0.5	0.1	<0.01	<5	<0.05	<0.01
G003300		<0.05	0.6	0.01	<0.05	<0.05	0.03	<0.01	<0.005	<0.01	0.6	0.1	<0.01	<5	<0.05	<0.01
G003341		3.76	10.5	2.26	4.88	<0.05	0.04	0.03	0.024	0.05	11.4	18.2	0.34	645	0.59	0.01
G003342		1.66	9.7	1.85	5.31	<0.05	0.03	0.07	0.014	0.05	6.0	10.6	0.19	207	0.84	0.02
G003343		1.99	6.5	1.56	4.32	<0.05	0.02	0.03	0.013	0.06	7.5	9.5	0.21	293	0.60	0.01
G003344		3.70	16.1	2.65	8.21	<0.05	0.10	0.03	0.028	0.05	11.9	20.0	0.41	241	0.97	0.01
G003345		0.78	5.0	0.82	3.23	<0.05	<0.02	0.05	0.006	0.04	4.2	1.1	0.04	47	0.52	0.06
G003346		1.99	10.5	2.24	5.85	<0.05	0.03	0.06	0.021	0.08	8.6	19.3	0.33	359	0.94	0.01
G003347		0.74	7.0	0.68	3.45	<0.05	<0.02	0.03	0.007	0.03	4.2	1.9	0.05	47	0.50	0.02
G003348		0.29	10.3	0.96	0.87	<0.05	0.03	0.15	0.009	0.04	11.8	1.0	0.09	300	0.73	0.03
G003349		2.88	10.1	1.86	5.75	<0.05	0.03	0.05	0.023	0.05	11.6	28.3	0.39	141	0.69	0.01
G003350		3.03	10.9	1.98	5.89	<0.05	0.03	0.05	0.024	0.05	12.1	29.2	0.40	141	0.68	0.01
G003401		2.07	6.9	1.86	6.55	<0.05	0.02	0.09	0.021	0.05	8.5	17.5	0.40	113	0.64	0.01
G003402		1.61	7.9	1.47	5.36	<0.05	0.03	0.12	0.019	0.05	10.1	12.0	0.29	83	0.55	0.02
G003403		0.77	11.2	1.42	2.52	<0.05	0.03	0.11	0.012	0.04	10.5	3.9	0.15	47	0.72	0.02
G003404		1.56	15.1	2.23	4.82	<0.05	0.04	0.10	0.020	0.05	16.4	11.0	0.30	1170	1.61	0.02
G003405		1.60	27.7	2.10	5.50	0.08	0.11	0.16	0.028	0.09	35.0	11.7	0.34	1140	0.95	0.02
G003406		1.90	14.4	2.55	7.35	<0.05	0.03	0.05	0.026	0.06	7.7	17.0	0.32	276	0.89	0.01
G003407		1.25	13.4	1.64	6.18	<0.05	0.02	0.07	0.019	0.05	7.6	7.0	0.18	202	1.23	0.02
G003408		0.79	10.6	0.76	3.12	<0.05	0.02	0.03	0.009	0.03	10.1	2.2	0.10	51	0.41	0.03
G003409		1.39	8.2	2.25	6.08	<0.05	0.04	0.04	0.021	0.04	9.0	13.8	0.31	194	0.58	0.01
G003410		1.59	6.3	1.46	4.63	<0.05	0.02	0.05	0.012	0.05	6.5	9.5	0.25	168	0.56	0.01
G003411		0.31	4.8	0.50	1.69	<0.05	<0.02	0.09	0.006	0.03	2.4	0.6	0.03	52	0.44	0.02
G003412		0.87	5.7	0.93	3.31	<0.05	0.02	0.08	0.012	0.03	6.7	6.3	0.17	77	0.37	0.02
G003413		1.31	13.7	1.30	4.11	0.05	0.05	0.21	0.021	0.05	15.8	13.2	0.24	61	0.54	0.02
G003414		2.20	9.2	2.07	5.95	<0.05	0.03	0.07	0.025	0.05	11.2	30.6	0.42	522	0.62	0.02
G003415		2.34	11.5	1.55	5.29	<0.05	0.03	0.06	0.022	0.05	15.5	25.1	0.36	141	0.59	0.02
G003416		0.50	1.0	0.75	3.46	<0.05	<0.02	0.02	<0.005	0.02	2.2	1.2	0.06	62	0.43	0.02
G003417		1.51	12.4	1.98	4.10	0.05	0.07	0.02	0.016	0.06	13.5	23.1	0.41	323	0.50	0.01
G003418		0.47	2.9	0.70	2.18	<0.05	<0.02	0.04	<0.005	0.03	2.0	1.8	0.04	80	0.44	0.02
G003419		0.78	6.4	0.68	1.97	<0.05	<0.02	0.11	0.006	0.06	5.3	2.8	0.09	160	0.70	0.02
G003420		1.07	5.6	0.92	2.75	<0.05	<0.02	0.06	<0.005	0.04	3.4	3.8	0.08	108	0.49	0.02
G003421		2.53	17.7	1.48	4.10	0.12	0.06	0.10	0.020	0.05	43.7	7.3	0.16	135	0.79	0.02
G003422		3.42	24.4	2.44	6.14	0.08	0.07	0.10	0.029	0.11	18.4	20.9	0.48	1115	1.12	0.02
G003423		4.04	17.9	2.55	5.47	0.14	0.08	0.18	0.035	0.05	43.8	11.1	0.28	3980	1.41	0.02
G003424		2.47	4.8	0.40	1.69	<0.05	<0.02	0.09	0.005	0.05	6.0	1.7	0.05	179	0.52	0.02

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm
G002498		0.64	5.1	310	9.2	7.0	<0.001	0.01	0.18	1.0	0.5	0.5	8.2	<0.01	0.02	<0.2
G002499		0.27	2.1	290	2.1	1.5	<0.001	0.01	0.10	0.6	0.4	0.2	8.0	<0.01	0.02	<0.2
G002500		1.67	15.0	790	12.1	10.6	<0.001	0.01	0.33	2.7	0.7	0.8	12.8	<0.01	0.03	2.8
G002820		<0.05	0.4	20	0.9	0.1	<0.001	0.01	<0.05	0.1	<0.2	<0.2	0.8	<0.01	<0.01	0.3
G002860		<0.05	0.3	10	0.5	0.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	0.7	<0.01	<0.01	0.2
G003300		<0.05	0.3	10	0.7	0.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	0.6	<0.01	<0.01	0.3
G003341		0.98	15.2	750	19.0	12.9	<0.001	0.02	0.30	2.9	0.4	1.1	15.2	<0.01	0.02	2.4
G003342		0.97	9.1	370	10.3	12.5	<0.001	0.03	0.31	1.7	0.5	0.6	14.7	<0.01	0.04	0.9
G003343		0.71	9.7	510	11.7	13.2	<0.001	0.02	0.26	1.5	0.5	0.7	10.9	<0.01	0.03	0.5
G003344		1.66	18.0	200	20.3	16.1	<0.001	0.01	0.34	4.0	0.4	1.4	19.7	<0.01	0.03	3.6
G003345		0.34	2.9	470	4.6	4.3	<0.001	0.07	0.13	0.8	0.6	0.4	14.5	<0.01	0.02	<0.2
G003346		1.42	16.4	660	12.5	16.9	<0.001	0.04	0.36	2.7	0.5	0.9	18.2	<0.01	0.03	1.4
G003347		0.40	3.1	250	6.3	4.3	<0.001	0.02	0.13	0.8	0.3	0.4	7.7	<0.01	0.01	<0.2
G003348		0.18	5.8	1790	2.7	3.2	0.001	0.20	0.40	0.6	1.1	<0.2	50.0	0.01	0.03	<0.2
G003349		1.11	13.7	850	11.3	11.7	0.001	0.06	0.23	2.2	0.8	1.3	25.1	<0.01	0.03	0.5
G003350		1.11	14.4	870	11.9	11.9	0.001	0.06	0.23	2.2	0.7	1.3	23.9	<0.01	0.02	0.5
G003401		0.74	14.1	640	14.0	11.0	<0.001	0.04	0.26	2.4	0.5	0.8	22.3	<0.01	0.02	0.3
G003402		0.67	11.5	990	11.3	8.4	<0.001	0.10	0.27	2.1	0.8	0.7	28.4	<0.01	0.03	<0.2
G003403		0.43	7.9	1250	6.6	5.9	<0.001	0.14	0.24	1.3	1.0	0.3	36.9	<0.01	0.04	<0.2
G003404		0.76	14.8	1000	14.3	8.8	<0.001	0.10	0.37	3.0	1.0	0.6	48.4	0.01	0.03	0.2
G003405		0.98	23.0	1160	15.3	13.5	<0.001	0.13	0.72	4.8	1.8	0.6	93.2	0.01	0.04	0.5
G003406		1.27	15.9	510	16.0	12.4	<0.001	0.03	0.31	3.3	0.7	0.9	12.6	<0.01	0.03	1.1
G003407		0.85	10.7	590	12.2	8.6	<0.001	0.04	0.28	2.0	0.6	0.9	16.3	<0.01	0.04	0.2
G003408		0.19	4.1	360	5.7	4.4	<0.001	0.02	0.11	0.5	0.6	0.4	13.1	<0.01	0.01	<0.2
G003409		1.20	12.2	360	13.1	8.3	<0.001	0.02	0.29	2.7	0.5	0.6	11.9	<0.01	0.03	1.6
G003410		0.65	9.3	460	9.8	9.5	<0.001	0.03	0.18	1.7	0.4	0.7	12.6	<0.01	0.02	0.2
G003411		0.11	3.0	780	3.3	1.8	<0.001	0.06	0.09	0.3	0.4	0.3	9.7	<0.01	0.01	<0.2
G003412		0.27	5.6	870	7.2	3.6	<0.001	0.07	0.17	1.1	0.6	0.4	23.5	<0.01	0.02	<0.2
G003413		0.69	12.4	1430	11.7	6.5	<0.001	0.18	0.32	2.7	1.3	0.5	55.9	0.01	0.04	<0.2
G003414		0.86	14.8	670	13.3	12.9	<0.001	0.04	0.23	3.2	0.6	0.9	30.1	<0.01	0.02	0.7
G003415		1.04	13.5	970	10.4	11.7	<0.001	0.07	0.20	1.9	0.9	1.2	30.0	<0.01	0.02	0.4
G003416		0.40	1.7	100	3.7	2.9	<0.001	0.01	0.09	0.2	0.2	0.3	6.0	<0.01	0.02	0.2
G003417		1.39	16.4	730	7.1	12.2	<0.001	0.01	0.28	3.4	0.3	0.9	15.2	<0.01	0.02	4.6
G003418		0.32	2.5	350	3.4	3.5	<0.001	0.03	0.11	0.7	0.4	0.3	7.4	<0.01	0.01	<0.2
G003419		0.29	5.0	810	3.5	5.5	<0.001	0.07	0.22	0.7	0.6	0.4	24.5	<0.01	0.02	<0.2
G003420		0.32	4.4	520	6.1	5.2	<0.001	0.04	0.17	0.5	0.6	0.4	8.4	<0.01	0.02	<0.2
G003421		0.86	10.1	1550	12.8	13.8	<0.001	0.19	0.36	1.7	2.0	0.6	55.3	0.01	0.05	0.2
G003422		1.73	21.3	1160	19.7	31.3	<0.001	0.16	0.66	4.8	1.6	1.1	75.0	0.01	0.04	1.1
G003423		0.72	10.0	1590	33.6	17.1	<0.001	0.18	0.36	3.8	2.8	0.7	80.4	0.01	0.07	0.7
G003424		0.46	2.5	1100	4.6	6.9	<0.001	0.10	0.09	0.5	0.9	0.4	18.0	<0.01	0.02	<0.2

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS **VA07074509**

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
G002498		0.053	0.07	3.11	29	0.14	1.72	25	0.5
G002499		0.043	0.03	0.28	24	0.05	0.50	15	<0.5
G002500		0.075	0.11	1.24	49	0.35	5.44	66	0.8
G002820		<0.005	<0.02	0.10	<1	<0.05	0.77	4	0.7
G002860		<0.005	<0.02	0.09	<1	<0.05	0.63	4	0.5
G003300		<0.005	<0.02	0.09	<1	<0.05	0.65	3	0.6
G003341		0.047	0.11	7.36	41	0.19	10.30	70	0.5
G003342		0.066	0.09	0.96	42	0.09	2.49	38	0.7
G003343		0.056	0.09	1.25	40	0.21	3.98	44	<0.5
G003344		0.073	0.20	2.18	61	0.22	5.47	62	3.0
G003345		0.040	0.07	1.38	23	0.07	2.95	15	<0.5
G003346		0.063	0.11	1.74	49	0.21	5.60	63	0.8
G003347		0.040	0.06	0.89	19	0.09	1.36	13	<0.5
G003348		0.006	0.07	4.10	9	0.07	13.55	10	<0.5
G003349		0.053	0.20	7.96	40	0.16	7.53	43	0.6
G003350		0.052	0.22	8.15	42	0.16	7.69	44	0.6
G003401		0.051	0.16	4.43	41	0.15	4.74	47	<0.5
G003402		0.037	0.16	8.79	27	0.22	8.17	35	<0.5
G003403		0.021	0.12	9.87	18	0.11	11.60	22	0.6
G003404		0.035	0.16	12.30	41	0.18	17.60	42	0.5
G003405		0.038	0.16	25.80	38	0.24	50.30	57	1.3
G003406		0.061	0.12	4.81	56	0.22	4.15	57	0.9
G003407		0.052	0.10	5.16	48	0.21	4.90	39	<0.5
G003408		0.019	0.05	8.27	14	0.07	11.45	15	<0.5
G003409		0.074	0.10	2.53	51	0.18	5.83	40	0.9
G003410		0.048	0.11	2.92	33	0.14	3.90	37	<0.5
G003411		0.016	0.04	1.26	15	<0.05	1.22	17	<0.5
G003412		0.023	0.13	10.70	18	0.08	5.99	18	<0.5
G003413		0.024	0.16	19.35	19	0.15	17.05	27	0.6
G003414		0.053	0.17	8.74	44	0.14	7.99	53	<0.5
G003415		0.048	0.14	12.90	32	0.16	11.25	39	0.6
G003416		0.049	0.04	0.18	24	0.09	0.57	13	<0.5
G003417		0.087	0.10	1.68	42	0.17	8.26	48	1.7
G003418		0.033	0.03	0.39	19	0.07	0.75	14	<0.5
G003419		0.020	0.05	1.39	17	0.10	4.20	29	<0.5
G003420		0.033	0.05	0.64	25	0.13	1.43	22	<0.5
G003421		0.029	0.14	17.70	23	0.15	23.40	28	0.5
G003422		0.058	0.21	22.70	49	0.22	16.45	86	1.6
G003423		0.032	0.31	46.70	47	0.17	30.60	44	0.6
G003424		0.016	0.07	4.88	10	<0.05	2.75	16	<0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
G003425		0.34	<0.005	0.18	0.52	1.5	<0.2	<10	120	0.55	0.11	0.18	0.23	21.30	2.9	8
G003426		0.40	<0.005	0.04	1.67	2.4	<0.2	<10	150	0.65	0.26	0.32	0.14	31.20	7.3	24
G003427		0.44	<0.005	0.10	1.35	2.9	<0.2	<10	200	0.78	0.23	0.55	0.29	33.90	6.6	16
G003428		0.34	<0.005	0.10	2.13	6.8	<0.2	<10	190	1.03	0.46	0.33	0.35	23.10	12.7	27
G003429		0.24	<0.005	0.09	1.24	4.2	<0.2	<10	90	0.61	0.33	0.27	0.85	16.90	5.7	18
G003430		0.24	<0.005	0.09	1.38	4.9	<0.2	<10	90	0.65	0.40	0.24	0.70	17.45	6.7	19
G003431		0.30	0.008	0.12	1.48	4.8	<0.2	<10	100	0.66	0.39	0.21	0.22	20.20	5.7	22
G003432		0.58	<0.005	0.09	1.64	5.5	<0.2	<10	140	0.73	0.47	0.26	0.18	25.80	8.5	23
G003433		0.28	0.007	0.32	2.22	8.8	<0.2	<10	230	1.33	0.88	0.27	0.54	23.00	8.4	28
G003434		0.34	<0.005	0.05	1.51	3.6	<0.2	<10	140	0.65	0.51	0.24	0.19	24.30	5.6	21
G003435		0.20	0.005	0.12	1.11	3.9	<0.2	<10	120	1.47	0.31	0.34	0.58	19.25	8.4	16
G003436		0.32	<0.005	0.09	1.27	4.5	<0.2	<10	90	0.65	0.40	0.12	0.18	18.55	5.0	19
G003437		0.30	<0.005	0.11	1.91	8.5	<0.2	<10	160	0.92	0.44	0.21	0.20	29.80	9.8	26
G003438		0.32	<0.005	0.12	0.79	2.8	<0.2	<10	110	0.21	0.22	0.13	0.29	10.30	3.7	13
G003439		0.44	<0.005	0.12	1.87	4.2	<0.2	<10	130	0.55	0.36	0.14	0.12	22.20	5.8	27
G003440		0.06	<0.005	0.01	0.01	0.3	<0.2	<10	10	<0.05	<0.01	0.01	0.01	1.32	0.1	<1
G003441		0.40	<0.005	0.09	1.92	6.1	<0.2	<10	200	1.14	0.42	0.28	0.11	31.90	10.5	24
G003442		0.34	<0.005	0.22	1.63	5.6	<0.2	<10	200	0.51	0.33	0.26	0.24	28.50	83.6	25
G003443		0.26	<0.005	0.10	1.93	4.8	<0.2	<10	160	0.51	0.31	0.31	0.13	24.50	6.8	26
G003444		0.26	<0.005	0.38	1.47	4.9	<0.2	<10	250	0.79	0.30	0.38	0.24	30.80	35.8	20
G003445		0.46	<0.005	0.04	1.59	4.1	<0.2	<10	150	0.77	0.32	0.28	0.16	23.00	8.0	21
G003446		0.34	0.014	0.16	0.49	1.4	<0.2	<10	280	0.56	0.12	0.81	1.12	30.40	2.8	5
G003447		0.36	0.026	0.20	0.66	2.3	<0.2	<10	100	0.26	0.20	0.13	0.30	14.65	2.6	12
G003448		0.38	0.010	0.05	1.31	7.4	<0.2	<10	100	0.43	0.36	0.15	0.12	21.40	7.3	20
G003986		0.30	<0.005	0.29	0.88	2.8	<0.2	<10	130	0.66	0.26	0.23	0.16	18.35	11.9	19
G003987		0.38	<0.005	0.22	0.44	2.9	<0.2	<10	130	0.45	0.09	0.39	0.36	21.00	16.1	4
G003988		0.42	0.012	0.16	0.53	5.8	<0.2	<10	150	0.57	0.12	0.29	0.18	17.45	10.2	8
C271187		0.30	<0.005	0.09	1.72	7.7	<0.2	<10	120	0.47	1.54	0.14	0.26	17.20	5.2	24
C271188		0.44	<0.005	0.11	1.10	3.6	<0.2	<10	110	0.28	0.71	0.11	0.35	11.40	3.5	15
C271189		0.22	<0.005	0.19	0.69	2.6	<0.2	<10	120	0.26	0.47	0.13	0.43	12.80	2.5	14
C271190		0.30	0.006	0.15	0.90	3.8	<0.2	<10	120	0.26	0.67	0.13	0.33	13.60	3.4	14
C271191		0.44	<0.005	0.15	1.46	9.1	<0.2	<10	110	0.42	0.81	0.10	0.17	21.40	6.4	20
C271192		0.42	<0.005	0.07	1.52	7.3	<0.2	<10	90	0.45	0.52	0.20	0.23	27.50	8.3	24
C271193		0.36	0.006	0.36	0.92	3.9	<0.2	<10	190	0.39	0.25	0.29	0.31	22.30	3.0	10
C271194		0.58	0.006	0.12	1.91	3.9	<0.2	<10	200	0.60	0.62	0.25	0.19	28.40	5.8	27
C271195		0.42	<0.005	0.09	1.59	4.3	<0.2	<10	170	1.24	0.56	0.45	0.09	32.80	7.9	20
C271196		0.40	<0.005	0.04	0.28	0.9	<0.2	<10	20	<0.05	0.14	0.05	0.03	3.04	1.3	3
C271197		0.36	0.029	0.08	0.95	5.6	<0.2	<10	80	0.30	0.64	0.19	0.25	17.00	4.6	17
C271198		0.36	<0.005	0.08	0.83	3.6	<0.2	<10	80	0.28	0.60	0.14	0.11	13.40	3.8	15
C271199		0.34	<0.005	0.12	1.14	4.8	<0.2	<10	130	0.58	1.05	0.16	0.26	13.70	4.2	18

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01		
G003425		1.50	6.9	0.81	2.62	0.05	0.02	0.08	0.009	0.10	13.4	7.4	0.10	155	0.83	0.02		
G003426		2.70	11.1	1.87	5.61	0.07	0.07	0.02	0.025	0.08	16.3	29.6	0.55	324	0.31	0.02		
G003427		2.46	11.7	1.58	4.93	0.06	0.03	0.03	0.018	0.05	12.7	25.2	0.33	398	0.52	0.03		
G003428		3.91	17.0	2.75	7.26	0.07	0.03	0.06	0.026	0.08	13.9	27.6	0.52	1895	0.95	0.02		
G003429		2.64	9.6	1.88	5.20	<0.05	0.02	0.04	0.015	0.11	9.1	20.5	0.35	421	0.58	0.02		
G003430		3.10	10.4	2.10	6.46	0.05	0.02	0.04	0.019	0.11	9.6	25.5	0.39	445	0.71	0.02		
G003431		2.09	9.6	2.29	5.89	0.06	0.02	0.03	0.018	0.07	10.6	19.3	0.43	379	0.79	0.02		
G003432		2.37	12.2	2.16	5.51	0.07	0.03	0.05	0.020	0.08	13.1	18.6	0.39	666	0.74	0.01		
G003433		2.39	18.1	2.61	6.94	0.07	0.06	0.10	0.022	0.11	11.6	14.1	0.26	949	1.52	0.02		
G003434		2.34	10.0	1.75	6.06	0.07	0.03	0.04	0.015	0.08	13.1	16.2	0.37	291	0.56	0.01		
G003435		2.41	9.5	1.51	4.35	0.05	0.02	0.11	0.011	0.08	11.1	17.0	0.30	980	0.66	0.02		
G003436		3.87	9.9	2.03	5.82	0.05	0.03	0.06	0.016	0.10	9.6	22.6	0.31	243	0.89	0.01		
G003437		3.67	14.7	3.23	7.06	0.08	0.04	0.05	0.022	0.08	15.2	26.7	0.48	496	1.11	0.01		
G003438		1.76	6.6	1.14	3.95	<0.05	<0.02	0.07	0.009	0.05	5.5	5.7	0.14	147	1.08	0.02		
G003439		3.50	13.8	2.10	7.37	0.05	0.03	0.07	0.018	0.06	11.7	23.7	0.42	276	0.78	0.01		
G003440		<0.05	0.5	0.02	0.07	<0.05	<0.02	<0.01	<0.005	<0.01	0.7	0.2	<0.01	<5	<0.05	<0.01		
G003441		4.18	12.5	2.68	6.13	0.07	0.03	0.05	0.026	0.07	17.4	25.1	0.46	1205	0.77	0.02		
G003442		2.20	13.4	2.98	6.69	0.07	0.02	0.06	0.025	0.07	11.5	17.6	0.45	4720	2.34	0.02		
G003443		3.07	12.3	2.27	6.33	0.07	0.04	0.04	0.022	0.10	13.0	27.2	0.50	240	0.52	0.02		
G003444		2.20	16.7	2.57	5.33	0.07	0.03	0.12	0.026	0.08	14.6	12.1	0.25	2160	1.81	0.03		
G003445		4.09	11.7	2.26	5.99	0.07	0.05	0.02	0.019	0.16	11.6	37.9	0.49	534	0.43	0.01		
G003446		1.03	13.1	0.69	1.72	0.07	0.04	0.15	0.008	0.07	20.9	3.3	0.12	258	0.77	0.02		
G003447		1.47	10.1	1.03	2.88	<0.05	0.02	0.11	0.010	0.06	8.1	3.3	0.09	96	1.08	0.01		
G003448		3.47	11.4	2.45	6.65	0.07	0.03	0.03	0.018	0.12	11.3	29.4	0.36	562	0.97	0.02		
G003986		1.19	10.6	2.08	3.10	0.05	0.02	0.13	0.014	0.04	8.4	5.0	0.10	421	0.97	0.02		
G003987		0.27	15.1	3.53	0.68	0.06	0.02	0.12	0.005	0.03	11.1	0.4	0.05	859	2.69	0.02		
G003988		0.33	11.1	3.70	1.22	0.07	0.02	0.08	<0.005	0.03	10.1	1.1	0.04	602	0.77	0.02		
C271187		1.76	14.2	2.40	8.26	0.05	0.03	0.04	0.017	0.07	9.3	11.4	0.34	169	1.08	0.02		
C271188		1.10	11.9	1.50	5.21	<0.05	<0.02	0.03	0.010	0.05	6.3	7.0	0.21	137	0.60	0.02		
C271189		1.12	10.2	0.92	3.44	<0.05	<0.02	0.04	0.007	0.05	7.0	4.3	0.12	97	0.82	0.02		
C271190		1.12	10.8	1.25	4.45	<0.05	<0.02	0.03	0.008	0.05	7.4	6.2	0.18	124	0.67	0.02		
C271191		3.06	11.7	2.88	9.47	0.07	0.06	0.03	0.023	0.08	11.0	33.7	0.35	269	1.00	<0.01		
C271192		1.84	13.7	2.49	5.64	0.06	0.06	0.02	0.022	0.07	13.3	27.4	0.45	391	0.65	0.01		
C271193		0.53	15.0	2.35	2.35	0.06	0.04	0.09	0.012	0.03	11.7	3.8	0.13	43	0.87	0.01		
C271194		1.45	16.8	1.67	5.84	0.07	0.05	0.10	0.024	0.05	14.7	15.7	0.45	124	0.22	0.01		
C271195		3.82	13.1	2.06	5.33	0.07	0.05	0.04	0.022	0.07	16.9	36.0	0.41	285	0.66	0.01		
C271196		0.42	2.1	0.58	2.47	<0.05	0.02	0.02	<0.005	0.02	1.5	0.8	0.05	37	0.30	0.01		
C271197		1.22	11.5	1.61	4.42	0.05	0.04	0.04	0.016	0.05	8.7	10.0	0.26	194	0.85	<0.01		
C271198		1.70	6.7	1.40	3.92	<0.05	0.02	0.04	0.012	0.06	6.8	10.4	0.23	189	0.66	0.01		
C271199		1.90	9.3	1.52	4.74	<0.05	0.03	0.05	0.015	0.05	7.0	9.8	0.24	140	0.78	0.01		

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41																ME-MS41				ME-MS41			
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	ME-MS41	ME-MS41	ME-MS41	ME-MS41					
G003425		0.60	4.4	1030	4.6	11.7	<0.001	0.09	0.17	0.9	1.0	0.7	22.4	0.01	0.02	<0.2									
G003426		2.06	17.0	750	9.3	17.8	<0.001	0.02	0.34	4.0	0.6	1.4	23.6	<0.01	0.01	5.1									
G003427		1.23	11.6	780	7.0	9.2	<0.001	0.07	0.22	2.4	0.9	1.0	56.5	<0.01	0.02	0.4									
G003428		1.21	18.9	980	13.3	22.4	<0.001	0.09	0.37	2.6	1.0	1.3	29.6	<0.01	0.03	0.6									
G003429		1.09	10.7	780	9.2	24.3	<0.001	0.06	0.25	1.4	0.6	1.2	25.4	<0.01	0.02	0.3									
G003430		1.31	12.7	740	10.7	28.8	<0.001	0.05	0.27	1.7	0.6	1.5	24.3	<0.01	0.02	0.4									
G003431		1.14	12.5	560	8.8	18.5	<0.001	0.05	0.30	2.0	0.6	1.1	19.8	<0.01	0.02	0.4									
G003432		1.35	13.4	950	10.0	18.9	<0.001	0.06	0.34	3.1	0.9	1.3	22.5	<0.01	0.01	0.9									
G003433		1.84	17.2	1370	14.6	23.0	<0.001	0.13	0.53	3.9	1.2	1.3	32.3	<0.01	0.05	0.6									
G003434		1.81	12.6	440	11.1	23.8	<0.001	0.02	0.30	3.1	0.6	1.4	24.5	<0.01	0.01	1.5									
G003435		0.95	10.6	1100	8.2	16.3	<0.001	0.08	0.27	1.2	1.0	0.9	35.7	<0.01	0.01	<0.2									
G003436		1.79	11.5	680	10.2	24.7	<0.001	0.06	0.27	1.7	0.8	1.8	14.9	<0.01	0.02	0.4									
G003437		1.88	17.6	810	12.2	22.3	<0.001	0.06	0.38	3.5	1.0	1.5	23.1	<0.01	0.03	1.1									
G003438		0.65	6.7	780	6.3	8.1	<0.001	0.07	0.23	0.9	0.8	0.8	18.5	<0.01	0.02	<0.2									
G003439		1.56	14.5	900	12.0	13.8	<0.001	0.09	0.32	2.4	0.9	1.5	15.6	<0.01	0.03	0.4									
G003440		<0.05	0.4	20	0.5	0.2	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	0.8	<0.01	<0.01	0.3									
G003441		1.13	15.9	930	12.8	15.0	<0.001	0.07	0.29	2.6	1.0	1.2	21.1	<0.01	0.02	0.9									
G003442		1.04	15.4	930	15.4	15.2	<0.001	0.08	0.43	3.1	0.9	0.9	24.6	<0.01	0.04	0.8									
G003443		1.97	16.0	910	9.5	22.0	<0.001	0.06	0.36	4.2	0.8	1.4	23.9	<0.01	0.01	2.2									
G003444		0.80	12.3	1670	11.3	12.9	<0.001	0.17	0.39	2.6	1.4	0.7	37.0	<0.01	0.02	0.4									
G003445		2.78	12.9	750	9.0	33.8	<0.001	0.02	0.27	4.0	0.5	2.0	19.2	<0.01	0.01	3.0									
G003446		0.74	6.3	1220	3.5	11.6	<0.001	0.19	0.32	1.4	1.4	0.4	76.9	0.01	0.02	0.2									
G003447		0.66	5.8	1040	5.3	9.2	<0.001	0.11	0.24	1.1	0.9	0.6	17.3	<0.01	0.03	<0.2									
G003448		2.91	13.8	600	9.4	25.3	<0.001	0.04	0.38	3.2	0.7	2.2	12.4	<0.01	0.03	3.8									
G003986		0.45	4.5	2080	8.1	6.0	<0.001	0.19	0.20	0.9	1.3	0.5	20.6	<0.01	0.02	<0.2									
G003987		0.23	4.0	1530	1.3	2.4	<0.001	0.19	0.12	1.5	1.4	<0.2	32.5	<0.01	0.02	0.4									
G003988		0.41	4.2	1520	2.1	2.5	<0.001	0.19	0.16	1.0	1.3	0.2	26.4	<0.01	0.02	<0.2									
C271187		1.41	15.0	390	14.4	15.2	<0.001	0.03	0.32	2.6	0.6	0.9	18.0	<0.01	0.04	0.7									
C271188		0.72	8.9	280	9.0	10.5	<0.001	0.02	0.17	1.3	0.4	0.7	13.2	<0.01	0.02	0.2									
C271189		0.44	8.3	540	5.4	9.3	<0.001	0.05	0.18	0.9	0.5	0.5	17.1	<0.01	0.01	<0.2									
C271190		0.71	9.1	390	7.2	10.8	<0.001	0.03	0.20	1.6	0.5	0.6	15.9	<0.01	0.01	0.2									
C271191		3.19	12.5	380	13.6	23.8	<0.001	0.01	0.42	3.1	0.5	2.3	11.2	<0.01	0.06	3.7									
C271192		2.17	16.8	550	9.2	14.6	<0.001	0.01	0.32	3.3	0.6	1.3	14.8	<0.01	0.03	4.4									
C271193		0.57	8.1	1280	4.8	3.5	<0.001	0.13	0.29	1.5	1.5	0.2	35.5	0.01	0.04	0.2									
C271194		1.21	17.1	430	11.4	9.6	<0.001	0.02	0.43	4.6	0.8	0.7	21.7	<0.01	0.03	2.2									
C271195		1.24	14.3	1000	11.4	18.8	<0.001	0.05	0.25	2.6	1.1	1.3	37.9	<0.01	0.02	1.0									
C271196		0.18	1.2	230	2.9	2.0	<0.001	0.01	0.05	0.3	0.3	0.2	7.1	<0.01	0.01	<0.2									
C271197		0.96	11.0	620	7.8	10.4	<0.001	0.04	0.29	1.8	0.8	0.7	16.4	<0.01	0.03	0.6									
C271198		0.66	7.8	440	6.5	11.7	<0.001	0.02	0.21	1.3	0.4	0.7	12.5	<0.01	0.02	0.4									
C271199		0.75	10.5	630	10.3	13.1	<0.001	0.04	0.23	1.5	0.7	0.6	16.2	<0.01	0.02	0.3									

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
G003425		0.033	0.10	7.29	18	0.07	5.66	21	<0.5
G003426		0.113	0.17	6.18	47	0.17	8.10	56	1.9
G003427		0.055	0.15	25.40	34	0.11	7.99	40	0.7
G003428		0.078	0.28	6.08	59	0.21	7.58	68	0.7
G003429		0.066	0.13	3.92	45	0.14	3.65	60	0.5
G003430		0.074	0.16	3.99	51	0.18	3.72	59	0.5
G003431		0.080	0.14	5.47	54	0.20	5.94	52	0.5
G003432		0.076	0.16	6.24	48	0.17	8.29	52	0.6
G003433		0.084	0.18	10.90	68	0.24	10.55	54	2.0
G003434		0.093	0.18	4.68	41	0.19	6.94	48	0.7
G003435		0.047	0.13	9.69	35	0.20	7.66	47	<0.5
G003436		0.065	0.19	5.30	45	0.18	3.87	45	0.7
G003437		0.091	0.23	7.84	59	0.24	8.42	55	1.0
G003438		0.041	0.12	1.02	29	0.12	1.72	20	<0.5
G003439		0.076	0.25	3.86	46	0.22	4.52	40	0.8
G003440		<0.005	<0.02	0.11	<1	<0.05	0.70	3	<0.5
G003441		0.064	0.22	6.99	53	0.19	10.70	53	0.5
G003442		0.077	0.32	2.98	58	0.18	4.97	53	0.6
G003443		0.099	0.18	3.45	46	0.18	6.52	57	1.2
G003444		0.044	0.33	9.61	51	0.15	8.71	40	0.6
G003445		0.118	0.25	3.04	50	0.16	6.81	56	1.4
G003446		0.024	0.08	7.56	12	0.07	13.80	42	0.5
G003447		0.034	0.09	3.74	23	0.10	4.12	20	<0.5
G003448		0.110	0.21	1.71	59	0.25	4.41	48	1.2
G003986		0.017	0.37	10.20	25	0.08	5.03	13	<0.5
G003987		0.009	0.19	10.15	17	0.07	7.35	15	0.5
G003988		0.014	0.15	8.76	18	0.07	9.51	7	<0.5
C271187		0.088	0.13	2.09	63	0.22	4.27	51	0.8
C271188		0.059	0.09	1.84	36	0.13	2.18	37	<0.5
C271189		0.038	0.07	2.08	25	0.11	4.25	26	<0.5
C271190		0.056	0.08	2.12	33	0.13	4.32	31	<0.5
C271191		0.132	0.19	1.88	70	0.22	3.37	47	1.7
C271192		0.110	0.15	1.44	56	0.20	5.27	49	1.4
C271193		0.026	0.07	5.14	19	0.09	8.56	15	<0.5
C271194		0.085	0.15	3.94	44	0.16	7.71	46	0.7
C271195		0.059	0.20	20.80	39	0.16	12.60	48	0.6
C271196		0.031	0.04	0.44	15	0.05	0.62	9	<0.5
C271197		0.060	0.08	1.35	40	0.16	4.48	36	0.6
C271198		0.059	0.08	1.19	37	0.13	3.16	34	<0.5
C271199		0.048	0.11	3.49	35	0.18	4.63	40	0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
C271201		0.44	<0.005	0.07	0.64	3.2	<0.2	<10	50	0.24	0.61	0.06	0.14	10.35	2.8	10
C271202		0.42	<0.005	0.13	1.31	5.8	<0.2	<10	90	0.59	1.50	0.11	0.16	12.10	3.7	18
C271203		0.38	<0.005	0.08	1.00	4.5	<0.2	<10	90	0.36	1.26	0.11	0.14	13.55	3.3	14
C271204		0.48	<0.005	0.04	2.05	10.8	<0.2	<10	80	0.89	3.29	0.10	0.19	24.10	7.2	26
C271205		0.50	<0.005	0.11	0.59	2.2	<0.2	<10	60	0.46	0.80	0.06	0.29	11.10	1.9	8
C271206		0.40	<0.005	0.07	1.89	10.0	<0.2	<10	110	0.94	1.98	0.17	0.39	22.80	12.1	26
C271207		0.38	<0.005	0.05	0.37	1.2	<0.2	<10	60	0.24	0.29	0.07	0.09	8.63	1.8	6
C271208		0.40	<0.005	0.07	0.30	1.0	<0.2	<10	40	0.06	0.23	0.07	0.17	4.15	1.3	6
C271209		0.42	<0.005	0.24	1.31	4.9	<0.2	<10	90	0.38	0.93	0.09	0.26	10.80	6.6	16
C271210		0.38	<0.005	0.08	1.27	6.6	<0.2	<10	70	0.21	0.73	0.07	0.21	13.55	3.5	14
C271211		0.50	<0.005	0.09	2.17	9.6	<0.2	<10	100	0.57	1.48	0.11	0.26	16.00	8.5	25
C271212		0.38	<0.005	0.11	0.26	0.7	<0.2	<10	20	<0.05	0.11	0.04	0.03	3.76	1.1	3
C271213		0.30	<0.005	0.18	0.25	0.6	<0.2	<10	80	0.05	0.11	0.06	0.32	3.29	1.1	5
C271214		0.36	<0.005	0.04	0.19	0.1	<0.2	<10	30	<0.05	0.07	0.04	0.10	3.63	0.9	3
C271215		0.46	<0.005	0.04	1.46	8.5	<0.2	<10	90	0.28	0.55	0.11	0.15	17.25	6.6	20
C271216		0.32	<0.005	0.18	0.39	2.3	0.2	<10	40	0.11	0.29	0.08	0.49	8.25	1.4	8
C271217		0.38	<0.005	0.07	1.16	5.3	<0.2	<10	110	0.24	0.63	0.11	0.12	14.35	5.1	14
C271218		0.42	<0.005	0.46	2.57	10.3	<0.2	<10	310	0.90	1.38	0.29	0.27	26.90	8.5	30
C271219		0.36	<0.005	0.12	1.83	6.8	<0.2	<10	220	0.44	0.71	0.34	0.07	19.45	6.9	24
C271220		0.44	<0.005	0.13	1.84	7.4	<0.2	<10	220	0.41	0.75	0.32	0.07	18.35	6.3	24
C271221		0.56	0.006	0.10	1.79	6.7	<0.2	<10	200	0.52	0.59	0.26	0.27	30.30	8.7	28
C271222		0.22	<0.005	0.09	1.05	3.9	<0.2	<10	120	0.39	0.63	0.19	0.14	17.50	5.0	17
C271223		0.30	<0.005	0.51	1.88	9.0	<0.2	<10	250	0.59	1.29	0.35	0.33	23.20	11.8	30
C271224		0.46	<0.005	0.10	1.66	4.5	<0.2	<10	180	0.34	0.90	0.21	0.19	18.05	6.3	25
C271225		0.50	<0.005	0.08	1.80	7.8	<0.2	<10	170	0.51	0.44	0.27	0.21	29.90	10.2	28
C271226		0.40	<0.005	0.09	1.62	6.0	<0.2	<10	120	0.33	0.71	0.20	0.14	20.00	5.9	25
C271227		0.48	<0.005	0.08	0.78	5.0	<0.2	<10	60	0.20	0.94	0.14	0.24	16.95	3.7	13
C271228		0.66	<0.005	0.06	1.91	7.9	<0.2	<10	120	0.66	0.27	0.28	0.24	31.40	9.9	26
C271229		0.30	0.008	0.39	0.91	6.1	<0.2	<10	330	1.09	0.21	1.00	0.31	59.50	15.5	11
C271230		0.54	<0.005	0.16	1.73	7.1	<0.2	<10	190	0.61	0.42	0.34	0.15	21.40	9.1	26
C271231		0.88	<0.005	0.06	2.01	4.5	<0.2	<10	150	0.61	0.38	0.31	0.12	29.50	7.4	25
C271232		0.62	<0.005	0.11	2.51	6.2	<0.2	<10	210	0.61	0.50	0.38	0.16	27.40	12.9	34
C271233		0.76	<0.005	0.04	1.96	4.3	<0.2	<10	140	0.45	0.32	0.30	0.13	32.70	8.7	28
C271234		0.56	<0.005	0.10	0.80	5.2	<0.2	<10	100	0.29	0.18	0.18	0.12	11.00	8.7	16
C271235		0.70	<0.005	0.05	2.12	9.1	<0.2	<10	120	0.71	0.36	0.16	0.11	22.20	10.6	30
C271236		0.48	<0.005	0.13	2.45	8.4	<0.2	<10	180	1.29	0.41	0.27	0.15	27.00	10.3	31
C271237		0.56	<0.005	0.05	1.80	6.8	<0.2	<10	80	0.47	0.46	0.12	0.15	22.10	6.8	26
C271238		0.48	0.008	0.06	1.11	6.2	<0.2	<10	60	0.24	0.25	0.12	0.11	17.10	4.5	18
C271239		0.44	<0.005	0.06	1.65	7.4	<0.2	<10	160	0.60	0.54	0.28	0.32	28.40	8.6	26
C271240		0.04	<0.005	<0.01	0.01	0.1	<0.2	<10	10	<0.05	0.03	0.01	0.01	1.33	0.1	<1

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41																ME-MS41	ME-MS41	ME-MS41
		Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01				
C271201		1.07	9.5	1.18	4.18	<0.05	0.02	0.012	0.04	5.4	4.4	0.11	102	0.65	0.01					
C271202		2.12	12.7	1.69	5.93	<0.05	0.03	0.020	0.06	6.4	10.1	0.23	181	0.86	0.01					
C271203		1.57	9.7	1.37	5.20	<0.05	0.03	0.013	0.05	6.8	5.5	0.21	107	0.82	0.01					
C271204		3.41	13.2	3.15	8.78	0.07	0.13	0.029	0.06	12.5	18.7	0.41	266	1.42	<0.01					
C271205		1.35	8.1	0.90	3.22	<0.05	0.02	0.010	0.03	5.7	3.0	0.09	57	0.51	0.01					
C271206		2.26	13.9	2.94	6.78	0.06	0.08	0.027	0.07	10.7	21.1	0.41	635	1.05	<0.01					
C271207		0.72	4.6	0.71	2.34	<0.05	0.02	0.006	0.03	4.4	1.5	0.08	53	0.41	0.01					
C271208		0.55	5.2	0.62	2.33	<0.05	<0.02	<0.005	0.03	2.2	0.8	0.05	46	0.39	0.02					
C271209		1.22	10.7	2.10	6.66	<0.05	0.03	0.018	0.05	5.4	9.3	0.16	489	0.81	0.01					
C271210		0.94	9.3	2.22	7.86	<0.05	0.04	0.016	0.03	6.9	8.4	0.13	122	1.01	<0.01					
C271211		2.12	13.9	3.08	8.30	0.06	0.05	0.029	0.06	8.3	18.0	0.35	305	1.29	<0.01					
C271212		0.72	6.0	0.58	2.22	<0.05	<0.02	<0.005	0.02	2.0	0.8	0.05	42	0.27	0.01					
C271213		0.28	8.9	0.46	1.24	<0.05	0.02	0.005	0.03	1.7	0.3	0.02	29	0.35	0.01					
C271214		0.28	2.8	0.49	1.86	<0.05	<0.02	<0.005	0.02	1.9	0.6	0.02	28	0.15	0.01					
C271215		1.71	9.0	2.77	7.98	0.06	0.06	0.019	0.05	8.8	22.3	0.32	284	0.95	<0.01					
C271216		0.73	7.3	0.61	4.16	<0.05	0.02	0.007	0.04	4.2	1.6	0.05	49	0.48	<0.01					
C271217		1.72	7.0	1.89	5.17	<0.05	0.03	0.015	0.06	7.3	17.4	0.25	211	0.60	<0.01					
C271218		2.83	19.2	2.81	7.93	0.07	0.06	0.036	0.08	14.9	21.9	0.38	168	1.46	0.01					
C271219		1.92	10.6	2.17	5.66	0.05	0.04	0.024	0.06	10.2	18.0	0.43	214	0.61	0.01					
C271220		2.02	10.7	2.22	5.90	0.06	0.04	0.025	0.06	9.6	19.2	0.43	180	0.64	0.01					
C271221		1.73	20.7	2.31	5.48	0.08	0.07	0.025	0.06	15.0	24.6	0.52	357	0.59	<0.01					
C271222		1.76	11.0	1.58	4.43	0.05	0.03	0.016	0.06	8.7	14.3	0.28	238	0.66	0.01					
C271223		2.60	17.7	2.69	6.53	0.05	0.03	0.030	0.10	9.7	17.3	0.39	1015	1.94	0.01					
C271224		1.90	10.5	1.81	5.97	0.06	0.03	0.021	0.05	9.3	15.9	0.39	134	0.63	<0.01					
C271225		1.85	19.7	2.52	5.58	0.08	0.04	0.024	0.06	14.7	22.3	0.50	428	0.77	<0.01					
C271226		1.55	11.6	2.01	5.74	0.06	0.04	0.020	0.06	10.2	15.3	0.44	147	0.69	0.01					
C271227		1.21	9.6	1.38	4.18	0.05	0.03	0.011	0.05	8.4	7.5	0.20	162	0.76	<0.01					
C271228		2.83	21.6	2.66	5.77	0.07	0.05	0.026	0.10	15.1	29.6	0.56	408	0.65	0.01					
C271229		0.89	25.0	2.38	2.55	0.12	0.04	0.015	0.05	34.3	4.0	0.16	2680	1.96	0.01					
C271230		4.12	14.3	2.70	7.15	0.06	0.04	0.027	0.12	11.2	28.7	0.38	340	1.11	0.01					
C271231		3.85	13.6	2.16	7.02	0.08	0.04	0.028	0.11	14.5	36.7	0.55	251	0.46	0.01					
C271232		4.81	15.4	3.11	8.36	0.09	0.05	0.033	0.12	13.8	36.5	0.58	670	0.87	0.01					
C271233		2.95	14.6	2.23	6.50	0.07	0.05	0.024	0.08	15.8	30.9	0.57	213	0.38	0.01					
C271234		1.80	10.1	2.10	4.40	<0.05	<0.02	0.012	0.04	4.9	5.4	0.21	1320	1.71	0.01					
C271235		2.82	12.6	3.34	6.46	0.06	0.02	0.028	0.05	10.5	26.1	0.47	713	0.83	<0.01					
C271236		5.57	20.2	3.12	7.61	0.08	0.03	0.030	0.09	13.6	27.9	0.57	631	1.01	0.01					
C271237		4.06	16.0	2.90	8.33	0.06	0.04	0.024	0.06	10.7	26.7	0.43	259	0.96	0.01					
C271238		1.43	10.9	2.23	6.68	0.05	0.02	0.015	0.05	8.2	10.9	0.22	229	0.76	<0.01					
C271239		3.33	18.3	2.79	7.26	0.07	0.04	0.024	0.11	14.1	32.6	0.51	411	0.84	0.01					
C271240		<0.05	0.6	0.02	0.07	<0.05	<0.02	<0.005	<0.01	0.6	0.2	<0.01	<5	0.05	<0.01					

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
C271201		0.63	5.6	270	6.7	9.6	<0.001	0.01	0.17	1.1	0.4	0.5	9.3	<0.01	0.03	0.3
C271202		0.61	10.0	480	14.5	11.9	<0.001	0.02	0.21	1.1	0.6	0.6	12.6	<0.01	0.04	<0.2
C271203		0.70	8.2	280	9.7	9.1	<0.001	0.01	0.21	1.5	0.5	0.6	14.0	<0.01	0.03	0.2
C271204		1.88	15.5	290	19.6	19.6	<0.001	<0.01	0.41	4.0	0.6	1.0	11.6	<0.01	0.05	4.1
C271205		0.32	4.5	340	7.2	7.3	<0.001	0.02	0.11	0.7	0.6	0.3	10.4	<0.01	0.03	<0.2
C271206		1.59	17.7	560	19.3	16.4	<0.001	0.01	0.40	3.4	0.7	0.7	15.8	<0.01	0.05	3.8
C271207		0.29	2.8	210	3.5	5.9	<0.001	<0.01	0.11	0.8	0.3	0.3	10.4	<0.01	0.02	<0.2
C271208		0.19	2.4	220	2.8	2.1	<0.001	0.01	0.08	0.4	0.1	0.2	10.8	<0.01	0.01	<0.2
C271209		1.18	9.1	340	11.8	11.2	<0.001	0.02	0.27	1.8	0.6	0.8	11.9	<0.01	0.04	0.6
C271210		1.53	6.5	270	10.1	7.0	<0.001	0.01	0.32	1.7	0.5	0.8	9.8	<0.01	0.03	1.4
C271211		1.71	15.8	450	17.4	15.7	<0.001	0.01	0.39	3.1	0.7	0.8	12.9	<0.01	0.04	1.9
C271212		0.29	1.3	130	2.3	3.7	<0.001	<0.01	<0.05	0.6	0.2	0.2	6.8	<0.01	0.01	<0.2
C271213		0.15	3.3	490	2.4	1.7	<0.001	0.03	0.06	0.6	0.5	0.2	11.9	<0.01	0.01	<0.2
C271214		0.07	1.1	210	1.5	2.7	<0.001	<0.01	<0.05	0.3	0.2	0.2	7.6	<0.01	0.01	<0.2
C271215		2.39	12.9	310	9.9	11.0	<0.001	0.01	0.36	2.6	0.6	1.3	12.0	<0.01	0.04	2.8
C271216		0.54	3.4	580	5.8	5.5	<0.001	0.03	0.22	0.6	0.6	1.0	9.4	<0.01	0.03	<0.2
C271217		1.18	10.1	380	8.5	14.3	<0.001	0.01	0.21	1.9	0.4	1.0	10.8	<0.01	0.03	0.8
C271218		1.49	20.5	1300	14.7	18.1	<0.001	0.07	0.42	3.9	1.3	1.1	32.5	<0.01	0.04	0.7
C271219		1.14	14.6	750	10.7	11.2	<0.001	0.04	0.25	2.8	0.9	0.9	27.6	<0.01	0.02	0.7
C271220		1.19	15.0	760	11.0	11.9	<0.001	0.03	0.26	2.8	0.8	1.0	26.1	<0.01	0.03	0.7
C271221		1.43	20.9	650	10.4	13.8	<0.001	<0.01	0.38	4.9	0.7	0.9	19.6	<0.01	0.03	3.8
C271222		0.86	10.4	510	7.7	13.8	<0.001	0.02	0.24	1.9	0.6	0.7	15.8	<0.01	0.02	0.5
C271223		1.43	16.2	1490	15.7	20.7	<0.001	0.13	0.56	3.6	0.9	1.0	28.3	<0.01	0.04	0.5
C271224		0.81	15.5	710	12.3	10.4	<0.001	0.03	0.33	2.3	0.8	0.7	19.1	<0.01	0.02	0.4
C271225		1.17	19.6	800	9.1	12.4	<0.001	<0.01	0.42	3.8	0.8	0.8	19.5	<0.01	0.03	2.0
C271226		1.10	15.6	630	12.0	10.1	<0.001	0.03	0.35	2.7	0.9	0.7	17.2	<0.01	0.03	0.8
C271227		0.69	9.1	370	7.1	10.7	<0.001	0.01	0.23	1.2	0.5	0.7	13.1	<0.01	0.03	0.4
C271228		2.16	22.1	870	11.8	22.1	<0.001	0.02	0.41	4.1	0.8	1.3	17.2	<0.01	0.02	3.7
C271229		0.53	8.7	2100	7.0	7.1	<0.001	0.26	0.44	2.0	2.4	0.3	81.0	0.01	0.07	0.4
C271230		2.41	12.6	1490	10.5	26.8	<0.001	0.10	0.33	3.9	1.1	2.3	25.9	<0.01	0.03	0.8
C271231		2.67	16.3	900	11.3	27.3	<0.001	0.02	0.36	4.5	0.7	1.9	18.0	<0.01	0.02	4.4
C271232		2.60	21.4	820	13.9	34.9	<0.001	0.05	0.40	5.9	0.9	2.0	27.9	<0.01	0.03	3.3
C271233		2.24	18.6	690	11.2	19.2	<0.001	0.01	0.38	4.4	0.6	1.5	18.7	<0.01	0.03	4.8
C271234		0.32	8.5	1030	5.1	10.7	<0.001	0.11	0.26	0.8	0.7	0.6	20.1	<0.01	0.03	<0.2
C271235		1.23	17.8	720	11.7	12.5	<0.001	0.05	0.31	2.6	0.9	1.0	14.2	<0.01	0.03	1.0
C271236		1.63	22.1	910	16.9	24.4	<0.001	0.05	0.38	4.1	0.9	1.5	20.6	<0.01	0.03	1.7
C271237		2.77	17.0	370	12.4	20.4	<0.001	0.04	0.35	3.4	0.7	1.7	13.0	<0.01	0.04	2.8
C271238		2.17	10.7	460	9.3	9.4	<0.001	0.04	0.35	2.0	0.6	1.3	10.3	0.01	0.03	1.5
C271239		2.39	19.6	620	10.1	25.6	<0.001	0.04	0.36	3.5	0.8	1.6	25.5	<0.01	0.03	2.3
C271240		<0.05	0.4	20	0.6	0.2	<0.001	0.01	<0.05	0.1	<0.2	<0.2	0.7	<0.01	<0.01	0.2

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
C271201		0.057	0.07	0.92	33	0.15	2.38	22	<0.5
C271202		0.047	0.11	5.92	40	0.16	4.18	36	<0.5
C271203		0.063	0.09	2.61	38	0.15	4.18	32	<0.5
C271204		0.092	0.15	4.52	77	0.26	7.33	53	3.6
C271205		0.034	0.05	2.70	22	0.09	4.65	17	<0.5
C271206		0.083	0.11	2.49	61	0.24	5.26	57	2.1
C271207		0.038	0.04	1.61	18	0.07	4.20	14	<0.5
C271208		0.033	0.04	0.35	18	0.05	0.81	10	<0.5
C271209		0.066	0.10	0.76	49	0.16	1.77	32	0.5
C271210		0.075	0.09	0.49	69	0.19	1.55	30	0.9
C271211		0.085	0.13	1.90	67	0.29	2.91	51	1.3
C271212		0.036	0.03	0.83	15	0.05	0.63	10	<0.5
C271213		0.024	0.03	0.34	13	<0.05	0.69	10	<0.5
C271214		0.023	0.02	0.17	15	<0.05	0.36	9	<0.5
C271215		0.103	0.12	0.59	66	0.18	2.39	40	1.6
C271216		0.042	0.05	0.46	23	0.10	0.97	22	<0.5
C271217		0.069	0.12	0.95	43	0.14	2.84	39	<0.5
C271218		0.059	0.26	9.78	63	0.27	9.95	57	1.0
C271219		0.062	0.19	4.56	47	0.17	5.78	46	0.6
C271220		0.061	0.17	3.95	48	0.36	5.54	48	0.6
C271221		0.092	0.15	3.12	52	0.29	8.14	65	1.6
C271222		0.062	0.11	2.91	37	0.15	4.51	38	0.5
C271223		0.055	0.25	6.85	66	0.23	7.54	62	1.1
C271224		0.060	0.18	3.95	39	0.33	4.25	51	<0.5
C271225		0.088	0.14	2.82	55	0.23	7.77	60	0.8
C271226		0.074	0.15	2.03	42	0.28	4.67	54	0.9
C271227		0.054	0.08	1.10	37	0.19	3.22	35	<0.5
C271228		0.115	0.20	4.09	58	0.22	7.30	67	1.5
C271229		0.021	0.35	28.40	38	0.14	20.50	21	0.6
C271230		0.068	0.29	8.13	58	0.19	6.79	45	1.2
C271231		0.120	0.27	3.52	56	0.17	7.75	55	1.6
C271232		0.121	0.30	3.85	67	0.25	6.79	72	1.8
C271233		0.121	0.22	2.48	56	0.20	7.04	57	1.5
C271234		0.029	0.10	3.14	48	0.08	2.22	29	<0.5
C271235		0.076	0.18	5.46	60	0.18	4.67	59	0.8
C271236		0.084	0.25	6.56	64	0.31	7.44	69	0.9
C271237		0.131	0.21	1.77	72	0.21	3.06	50	1.5
C271238		0.109	0.11	0.67	62	0.21	2.38	38	0.9
C271239		0.129	0.20	2.40	67	0.24	5.79	63	1.4
C271240		<0.005	<0.02	0.12	<1	<0.05	0.69	3	<0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
C271241		0.36	<0.005	0.06	1.91	7.0	<0.2	<10	140	1.21	0.41	0.23	0.18	34.60	8.9	25
C271242		0.40	<0.005	0.09	1.05	4.3	<0.2	<10	70	0.25	0.40	0.09	0.13	21.20	3.4	13
C271243		0.48	<0.005	0.14	2.25	6.4	<0.2	<10	200	1.84	0.55	0.48	0.10	39.00	8.8	27
C271244		0.34	<0.005	0.13	0.93	5.4	<0.2	<10	50	0.20	0.32	0.13	0.16	21.10	4.8	18
C271245		0.44	0.007	0.12	2.44	9.0	<0.2	<10	160	1.43	0.60	0.21	0.12	26.10	8.1	31
C271246		0.34	<0.005	0.35	1.47	5.3	<0.2	<10	190	0.92	0.45	0.27	0.48	21.70	11.9	23
C271247		0.42	<0.005	0.13	2.24	7.9	<0.2	<10	150	0.90	0.46	0.23	0.11	22.80	8.8	31
C271248		0.52	<0.005	0.07	2.19	7.3	<0.2	<10	170	1.17	0.57	0.25	0.09	37.90	12.8	29
C271249		0.32	<0.005	0.15	1.77	6.2	<0.2	<10	320	0.68	0.40	0.25	0.17	33.40	48.4	24
C271250		0.28	<0.005	0.17	1.71	6.4	<0.2	<10	420	0.72	0.39	0.27	0.21	38.70	64.3	24

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509																
Sample Description	Method Analyte Units LOR	ME-MS41														
		Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01
C271241		6.29	19.0	3.01	7.34	0.07	0.03	0.04	0.031	0.11	15.1	30.7	0.52	490	0.76	0.01
C271242		2.06	11.5	2.12	10.85	0.05	0.02	0.02	0.016	0.04	10.3	9.3	0.11	142	1.15	<0.01
C271243		7.98	23.2	3.05	8.88	0.08	0.03	0.05	0.035	0.12	20.7	35.5	0.57	422	0.93	0.01
C271244		2.09	12.9	1.86	6.62	0.05	0.04	0.04	0.016	0.06	10.4	11.5	0.26	177	0.79	0.01
C271245		6.76	21.4	3.06	8.16	0.08	0.03	0.07	0.035	0.10	12.9	32.8	0.54	278	1.15	0.01
C271246		3.78	16.0	2.16	5.32	0.05	0.02	0.07	0.026	0.06	8.8	12.2	0.30	2170	1.50	0.01
C271247		4.80	14.6	2.88	7.22	0.07	0.02	0.06	0.029	0.07	11.6	22.8	0.52	358	1.05	<0.01
C271248		5.45	13.6	3.40	7.10	0.08	0.03	0.06	0.030	0.06	18.2	30.0	0.50	808	0.87	0.01
C271249		3.21	10.3	6.11	6.21	0.10	0.02	0.08	0.023	0.05	11.7	22.0	0.35	5100	1.37	0.01
C271250		2.95	11.2	6.05	6.05	0.10	0.02	0.11	0.023	0.05	12.4	18.8	0.32	8910	1.52	0.01

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509																													
Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb ppm 0.05	Ni ppm 0.2	P ppm 10	Pb ppm 0.2	Rb ppm 0.1	Re ppm 0.001	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 0.2	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2													
C271241		2.06	19.1	790	17.2	26.6	<0.001	0.04	0.37	3.8	0.9	17.9	<0.01	0.03	2.8														
C271242		2.42	6.8	340	13.3	9.2	<0.001	0.04	0.38	1.9	0.5	10.3	<0.01	0.03	2.0														
C271243		2.20	19.1	860	23.6	38.2	<0.001	0.08	0.32	4.3	1.2	32.3	<0.01	0.04	2.0														
C271244		2.44	12.1	470	9.5	14.7	<0.001	0.03	0.34	2.5	0.6	12.4	<0.01	0.03	2.5														
C271245		2.13	23.0	870	19.9	26.8	<0.001	0.08	0.41	4.0	1.1	18.7	<0.01	0.02	1.2														
C271246		0.75	13.6	1430	15.0	18.4	<0.001	0.15	0.31	1.9	1.1	25.4	<0.01	0.05	0.2														
C271247		1.30	20.6	910	17.0	19.8	<0.001	0.08	0.36	3.3	1.1	18.9	<0.01	0.02	0.8														
C271248		1.41	18.9	900	18.7	19.8	<0.001	0.05	0.28	4.1	1.0	16.9	<0.01	0.02	2.0														
C271249		0.97	14.3	1050	12.4	10.7	<0.001	0.11	0.27	3.3	1.2	22.1	<0.01	0.03	0.7														
C271250		0.79	13.9	1210	12.3	10.3	<0.001	0.12	0.28	3.2	1.4	23.8	<0.01	0.04	0.6														

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



Project: North Dawson / Echo

CERTIFICATE OF ANALYSIS VA07074509

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
C271241		0.101	0.19	3.30	63	0.19	6.35	82	1.1
C271242		0.121	0.12	0.82	81	0.15	2.05	27	0.9
C271243		0.070	0.30	4.95	62	0.20	9.07	68	0.8
C271244		0.098	0.15	1.20	58	0.21	3.20	37	1.2
C271245		0.077	0.34	7.27	64	0.44	8.17	64	1.1
C271246		0.046	0.41	9.13	49	0.20	6.92	40	0.5
C271247		0.071	0.23	6.26	62	0.25	6.52	61	0.8
C271248		0.067	0.27	12.20	60	0.21	9.62	61	0.6
C271249		0.045	0.52	8.59	39	0.17	6.68	45	<0.5
C271250		0.044	0.51	10.15	39	0.14	7.16	42	<0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

Appendix D: Quality Assurance Quality
Control

QUALITY CONTROL / QUALITY ASSURANCE

I. Chain of Custody

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. Rice sacks were trucked to ALS Chemex Labs Ltd. in North Vancouver, an ISO 9001 registered laboratory. ALS Chemex reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

II. Blanks

Blanks are samples which are known to be barren of mineralization and are inserted into the sample stream in the field to determine whether contamination has occurred after sample collection. Field blanks for core and soils are plotted on log scales of the resultant concentration for each blank sample processed. The dashed line indicates the lower limit of detection for the element indicated. Blank material comprised commercially available silica silt from the same company that supplies ALS Chemex Labs with their blank material.

a. Soil Sample Field Blanks

A total of 5 (3.8% of sample total) soil blanks were inserted into the sample sequence (approximately every 20th sample) and submitted for analysis. Blank samples are shown in the table below. Negative signs indicate concentrations were below detection. All five samples returned below detection gold and very low to below detection values for other base metals of interest and select elements typically occurring in abundance in primary rock forming minerals (eg. Al, Ca, K, Na). These results indicate there was no contamination throughout the collection and processing of samples

Table D-1: Soil Sample Field Blanks

SAMPLE	Au (ppb)	Ag (ppm)	Al (%)	As (ppm)	Bi (ppm)	Ca (%)	Cu (ppm)	K (%)	Mg (%)	Mo (ppm)	Na (%)	Pb (ppm)	S (%)
C271240	-5	-0.01	0.01	0.1	0.03	0.01	0.6	-0.01	-0.01	0.05	-0.01	0.6	0.01
G002820	-5	0.01	0.01	-0.1	0.01	0.01	0.8	-0.01	-0.01	0.05	0.02	0.9	0.01
G002860	-5	-0.01	0.01	-0.1	-0.01	-0.01	0.6	-0.01	-0.01	-0.05	-0.01	0.5	-0.01
G003300	-5	0.04	-0.01	-0.1	0.01	0.01	0.6	-0.01	-0.01	-0.05	-0.01	0.7	-0.01
G003440	-5	0.01	0.01	0.3	-0.01	0.01	0.5	-0.01	-0.01	-0.05	-0.01	0.5	0.01

III. Field Duplicate Analysis

Field duplicates are collection and analysis of two separate samples from the same field location or core interval. They are used to measure the reproducibility of sampling, which includes both laboratory variation and sample variation.

a. Soil Sample Field Duplicates

A total of 4 field duplicate pair soil samples were collected (approximately every 20th sample) during the 2007 program and submitted for analysis. The paired data were plotted to determine precision following the procedures of Thompson and Howarth (1978). Soil samples in this dataset returned below detection Au, however, most metals of interest and associated pathfinder elements such as Bi and As were reproducible at 10-30% precision. Ag was reproducible at 20% precision, Cu at 10% precision while As and Bi were reproducible at 30% precision. A precision of 20% is typically desirable thus the reproducibility of soil samples from the Echo properties are adequate.

IV. Lab Duplicate Analysis

Lab duplicates are separate analyses of two portions of a prepared sample. They are used to measure the reproducibility of laboratory analyses. ALS Chemex Labs conducts duplicate analyses of random samples at varying frequencies depending on the particular sample preparation code. For

example, the standard ICP analysis that was conducted on all samples is run in batches of 40 samples—one of which will be duplicated. Other analyses, such as fire assays of Au, are run in larger batches with more frequent duplicates (approximately one in 10). Thompson and Howarth (1976, 1978) demonstrated that the analytical precision of a dataset can be estimated by duplicate analyses. They established graphical representations of the precision that is effective for datasets of 10 to 50 samples and greater than 50 samples.

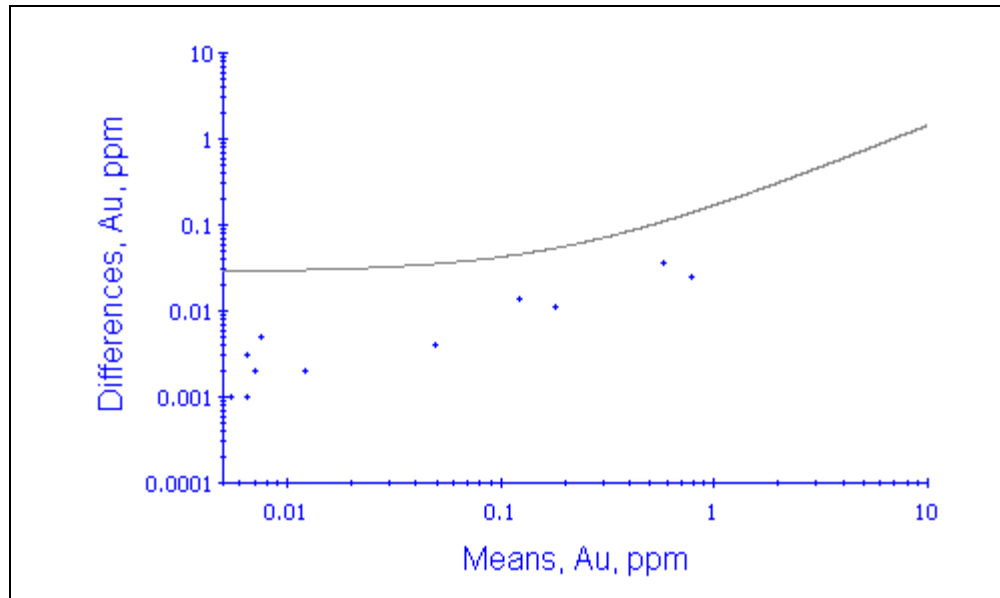


Figure D-1: Thompson and Howarth duplicate precision control chart for all lab duplicates submitted during the period July 2nd to August 7th.

Duplicate data taken from the ALS Chemex Webtrieve service for the period July 2nd to August 7th (encompasses sample submittal period) indicate that all lab duplicate analysis fall within the acceptable limits for reproducibility (Figure D-1). This indicates that the pulping process during sample preparation sufficiently homogenized the samples.

V. Analytical Interferences

Certificate #VA07078220 for rock samples indicates interference was encountered for Cd values on samples where Mo exceeded 400 ppm. Fortunately, none of the rock samples from the Echo property included on this certificate returned values greater than 400 ppm for Mo.

VI. Conclusions

- There is no evidence of tampering with the samples between collection and the laboratory.
- There was no contamination of samples collected from the Echo property.
- Soil collected from the Echo Property appears to be well homogenized with reproducible geochemical results.

Appendix E: Geologist's Certificate

GEOLOGISTS CERTIFICATE

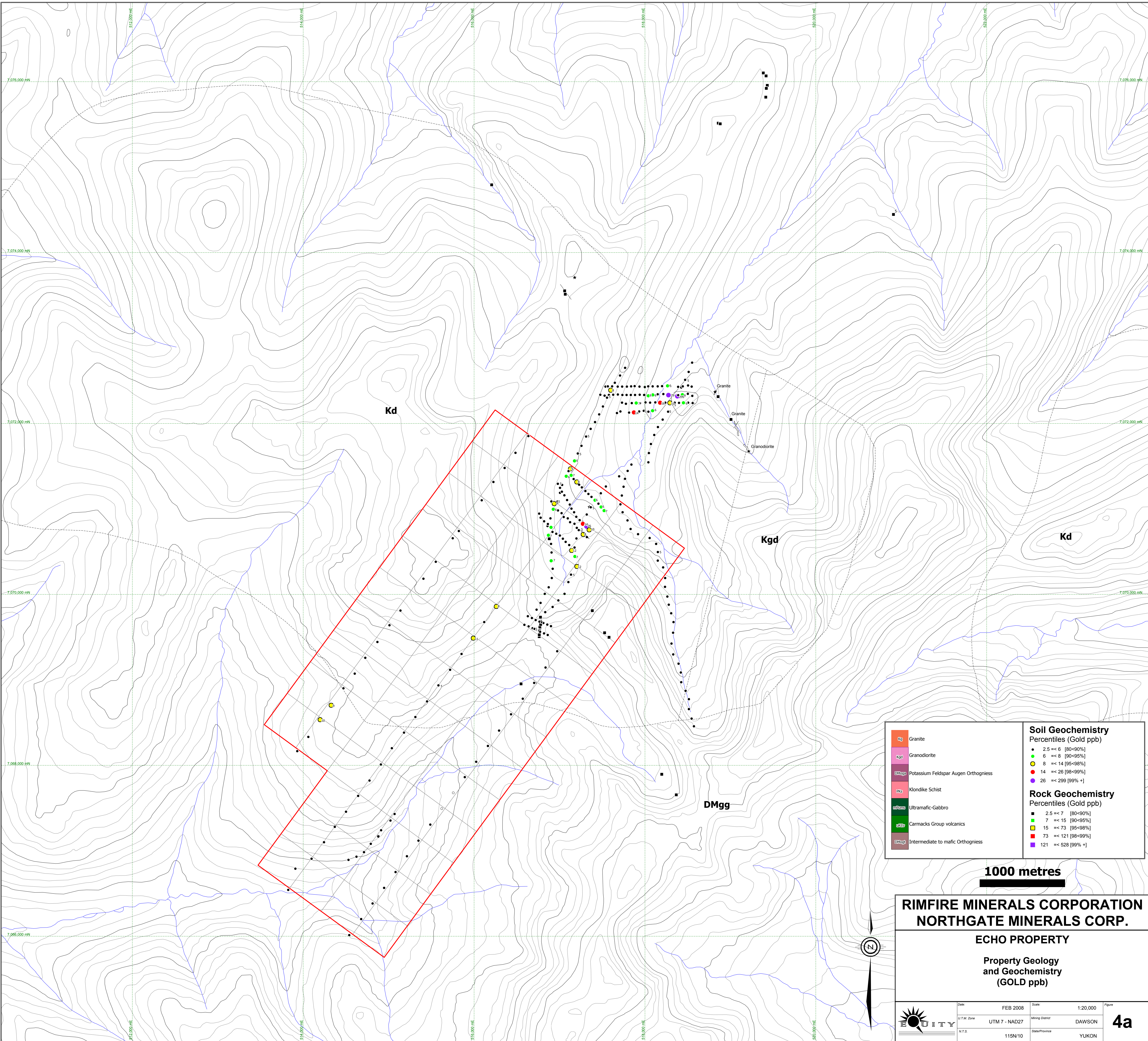
I, Robin S. Black, of PH4-869 Beatty St., Vancouver, in the Province of British Columbia, DO
HEREBY CERTIFY:

1. THAT I am a Consulting Geoscientist with offices at Suite 700, 700 West Pender Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of Victoria with an Honours Bachelor of Applied Science degree in Earth Sciences and am a graduate of Acadia University (2005) with a Masters degree in geology and have practiced my profession continuously since 2001.
3. THAT I am presently a Consulting Geologist and have been since April 2006
4. That I am registered as a G.I.T. in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
5. THAT this report is based on fieldwork carried out by me or under my direction in July 2007, on publicly available reports and on historical data provided to me by previous operators of the Echo property. I have examined the property in the field.

DATED at Vancouver, British Columbia, this 20th day of February, 2008.



Robin S. Black G.I.T.



Kg

Granite

Kgd

Granodiorite

DMggg

Potassium Feldspar Augen Orthogneiss

PKS

Klondike Schist

Ug

Ultramafic-Gabbro

UgV

Carmacks Group volcanics

DMggg

Intermediate to mafic Orthogneiss

Soil Geochemistry
Percentiles (Gold ppb)

●

2.5 =< 6 [80<90%]

●

6 =< 8 [90<95%]

●

8 =< 14 [95<98%]

●

14 =< 26 [98<99%]

●

26 =< 299 [99% +]

Rock Geochemistry
Percentiles (Gold ppb)

■

2.5 =< 7 [80<90%]

■

7 =< 15 [90<95%]

■

15 =< 73 [95<98%]

■

73 =< 121 [98<99%]

■

121 =< 528 [99% +]

1000 metres

RIMFIRE MINERALS CORPORATION
NORTHGATE MINERALS CORP.
ECHO PROPERTY
Property Geology and Geochemistry (GOLD ppb)

Date: FEB 2008

UTM Zone: UTM 7 - NAD27

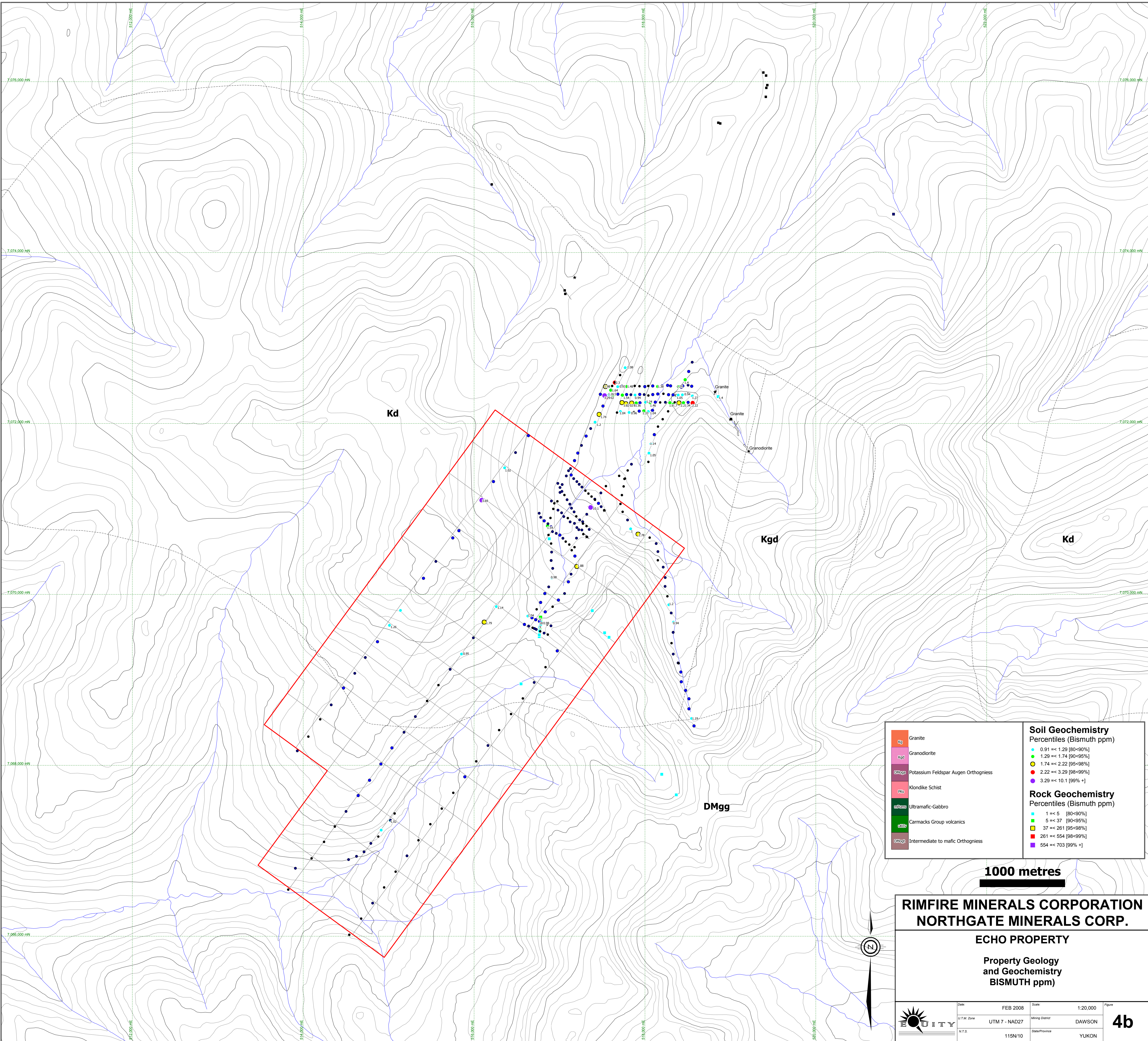
N.T.S.

Scale: 1:20,000

Mining District: DAWSON

State/Province: 115N/10

Figure: 4a



Kg

Granite

Kgd

Granodiorite

DMgs

Potassium Feldspar Augen Orthogneiss

PKs

Klondike Schist

DMgs

Ultramafic-Gabbro

DMgs

Carmacks Group volcanics

DMgs

Intermediate to mafic Orthogneiss

Soil Geochemistry
Percentiles (Bismuth ppm)

0.91 <= 1.29 [80<90%]

1.29 <= 1.74 [90<95%]

1.74 <= 2.22 [95<98%]

2.22 <= 3.29 [98<99%]

3.29 <= 10.1 [99%+]

Rock Geochemistry
Percentiles (Bismuth ppm)

1 <= 5 [80<90%]

5 <= 37 [90<95%]

37 <= 261 [95<98%]

261 <= 554 [98<99%]

554 <= 703 [99%+]

1000 metres

**RIMFIRE MINERALS CORPORATION
NORTHGATE MINERALS CORP.**
ECHO PROPERTY
**Property Geology
and Geochemistry
BISMUTH ppm)**

Date: FEB 2008

UTM Zone: UTM 7 - NAD27

N.T.S.

Scale: 1:20,000

Mining District: DAWSON

State/Province: YUKON

Figure: **4b**