

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Recon. Geochemical Survey of Dease Lime Property TOTAL COST: \$7855

AUTHOR(S): J. Erik Scheel
Greg Ross

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 4310688

YEAR OF WORK: 2009

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): _____

PROPERTY NAME: Dease Lime

CLAIM NAME(S) (on which the work was done): Dease Lime 1, Dease Lime 2, Dease Lime 3
(590388, 590390, 590395)

COMMODITIES SOUGHT: carbonate

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Liard

NTS/BCGS: 1041

LATITUDE: 58 ° 23 ' 39 " LONGITUDE: 129 ° 40 ' 51 " (at centre of work)

OWNER(S):

1) Hard Creek Nickel Corp.

2) _____

MAILING ADDRESS:

1060 - 1090 West Georgia St.

Vancouver, BC V6E 3V7

OPERATOR(S) [who paid for the work]:

1) Hard Creek Nickel Corp.

2) _____

MAILING ADDRESS:

as above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

carbonate, marble, limestone

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL (number of samples analysed for...)			
Soil _____			
Silt _____			
Rock 35 samples whole rock 45+ elements		590388, 590390, 590395	\$7855
Other _____			
DRILLING (total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____			
PREPARATORY / PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST:			\$7855

BC Geological Survey
Assessment Report
31067

Title: Reconnaissance Rock Geochemical Survey of the Dease Lime Property

Claims Worked: Lime 1, Lime 2 and Lime 3

Record Numbers: 590388, 590390, and 590395

Mining Division: Liard

NTS Map Sheets: 104I

Mineral Titles Reference Map: 104I032, 104I042

Latitude: 58° 23' 39" N

Longitude: 129° 40' 51" W

Claim Owner: Hard Creek Nickel Corp.

Consultants Involved: None

Date Submitted: September 16, 2009

Authors: J. E. Scheel, G. P. Ross

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1. Summary

The Dease Lime claims, located at Lat. 58°23'39" N and Long. 129°40'51" W in north-central BC (Figure 1), are 100% owned by Hard Creek Nickel Corp. A prospecting and rock geochemical sampling program conducted in summer 2009 concluded that there exists a carbonate body of appropriate composition and size to potentially be of use in future metallurgical processes at the proposed Turnagain Mill.

Given the encouraging results of the reconnaissance in 2009, it is recommended that a more detailed sampling program be conducted over the entire aerial extent of the carbonate, coupled with a mapping program designed to determine any structures that may exist in the carbonate body that may affect its mineability. In addition, it is recommended that attention be paid to limestone outcrops west of the Dease Lime as they may be part of a continuous limestone body. Extensive definition drilling will be required if the carbonate body is to be mined.

2. Introduction

The Dease Lime claims (Figure 2) were staked by Hard Creek Nickel Corp. in 2008, partly on the basis of regionally mapped limestone, marble and calcareous sedimentary rocks of the Upper Triassic Sinwa Formation of the Cache Creek Terrane (Gabielse, 1998), and by reason of the visual identification by Hard Creek Nickel Corp. employees of series of large outcrops of limestone or marble on numerous flybys between the company's Turnagain Nickel Project and the community of Dease Lake. The prospect of a proximal source of metallurgical limestone or marble for use as a mill additive at the proposed Turnagain Mill warranted the staking and investigation of the ground. The claims are 100% owned and operated by Hard Creek Nickel Corp.

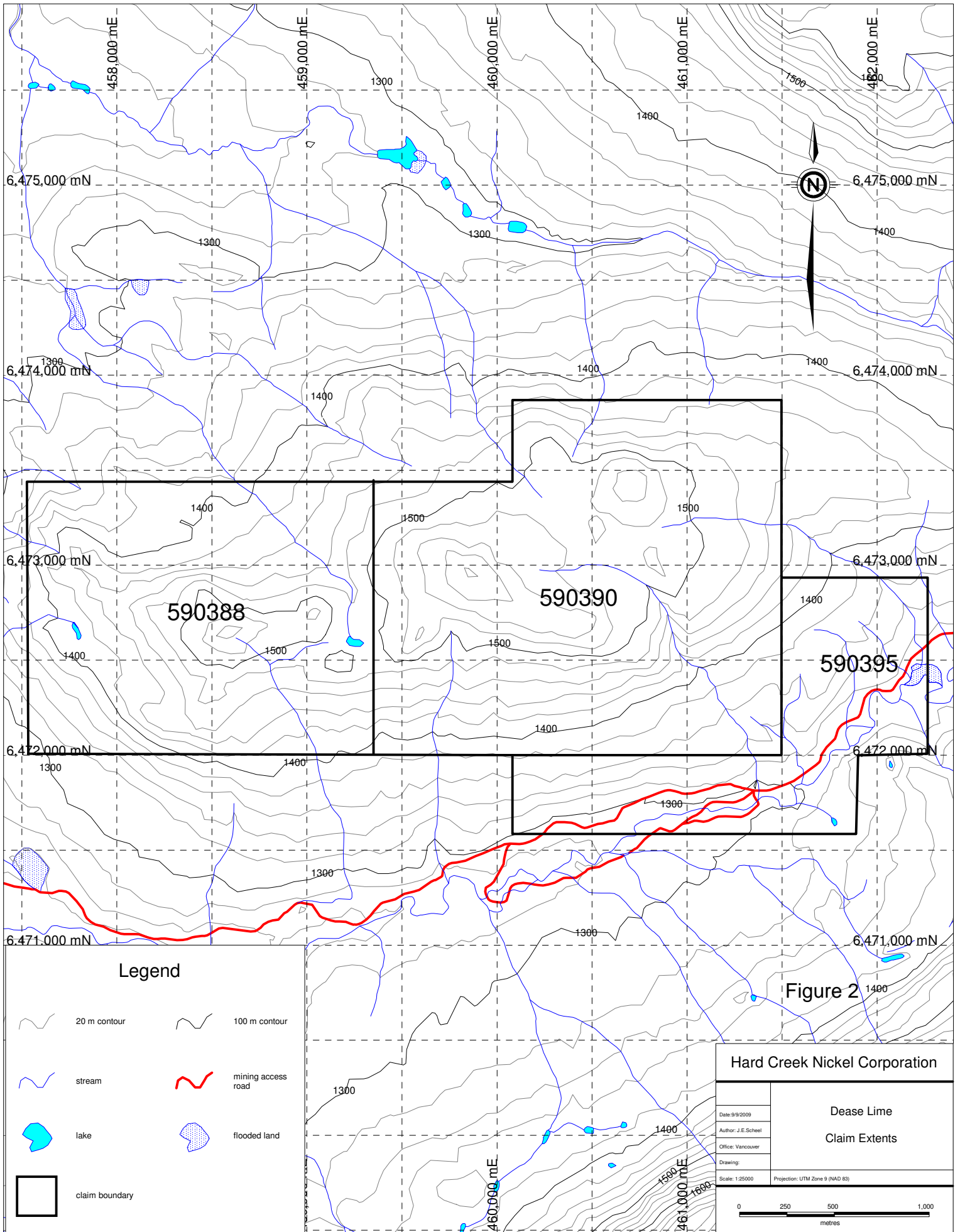
This report describes a reconnaissance rock geochemical survey conducted by Hard Creek Nickel Corp. on 29 and 30 June 2009.

3. Property Description and Access

The Dease Lime claims are located in north-central British Columbia, 18 km east-southeast of the community of Dease Lake and 1101 km north-northwest of the city of Vancouver. Consisting of three contiguous electronically acquired claims, the Dease Lime claims cover 780 ha, with elevations ranging from below 1300 m to just over 1580 m. Lower elevations are dominated by shrubs, grasses, and balsam, but a significant portion of the claims cover the extent of three discreet peaks on which outcrop exposure is good. The majority of the claims can be easily traversed, especially the area above treeline, but the southern and northeastern flanks are steep and heavily overgrown.



Figure 1



Access to the claims is by helicopter from Dease Lake, although there exists a mining access road that runs from just south of Dease Lake on BC HWY 37 to various exploration and mining projects to the east, which crosses through the southern part of the Dease Lime claims.

4. Regional Geology

The Dease Lime claim group covers a large exposure of the Sinwa Formation in the Cache Creek Terrane of the Canadian Cordillera. The Sinwa Formation is described as massive, recrystallized, and strongly fractured limestone, which weathers light grey, may be strongly brecciated, and contains detrital quartz and very rare corals (Gabrielse, 1998). The Cache Creek Terrane can broadly be described as an accreted package of variably metamorphosed oceanic volcanic and sedimentary rocks. The Sinwa Formation overlies the Inklin Formation, which is immediately to the north of the claim group, and is proximal to (in the vicinity of the claims) the Kutcho Formation, the namesake of the Kuroko-type VMS deposit east of Kutcho Creek. A small ultramafic body, known as Tanzilla Butte, is 10 km west of the Dease Lime claims. The limestone in the Dease Lime claims is truncated at its southern extent by the King Salmon fault, a regional reverse fault that separates Cache Creek to the north from Stikinia to the south.

5. Property Geology

Bedrock exposed at the Dease Lime claims consists almost exclusively of fine- to coarse-grained limestone with a variable, but generally quite small, component of argillaceous minerals, and a light to dark gray fresh surface. Some local rusty-weathering is apparent. This limestone is exposed near the top of three peaks in the claim group, but also in cliffy knobs along the southern margin of the bedrock exposure. Smaller outcrops may be found in stream beds or on the margins of formerly-glaciated valleys. The various ridges extending towards the west northwest likely contain a buried spine of limestone.

6. Previous Work

Prospecting has been active in this region of the Cassiar Range since at least the 1960s. Several past- and currently-producing placer gold mines are in the area, as well as operating jade mines and numerous other jade, copper and asbestos showings and prospects. Directly to the north are a copper-zinc showing and a gold showing, hosted in Sinwa and Inklin rocks, respectively. There is no known previous work on the Dease Lime claims themselves.

7. 2009 Prospecting and Rock Geochemical Sampling Program

A two-day reconnaissance trip to the property was made on 29 and 30 June 2009 by Hard Creek Nickel Corp. geologists Greg Ross and Erik Scheel. The purpose of the trip was to determine whether the limestone or marble that had been noticed on numerous flybys between Hard Creek Nickel Corp.'s Turnagain Project and the town of Dease Lake would be of suitable abundance and composition to be of possible use in future metallurgical processes at the proposed Turnagain Mill. Detailed mapping was not the focus of the trip, rather, the goal was to determine the extent of the carbonate unit and to collect a number of samples for analysis to determine the purity of the limestone and, if possible, to identify any undesirable components such as clays, graphite and silicates.

A total of 35 samples (Figure 3) were collected for description and analysis. Locations of samples are included in Appendix I, and analytical results can be viewed in Appendix II. The only visible contaminant in the limestone, present in few of the samples, was weak iron oxide staining.

8. Results and Conclusions

The analytical results suggest that the majority of exposed carbonate at Dease Lime is calcite. Modal analysis of the results (Table 1) indicates that only two samples fall below a 95 % calcite cutoff; sample 178317 contains appreciable magnesium (calculated into dolomite) and sample GPR-DL09 has significant barium and sulphur, possibly indicative of barite. Silica is rarely above two percent. Some of these analyses may be the result of fluid infiltration by the nearby King Salmon fault.

9. Recommendations

It is recommended that Hard Creek Nickel Corp. conduct a five day, two person sampling and mapping program. The goals of the program should be to collect 50 to 100 representative chip or panel samples from all areas of exposed carbonate and to map any structures internal to the carbonate. It is also recommended that other limestone occurrences to the west of the Dease Lime claims be examined because they may actually all be part of one continuous body of limestone.

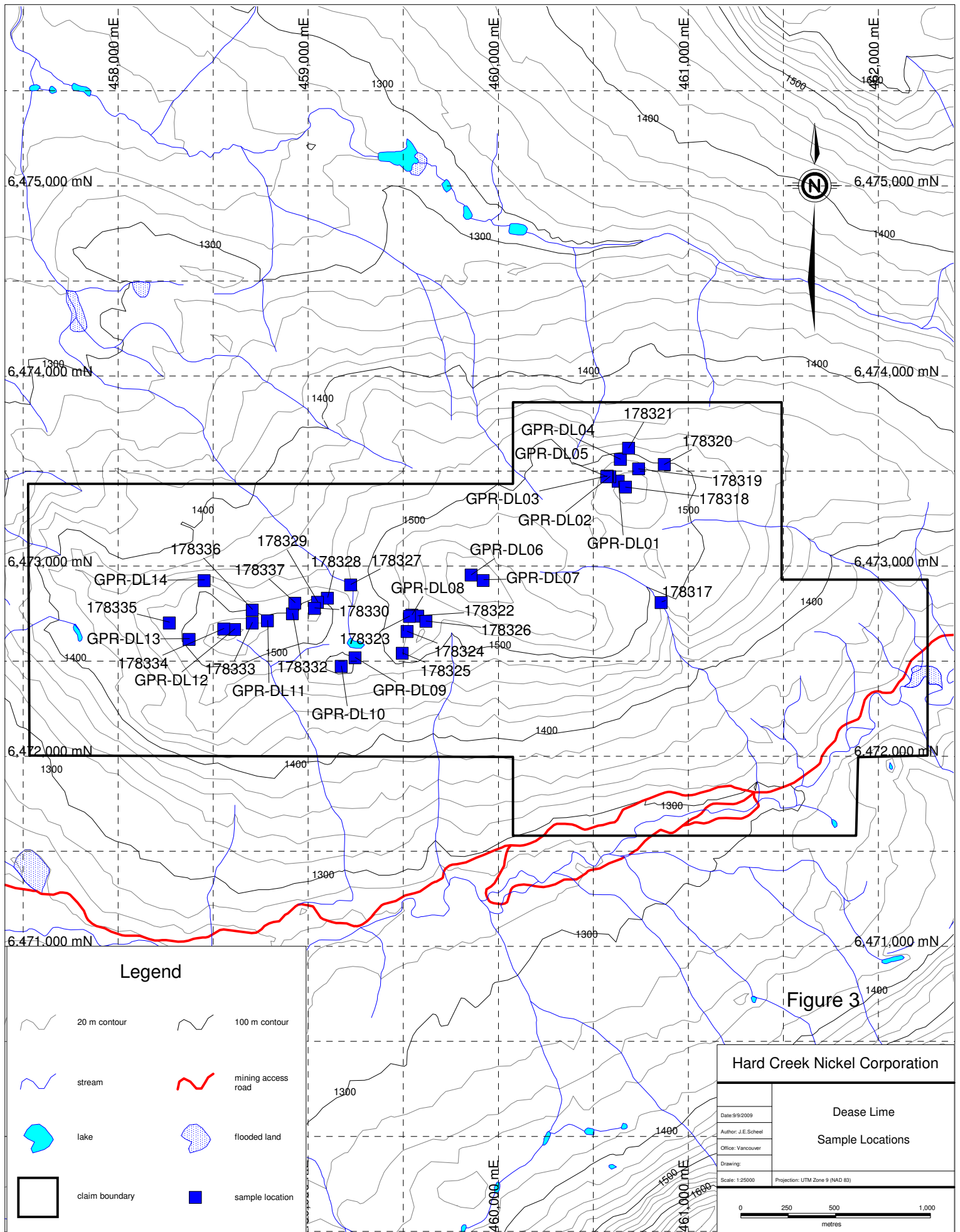


Figure 3

Hard Creek Nickel Corporation	
Dease Lime	
Sample Locations	
Date: 9/9/2009	Author: J.E.Scheel
Office: Vancouver	Drawing:
Scale: 1:25000	Projection: UTM Zone 9 (NAD 83)

Table 1: Representative Oxide, Cation, and Mineral Proportions from the Dease Lime Property

Sample:	178317	178320	178322	178324	178330	178332	178334	GPR-DL04	GPR-DL05	GPR-DL06	GPR-DL08	GPR-DL09	GPR-DL10	GPR-DL11	GPR-DL12
<i>Oxides (wt. %)</i>															
SiO ₂	0.43	0.77	1.26	0.49	0.93	1.07	0.16	0.16	0.11	0.25	0.39	0.74	0.21	0.69	0.1
Al ₂ O ₃	0.11	0.18	0.19	0.1	0.13	0.22	0.02	0.04	-	-	0.11	0.15	0.03	0.15	-
Fe ₂ O ₃	0.12	0.05	0.05	0.06	0.08	0.13	-	-	-	0.06	0.1	0.41	0.08	0.11	-
MgO	1.57	0.21	0.24	0.26	0.48	0.31	0.33	0.24	0.23	0.36	0.33	0.18	0.23	0.18	0.33
CaO	54.61	56.15	55.52	55.97	54.81	54.49	55.42	55.41	55.6	55.22	54.77	53.24	55.42	55.07	55
Na ₂ O	0.02	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-
K ₂ O	0.02	0.04	0.01	-	0.02	0.03	-	-	-	-	-	0.01	-	-	-
TiO ₂	-	-	0.01	-	-	0.02	-	-	-	-	-	-	-	0.01	-
P ₂ O ₅	-	-	0.02	0.02	0.01	0.04	-	-	-	-	-	0.01	0.02	0.35	0.02
MnO	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-
Cr ₂ O ₃	-	-	0.012	0.003	0.003	0.002	-	-	-	-	0.004	0.008	0.006	0.007	-
LOI	43	42.5	42.6	43	43.5	43.6	44	44.1	44	44.1	44.2	40.4	43.9	43.4	44.5
Sum	99.97	99.98	99.98	99.99	99.98	99.98	99.99	99.98	99.99	100	99.98	99.96	99.99	99.99	99.99
Ba (ppm)	10	27	14	10	23	20	61	23	17	5	13	42544	411	113	51
TOT/C	12.32	12.04	11.9	12.02	12.14	12.1	12.24	11.76	12.19	11.93	12.19	11.33	12.12	12.07	12.25
CO ₂	45.14	44.12	43.60	44.04	44.48	44.34	44.85	43.09	44.67	43.71	44.67	41.52	44.41	44.23	44.89
TOT/S	-	-	-	-	-	-	-	-	-	-	-	0.87	-	-	-
<i>Cations (p.f.u.)</i>															
Si	0.007	0.013	0.021	0.008	0.015	0.018	0.003	0.003	0.002	0.004	0.006	0.012	0.003	0.011	0.002
Mg	0.039	0.005	0.006	0.006	0.012	0.008	0.008	0.006	0.006	0.009	0.008	0.004	0.006	0.004	0.008
Ca	0.974	1.001	0.990	0.998	0.977	0.972	0.988	0.988	0.991	0.985	0.977	0.949	0.988	0.982	0.981
C	1.026	1.002	0.991	1.001	1.011	1.007	1.019	0.979	1.015	0.993	1.015	0.943	1.009	1.005	1.020
Total	2.046	2.022	2.008	2.013	2.016	2.005	2.018	1.976	2.014	1.991	2.006	1.910	2.007	2.003	2.011
Quartz (wt %)	0.43	0.77	1.26	0.49	0.93	1.07	0.16	0.16	0.11	0.25	0.39	0.74	0.21	0.69	0.1
<i>Dolomite*</i>															
Mg/Ca	0.039	0.005	0.006	0.006	0.012	0.008	0.008	0.006	0.006	0.009	0.008	0.004	0.006	0.004	0.008
C	0.078	0.010	0.012	0.013	0.024	0.015	0.016	0.012	0.011	0.018	0.016	0.009	0.011	0.009	0.016
CaMg(CO ₃) ₂	7.18	0.96	1.10	1.19	2.20	1.42	1.51	1.10	1.05	1.65	1.51	0.82	1.05	0.82	1.51
<i>Calcite</i>															
based on Ca**	94.14	99.52	98.27	99.08	97.58	97.72	99.09	97.64	99.44	97.65	98.26	94.11	99.01	98.65	98.71
based on C***	102.66	100.33	99.16	100.16	101.16	100.83	102.00	98.00	101.58	99.41	101.58	94.41	101.00	100.58	102.08

* All Mg in the respective analyses was assigned to dolomite

** Calcite % calculated using remaining Ca after dolomite calculation

*** Calcite % calculated based on analysed C

10. References

Gabrielse, H. (1998). Geology of Cry Lake and Dease Lake map areas, north-central British Columbia, *Geological Survey of Canada Bulletin* **504**, 147p

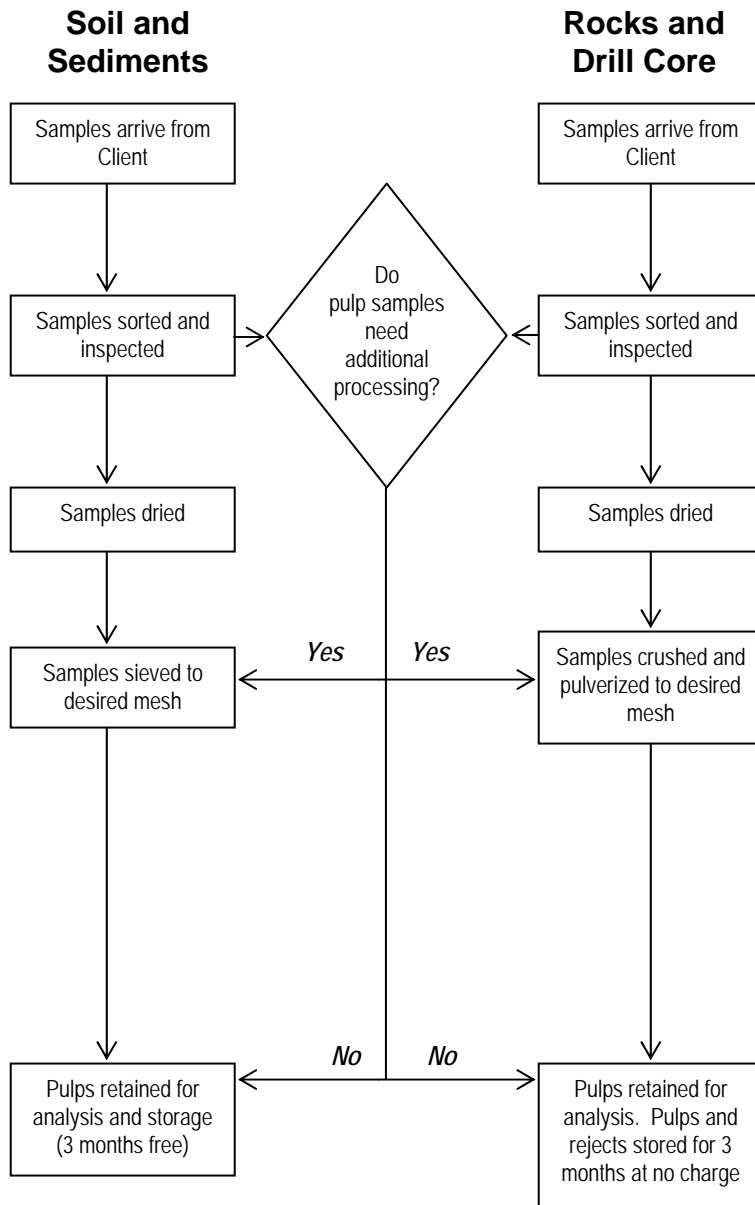
Appendix I: Sample Coordinates

Sample:	Easting	Northing	Sample:	Easting	Northing
GPR-DL01	460636	6473453	178321	460690	6473627
GPR-DL02	460592	6473477	178322	459579	6472742
GPR-DL03	460578	6473480	178323	459536	6472740
GPR-DL04	460647	6473568	178324	459523	6472661
GPR-DL05	460575	6473477	178325	459498	6472547
GPR-DL06	459861	6472958	178326	459623	6472715
GPR-DL07	459924	6472930	178327	459226	6472906
GPR-DL08	459549	6472748	178328	459103	6472836
GPR-DL09	459249	6472522	178329	459051	6472815
GPR-DL10	459176	6472478	178330	459035	6472782
GPR-DL11	458788	6472717	178331	449961	6472973
GPR-DL12	458614	6472671	178332	458919	6472754
GPR-DL13	458375	6472620	178333	458708	6472706
GPR-DL14	458455	6472928	178334	458557	6472673
178317	460862	6472813	178335	458271	6472706
178318	460674	6473422	178336	458708	6472774
178319	460743	6473518	178337	458932	6472810
178320	460879	6473541			

All UTM coordinates are projected in NAD83, Zone 9

Appendix II
Analytical Techniques and Results

GENERAL SAMPLE PREPARATION METHODS



Comments

Receiving: Samples arrive via courier, post or by client drop-off; shipment inspected for completeness.

Sorting and Inspection: Samples sorted and inspected for quality of use (quantity and condition). Pulp samples inspected for homogeneity and fineness. Coarse pulps are screened or pulverized after getting client's approval.

Drying: Wet or damp samples are dried at 60°C (40°C if specified by the client).

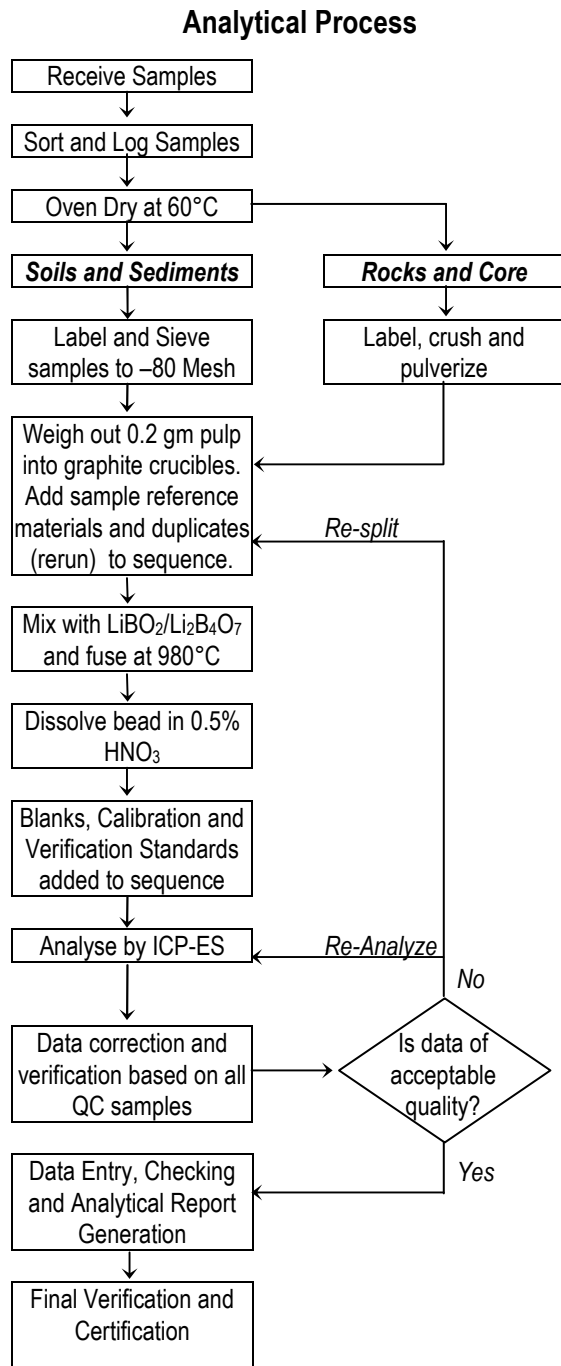
Sieving: Soil and sediment sieved to -80 mesh ASTM (-177 microns) unless client specifies otherwise. Sieve cleaned by brush and compressed air between samples. Reference material G-1 (pulp made of granite blank) is carried as first sample in sequence (sieve>weigh>digest>analyse) to monitor background noise.

Crushing and Pulverizing: Rock and Drill Core crushed to 70% passing 10 mesh (2 mm), homogenized, riffle split (250 g subsample) and pulverized to 95% passing 150 mesh (100 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Granite is crushed and pulverized as first sample in sequence and carried through to analysis to monitor background noise.

Compositing: Equal weights of crushed, pulverized or sieved material from 2 or more samples are combined and pulverized for 60+ seconds to produce a homogeneous mixture.

Storage: Pulp samples (up to 100g for soils or sediments and up to 250 g for rock and drill core) are archived for 3 months at no cost. Soil and sediment rejects are discarded immediately. Rock and drill core rejects are stored for 3 months at no charge. Client may request additional storage, return or disposal of pulps and rejects after initial free storage period.

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 4A: WHOLE ROCK ANALYSIS BY ICP



Comments

Sample Preparation

Soil or sediment is dried (60°C) and sieved to -80 mesh (-180 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mat is dried (60°C), pounded and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 85% passing 200 mesh (75 µm) in a mild-steel ring-and-puck mill.

Sample Digestion

A 0.2 g aliquot is weighed into a graphite crucible and mixed with 1.5 g of LiBO₂/Li₂B₄O₇ flux. Crucibles are placed in an oven and heated to 980°C for 30 minutes. The cooled bead is dissolved in 5% HNO₃ (ACS grade nitric acid diluted in demineralised water). Calibration standards and reagent blanks are added to the sample sequence.

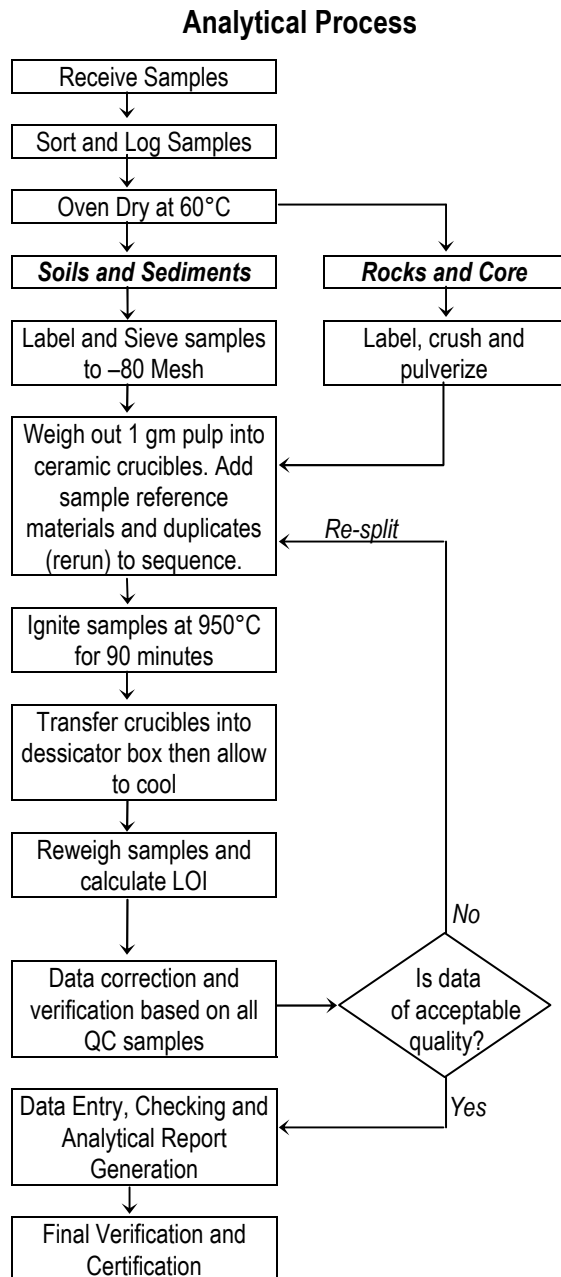
Sample Analysis

Sample solutions are aspirated into an ICP emission spectrograph (Spectro Ciros Vision or Varian 735) for the determination of the basic package consisting of the following 18 major oxides and elements: SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO, Na₂O, K₂O, MnO, TiO₂, P₂O₅, Cr₂O₃, Ba, Nb, Ni, Sr, Sc, Y and Zr. The extended package also includes: Ce, Co, Cu, Ta and Zn. Loss on ignition (LOI) is determined for both packages by igniting a 1 g sample split at 950°C for 90 minutes then measuring the weight loss. Total Carbon and Sulphur are determined by the Leco method (Group 2A).

Quality Control and Data Verification

QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample in the job which is carried through all stages of preparation to analysis. An Analytical Batch comprises 36 client samples and incorporates a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and aliquots of in-house Reference Material like SO-18 or CSC. Data undergoes a final verification by a British Columbia Certified Assayer who then validates results before it is released to the client.

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE LOI : LOSS ON IGNITION



Comments

Sample Preparation

Soil or sediment is dried (60°C) and sieved to -80 mesh (-180 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mat is dried (60°C), pounded and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 85% passing 200 mesh (75 µm) in a mild-steel ring-and-puck mill.

Sample Analysis

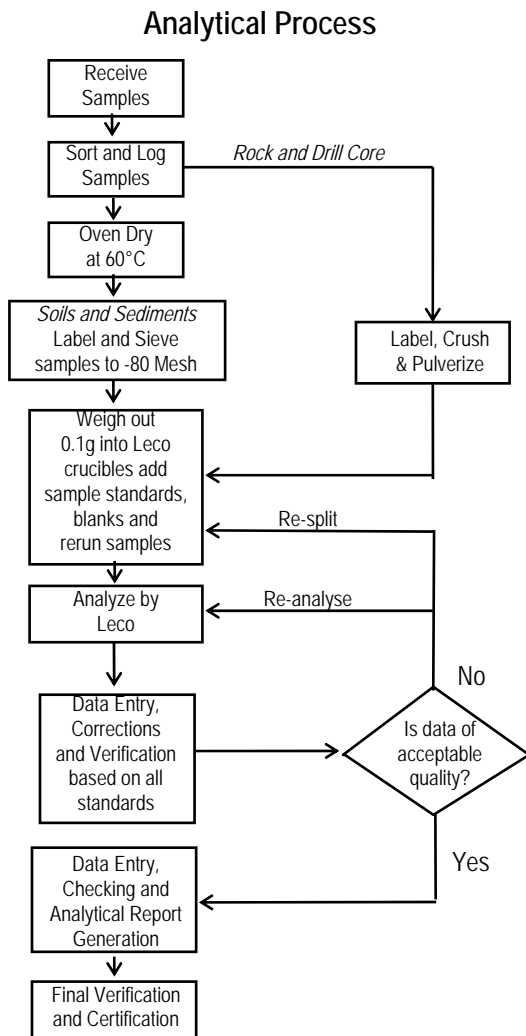
A 1.0 g sample is weighed into a ceramic crucible then placed in an oven and ignited to 950°C for 90 minutes. Allow samples to cool room temperature then reweigh samples to measure the weight loss.

Quality Control and Data Verification

QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample in the job which is carried through all stages of preparation to analysis. An Analytical Batch comprises 36 client samples and incorporates a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and aliquots of in-house Reference Material. Data undergoes a final verification by a British Columbia Certified Assayer who then validates results before it is released to the client.

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE

GROUP 2A: TOTAL CARBON & SULPHUR



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh ASTM (-177 microns), rocks and drill core are crushed and pulverized to -150 mesh ASTM (-100 microns). Moss-mat samples are dried (60°C), macerated then sieved to recover -80 mesh sediment or ashed at 550°C (upon a client's request). Sample splits (0.1 g) are placed in Leco crucibles. Duplicate splits of crushed (rejects duplicate) and pulverized (pulp duplicate) fractions are included with every 36 drill core or trench samples to define sample homogeneity (reject duplicate) and analytical precision (pulp duplicate). Duplicate pulp splits (only) are included in every batch of soil, sediment and routine rock samples. A blank and in-house standard material STD CSC are carried through weighing, ignition and analytical stages to monitor accuracy.

Sample Analysis

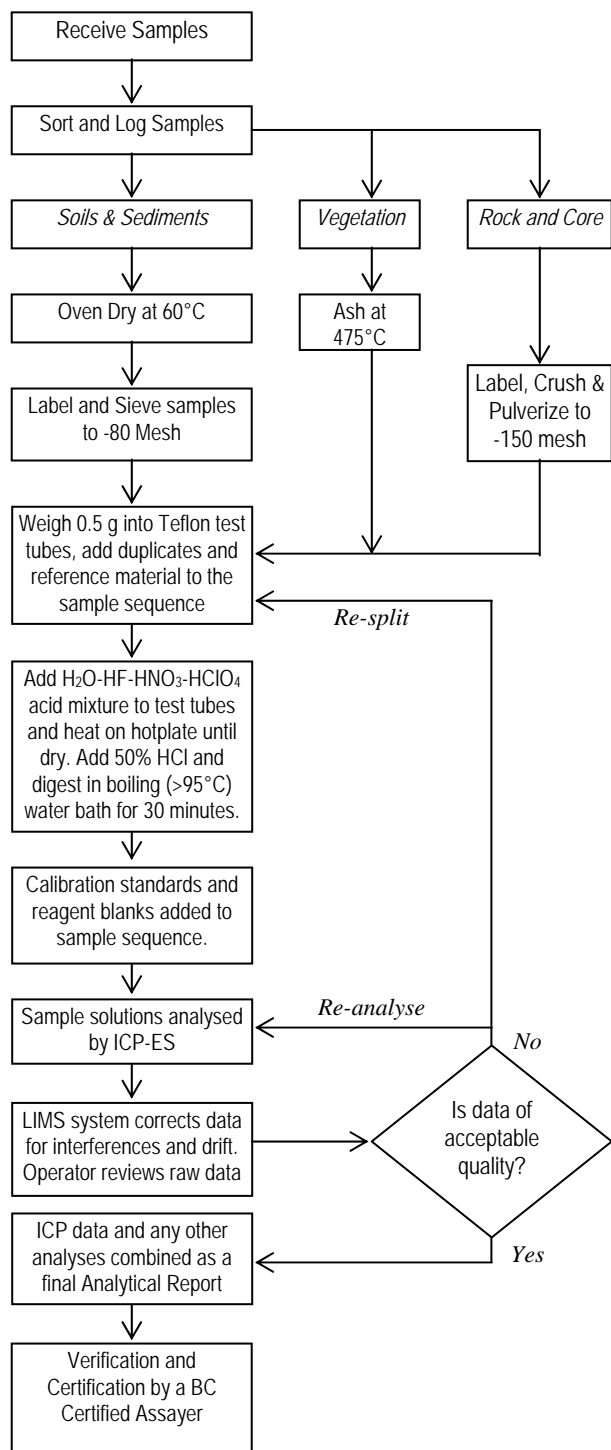
Analysis is by infrared adsorption using a Leco CS244 or CS200 Carbon-Sulphur analyser. After precise weighing, induction flux is added and the sample is ignited at >1650°C in an induction furnace. A carrier gas sweeps up released carbon and sulphur to be measured by adsorption in an infrared spectrometric cell. Results are total and attributed to the presence of carbon and sulphur in all forms.

Data Evaluation

Raw and final data from the Leco Carbon-Sulphur analyser undergoes a final verification by a British Columbia Certified Assayer who must sign the analytical report before release to the client.

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 7TD – MULTI-ELEMENT ASSAY BY ICP-ES • 4-ACID DIGESTION

Analytical Process



Comments

Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-177 µm). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill. Pulp splits of 0.5 g are weighed into Teflon test tubes.

Sample Digestion

A 20 mL aliquot of the acid solution (2:2:1:1 H₂O-HF-HClO₄-HNO₃) is added, heated until fuming on a hot plate and taken to dryness. A 16 mL aliquot of 50% HCl is added to the residue and heated in a hot-water bath (~95°C) for 30 minutes. After cooling the solutions are transferred to 100 mL volumetric flasks and made to volume with 5% HCl.

Sample Analysis

Solutions aspirated into a Spectro Ciros Vision ICP emission spectrograph are analysed for a 22 element package comprising: Ag, Al, As, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, W and Zn. Very high grade samples may require a 1 g to 250 mL or 0.25 g to 250 mL sample to solution ratio for accurate determination.

Quality Control and Data Verification

An Analytical Batch (1 page) comprises 36 samples. QA/QC protocol incorporates a sample-prep blank (G-1) carried through all stages of preparation and analysis as the first sample, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and an aliquot of in-house Standard Reference Materials like STD R3 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Hard Creek Nickel Corporation**
 1060 - 1090 W. Georgia St.
 Vancouver BC V6E 3V7 Canada

Project: Turnagain
 Report Date: July 14, 2009

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CERTIFICATE OF ANALYSIS

SMI09000012.1

Method	WGHT	3B	3B	3B	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	Au	Pt	Pd	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	
Unit	kg	ppb	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	3	2	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	
178317	Rock	0.38	2	<3	<2	0.43	0.11	0.12	1.57	54.61	0.02	0.02	<0.01	<0.01	<0.01	<0.002	10	<20	256	<5	<3
178318	Rock	0.80	<2	<3	<2	0.78	0.21	0.20	0.36	55.62	0.01	0.04	0.02	<0.01	<0.01	0.005	49	<20	324	<5	10
178319	Rock	0.80	<2	<3	<2	0.59	0.24	0.21	0.33	55.89	<0.01	0.07	0.05	0.02	<0.01	0.007	34	<20	286	<5	18
178320	Rock	0.42	<2	<3	<2	0.77	0.18	0.05	0.21	56.15	0.04	0.04	<0.01	<0.01	<0.01	<0.002	27	<20	167	<5	12
178321	Rock	0.62	<2	<3	<2	0.25	0.10	0.29	0.21	55.73	<0.01	0.01	<0.01	0.09	<0.01	0.003	16	23	185	<5	5
178322	Rock	0.33	<2	<3	<2	1.26	0.19	0.05	0.24	55.52	<0.01	0.01	0.01	0.02	<0.01	0.012	14	<20	157	<5	16
178323	Rock	0.50	<2	<3	<2	0.57	0.12	0.13	0.17	55.78	<0.01	0.01	0.02	0.01	0.02	<0.002	17	<20	229	<5	15
178324	Rock	0.67	<2	<3	3	0.49	0.10	0.06	0.26	55.97	<0.01	<0.01	<0.01	0.02	<0.01	0.003	10	<20	277	<5	6
178325	Rock	0.48	<2	<3	<2	0.10	<0.01	<0.04	0.41	56.14	<0.01	<0.01	<0.01	0.01	<0.01	0.003	1385	<20	201	<5	7
178326	Rock	0.48	<2	<3	<2	0.11	<0.01	<0.04	0.29	55.82	<0.01	<0.01	<0.01	0.01	<0.01	0.006	6	<20	137	<5	10
178327	Rock	0.63	10	<3	<2	0.08	<0.01	<0.04	0.29	56.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	28	<20	130	<5	5
178328	Rock	0.52	<2	<3	<2	2.25	0.52	0.20	0.30	53.67	<0.01	0.03	0.04	0.01	<0.01	0.021	32	39	232	<5	11
178329	Rock	0.48	4	<3	<2	0.35	0.08	0.15	0.29	55.24	<0.01	0.02	<0.01	<0.01	0.01	<0.002	17	<20	233	<5	13
178330	Rock	0.78	<2	<3	<2	0.93	0.13	0.08	0.48	54.81	<0.01	0.02	<0.01	0.01	<0.01	0.003	23	<20	160	<5	14
178331	Rock	2.81	<2	3	<2	39.18	0.83	9.08	41.22	1.16	0.01	<0.01	<0.01	<0.01	0.13	0.394	<5	2540	3	<5	<3
178332	Rock	0.65	<2	<3	<2	1.07	0.22	0.13	0.31	54.49	<0.01	0.03	0.02	0.04	<0.01	0.002	20	<20	179	7	17
178333	Rock	0.46	2	<3	<2	0.37	0.03	0.09	0.57	55.19	<0.01	<0.01	<0.01	<0.01	<0.01	0.005	28	22	260	<5	3
178334	Rock	0.57	<2	<3	<2	0.16	0.02	<0.04	0.33	55.42	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	61	<20	355	<5	<3
178335	Rock	0.33	<2	<3	<2	0.37	0.04	0.09	0.33	55.29	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	39	<20	220	<5	7
178336	Rock	0.39	<2	<3	<2	0.09	<0.01	0.05	0.45	55.22	<0.01	<0.01	<0.01	0.02	<0.01	0.004	61	<20	290	<5	4
178337	Rock	0.35	5	<3	<2	0.24	0.03	0.48	0.34	54.61	<0.01	<0.01	<0.01	<0.01	0.02	0.008	36	<20	152	<5	4
GPR-DL01	Rock	0.74	<2	<3	<2	2.21	0.30	0.21	0.34	53.51	<0.01	0.05	0.03	0.03	<0.01	0.005	30	29	242	6	8
GPR-DL02	Rock	0.80	<2	<3	<2	0.13	<0.01	<0.04	0.23	55.43	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	11	<20	168	<5	<3
GPR-DL03	Rock	0.66	<2	<3	<2	0.21	0.05	<0.04	0.18	55.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	22	<20	151	<5	<3
GPR-DL04	Rock	0.67	<2	<3	<2	0.16	0.04	<0.04	0.24	55.41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	23	<20	202	<5	8
GPR-DL05	Rock	0.53	<2	<3	<2	0.11	<0.01	<0.04	0.23	55.60	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	17	<20	185	<5	<3
GPR-DL06	Rock	0.59	<2	<3	<2	0.25	<0.01	0.06	0.36	55.22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	5	<20	278	<5	<3
GPR-DL07	Rock	0.41	<2	<3	<2	0.44	0.13	<0.04	0.26	54.85	<0.01	0.02	0.01	0.02	<0.01	0.003	12	<20	253	<5	7
GPR-DL08	Rock	0.62	<2	<3	<2	0.39	0.11	0.10	0.33	54.77	<0.01	<0.01	<0.01	<0.01	<0.01	0.004	13	<20	145	<5	5
GPR-DL09	Rock	0.75	<2	<3	<2	0.74	0.15	0.41	0.18	53.24	<0.01	0.01	<0.01	0.01	0.02	0.008	42544	<20	147	7	22

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Project: Turnagain
Report Date: July 14, 2009

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CERTIFICATE OF ANALYSIS

SMI09000012.1

Method	4A	4A	4A	4A 2A	Leco 2A	Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	
Analyte	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	
Unit	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	
MDL	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	
178317	Rock	<5	<1	43.0	99.97	12.32	<0.02	<0.001	0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.09	<0.02	0.02	<0.001	<0.01	<0.01
178318	Rock	<5	<1	42.7	99.98	11.97	<0.02	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	<0.01	0.14	<0.02	0.03	<0.001	<0.01	<0.01
178319	Rock	<5	<1	42.5	99.98	11.94	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.001	<0.001	<0.01	0.15	<0.02	0.03	<0.001	<0.01	<0.01
178320	Rock	<5	<1	42.5	99.98	12.04	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.04	<0.02	0.02	<0.001	<0.01	<0.01
178321	Rock	<5	<1	43.3	100.00	12.14	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	0.21	<0.02	0.02	<0.001	<0.01	<0.01
178322	Rock	<5	1	42.6	99.98	11.90	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.05	<0.02	0.02	<0.001	<0.01	<0.01
178323	Rock	<5	2	43.1	99.99	11.92	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.02	0.10	<0.02	0.02	<0.001	<0.01	<0.01
178324	Rock	<5	2	43.0	99.99	12.02	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.05	<0.02	0.03	<0.001	<0.01	<0.01
178325	Rock	<5	<1	43.1	99.98	12.27	0.03	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.02	<0.02	0.02	<0.001	<0.01	<0.01
178326	Rock	<5	<1	43.7	99.99	12.06	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.02	<0.02	0.01	<0.001	<0.01	<0.01
178327	Rock	<5	<1	43.5	99.99	12.28	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	0.01	<0.001	<0.01	<0.01
178328	Rock	<5	1	42.9	99.97	11.90	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.004	<0.001	<0.01	0.12	<0.02	0.02	<0.001	<0.01	<0.01
178329	Rock	<5	<1	43.8	99.98	12.03	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.01	0.10	<0.02	0.02	<0.001	<0.01	<0.01
178330	Rock	<5	<1	43.5	99.98	12.14	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.06	<0.02	0.02	<0.001	<0.01	<0.01
178331	Rock	<5	7	6.9	99.27	0.99	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.248	0.012	0.10	6.32	<0.02	<0.01	<0.001	<0.01	<0.01
178332	Rock	<5	1	43.6	99.98	12.10	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.07	<0.02	0.02	<0.001	<0.01	<0.01
178333	Rock	<5	<1	43.7	99.99	12.18	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.001	<0.001	<0.01	0.06	<0.02	0.03	<0.001	<0.01	<0.01
178334	Rock	<5	<1	44.0	99.99	12.24	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.03	<0.02	0.04	<0.001	<0.01	<0.01
178335	Rock	<5	<1	43.8	99.97	12.10	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.06	<0.02	0.02	<0.001	<0.01	<0.01
178336	Rock	<5	<1	44.1	99.98	12.04	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.03	<0.02	0.03	<0.001	<0.01	<0.01
178337	Rock	<5	<1	44.2	99.98	12.25	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.001	<0.001	0.01	0.34	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL01	Rock	<5	<1	43.2	99.98	11.88	<0.02	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	0.14	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL02	Rock	<5	<1	44.1	99.98	12.10	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.02	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL03	Rock	<5	<1	44.3	99.98	12.25	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.02	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL04	Rock	<5	<1	44.1	99.98	11.76	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.01	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL05	Rock	<5	<1	44.0	99.99	12.19	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.02	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL06	Rock	<5	<1	44.1	100.00	11.93	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.02	<0.02	0.03	<0.001	<0.01	<0.01
GPR-DL07	Rock	<5	<1	44.2	99.97	12.06	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.05	<0.02	0.03	<0.001	<0.01	<0.01
GPR-DL08	Rock	<5	<1	44.2	99.98	12.19	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.07	<0.02	0.01	<0.001	<0.01	<0.01
GPR-DL09	Rock	<5	4	40.4	99.96	11.33	0.87	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.02	0.26	<0.02	0.01	<0.001	<0.01	<0.01



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Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
Analyte	V	Ca	P	Cr	Mg	Ti	Al	Na	K	W	S	
Unit	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
178317	Rock	<0.01	36.29	<0.01	0.001	0.85	<0.01	0.07	0.01	0.02	<0.01	0.18
178318	Rock	<0.01	37.00	<0.01	0.002	0.20	0.01	0.13	<0.01	0.03	<0.01	0.19
178319	Rock	<0.01	36.87	<0.01	0.003	0.17	0.02	0.14	<0.01	0.06	<0.01	0.18
178320	Rock	<0.01	37.59	<0.01	<0.001	0.11	<0.01	0.11	0.03	0.04	<0.01	0.17
178321	Rock	<0.01	37.13	0.03	0.001	0.12	<0.01	0.07	<0.01	<0.01	<0.01	0.16
178322	Rock	<0.01	37.19	<0.01	0.003	0.12	<0.01	0.12	<0.01	0.01	<0.01	0.17
178323	Rock	<0.01	36.43	<0.01	<0.001	0.10	0.01	0.08	<0.01	0.01	<0.01	0.16
178324	Rock	<0.01	37.24	<0.01	<0.001	0.14	<0.01	0.07	<0.01	<0.01	<0.01	0.17
178325	Rock	<0.01	36.81	<0.01	0.001	0.22	<0.01	0.02	<0.01	<0.01	<0.01	0.21
178326	Rock	<0.01	37.17	<0.01	0.002	0.16	<0.01	0.02	<0.01	<0.01	<0.01	0.17
178327	Rock	<0.01	37.64	<0.01	<0.001	0.16	<0.01	0.02	<0.01	<0.01	<0.01	0.20
178328	Rock	<0.01	36.13	<0.01	0.007	0.17	0.02	0.32	<0.01	0.02	<0.01	0.18
178329	Rock	<0.01	37.93	<0.01	<0.001	0.16	<0.01	0.06	<0.01	0.01	<0.01	0.19
178330	Rock	<0.01	37.34	<0.01	0.001	0.27	<0.01	0.09	<0.01	0.01	<0.01	0.19
178331	Rock	<0.01	0.82	<0.01	0.100	24.57	<0.01	0.37	<0.01	<0.01	<0.01	0.01
178332	Rock	<0.01	36.34	0.01	<0.001	0.16	0.01	0.13	<0.01	0.02	<0.01	0.17
178333	Rock	<0.01	37.96	<0.01	0.001	0.31	<0.01	0.03	<0.01	<0.01	<0.01	0.19
178334	Rock	<0.01	37.56	<0.01	<0.001	0.18	<0.01	0.03	<0.01	<0.01	<0.01	0.19
178335	Rock	<0.01	37.52	<0.01	<0.001	0.18	<0.01	0.04	<0.01	<0.01	<0.01	0.18
178336	Rock	<0.01	37.54	<0.01	0.002	0.24	<0.01	0.02	<0.01	<0.01	<0.01	0.17
178337	Rock	<0.01	36.60	<0.01	0.003	0.18	<0.01	0.03	<0.01	<0.01	<0.01	0.17
GPR-DL01	Rock	<0.01	36.43	<0.01	0.001	0.19	0.02	0.18	<0.01	0.04	<0.01	0.18
GPR-DL02	Rock	<0.01	37.27	<0.01	<0.001	0.12	<0.01	0.02	<0.01	<0.01	<0.01	0.17
GPR-DL03	Rock	<0.01	37.68	<0.01	<0.001	0.10	<0.01	0.04	<0.01	<0.01	<0.01	0.19
GPR-DL04	Rock	<0.01	37.35	<0.01	<0.001	0.13	<0.01	0.04	<0.01	<0.01	<0.01	0.17
GPR-DL05	Rock	<0.01	36.83	<0.01	<0.001	0.12	<0.01	0.02	<0.01	<0.01	<0.01	0.17
GPR-DL06	Rock	<0.01	37.91	<0.01	<0.001	0.20	<0.01	0.02	<0.01	<0.01	<0.01	0.19
GPR-DL07	Rock	<0.01	37.42	<0.01	<0.001	0.14	<0.01	0.09	<0.01	0.02	<0.01	0.19
GPR-DL08	Rock	<0.01	37.79	<0.01	0.001	0.18	<0.01	0.08	<0.01	<0.01	<0.01	0.19
GPR-DL09	Rock	<0.01	34.68	<0.01	0.002	0.09	<0.01	0.09	<0.01	<0.01	<0.01	0.37

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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CERTIFICATE OF ANALYSIS

SMI09000012.1

Method	WGHT	3B	3B	3B	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	Au	Pt	Pd	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	
Unit	kg	ppb	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	3	2	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	
GPR-DL10	Rock	0.92	3	<3	<2	0.21	0.03	0.08	0.23	55.42	<0.01	<0.01	<0.01	0.02	<0.01	0.006	411	<20	159	<5	8
GPR-DL11	Rock	0.44	<2	<3	<2	0.69	0.15	0.11	0.18	55.07	<0.01	<0.01	0.01	0.35	<0.01	0.007	113	<20	125	<5	16
GPR-DL12	Rock	0.50	2	<3	<2	0.10	<0.01	<0.04	0.33	55.00	<0.01	<0.01	<0.01	0.02	<0.01	<0.002	51	<20	244	<5	<3
GPR-DL13	Rock	0.32	2	<3	<2	0.13	<0.01	<0.04	0.19	55.25	<0.01	<0.01	<0.01	0.01	<0.01	<0.002	52	<20	138	<5	16
GPR-DL14	Rock	0.55	<2	<3	<2	1.11	0.36	0.13	0.28	53.93	<0.01	0.07	0.01	<0.01	0.03	0.004	26	<20	136	<5	14



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 1060 - 1090 W. Georgia St.
 Vancouver BC V6E 3V7 Canada

Project: Turnagain
 Report Date: July 14, 2009

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CERTIFICATE OF ANALYSIS

SMI09000012.1

Method	4A	4A	4A	4A	2A	Leco	2A	Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
Analyte	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	
Unit	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	
MDL	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	
GPR-DL10	Rock	<5	<1	43.9	99.99	12.12	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.05	<0.02	0.02	<0.001	<0.01	<0.01
GPR-DL11	Rock	<5	2	43.4	99.99	12.07	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.10	<0.02	0.01	<0.001	<0.01	<0.01
GPR-DL12	Rock	<5	<1	44.5	99.99	12.25	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.03	<0.02	0.03	<0.001	<0.01	<0.01
GPR-DL13	Rock	<5	<1	44.3	99.99	12.25	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.03	<0.02	0.01	<0.001	<0.01	<0.01
GPR-DL14	Rock	<5	2	44.0	99.97	12.28	<0.02	0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.02	0.07	<0.02	0.01	<0.001	<0.01	<0.01



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Page: 3 of 3 Part 3

CERTIFICATE OF ANALYSIS

SMI09000012.1

Method		7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
Analyte		V	Ca	P	Cr	Mg	Ti	Al	Na	K	W	S
Unit		%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GPR-DL10	Rock	<0.01	37.07	<0.01	0.002	0.12	<0.01	0.03	<0.01	<0.01	<0.01	0.17
GPR-DL11	Rock	<0.01	36.76	0.15	0.002	0.10	<0.01	0.10	<0.01	<0.01	<0.01	0.19
GPR-DL12	Rock	<0.01	37.58	<0.01	<0.001	0.18	<0.01	0.02	<0.01	<0.01	<0.01	0.18
GPR-DL13	Rock	<0.01	36.96	<0.01	<0.001	0.10	<0.01	0.02	<0.01	<0.01	<0.01	0.18
GPR-DL14	Rock	<0.01	37.90	<0.01	<0.001	0.14	<0.01	0.18	<0.01	0.06	<0.01	0.05

Appendix III: Oxide, Cation, and Mineral Proportions from the Dease Lime Property

Sample:	178317	178318	178319	178320	178321	178322	178323	178324	178325	178326
<i>Oxides (wt. %)</i>										
SiO ₂	0.43	0.78	0.59	0.77	0.25	1.26	0.57	0.49	0.1	0.11
Al ₂ O ₃	0.11	0.21	0.24	0.18	0.1	0.19	0.12	0.1	-	-
Fe ₂ O ₃	0.12	0.2	0.21	0.05	0.29	0.05	0.13	0.06	-	-
MgO	1.57	0.36	0.33	0.21	0.21	0.24	0.17	0.26	0.41	0.29
CaO	54.61	55.62	55.89	56.15	55.73	55.52	55.78	55.97	56.14	55.82
Na ₂ O	0.02	0.01	-	0.04	-	-	-	-	-	-
K ₂ O	0.02	0.04	0.07	0.04	0.01	0.01	0.01	-	-	-
TiO ₂	-	0.02	0.05	-	-	0.01	0.02	-	-	-
P ₂ O ₅	-	-	0.02	-	0.09	0.02	0.01	0.02	0.01	0.01
MnO	-	-	-	-	-	-	0.02	-	-	-
Cr ₂ O ₃	-	0.005	0.007	-	0.003	0.012	-	0.003	0.003	0.006
LOI	43	42.7	42.5	42.5	43.3	42.6	43.1	43	43.1	43.7
Sum	99.97	99.98	99.98	99.98	100	99.98	99.99	99.99	99.98	99.99
Ba (ppm)	10	49	34	27	16	14	17	10	1385	6
TOT/C	12.32	11.97	11.94	12.04	12.14	11.9	11.92	12.02	12.27	12.06
CO ₂	45.14	43.86	43.75	44.12	44.48	43.60	43.68	44.04	44.96	44.19
TOT/S	-	-	-	-	-	-	-	-	0.03	-
<i>Cations (p.f.u.)</i>										
Si	0.007	0.013	0.010	0.013	0.004	0.021	0.009	0.008	0.002	0.002
Mg	0.039	0.009	0.008	0.005	0.005	0.006	0.004	0.006	0.010	0.007
Ca	0.974	0.992	0.997	1.001	0.994	0.990	0.995	0.998	1.001	0.995
C	1.026	0.997	0.994	1.002	1.011	0.991	0.992	1.001	1.022	1.004
Total	2.046	2.010	2.009	2.022	2.014	2.008	2.001	2.013	2.035	2.009
<i>Quartz (wt %)</i>	0.43	0.78	0.59	0.77	0.25	1.26	0.57	0.49	0.1	0.11
<i>Dolomite*</i>										
Mg/Ca	0.039	0.009	0.008	0.005	0.005	0.006	0.004	0.006	0.010	0.007
C	0.078	0.018	0.016	0.010	0.010	0.012	0.008	0.013	0.020	0.014
CaMg(CO ₃) ₂	7.18	1.65	1.51	0.96	0.96	1.10	0.78	1.19	1.88	1.33
<i>Calcite</i>										
based on Ca**	94.14	98.19	98.46	99.52	99.46	98.27	98.85	99.08	99.63	98.97
based on C***	102.66	99.75	99.50	100.33	101.16	99.16	99.33	100.16	102.25	100.50

* All Mg in the respective analyses was assigned to dolomite

** Calcite % calculated using remaining Ca after dolomite calculation

*** Calcite % calculated based on analysed C

Appendix III (continued)

Sample:	178327	178328	178329	178330	178332	178333	178334	178335	178336	178337
<i>Oxides (wt. %)</i>										
SiO ₂	0.08	2.25	0.35	0.93	1.07	0.37	0.16	0.37	0.09	0.24
Al ₂ O ₃	-	0.52	0.08	0.13	0.22	0.03	0.02	0.04	-	0.03
Fe ₂ O ₃	-	0.2	0.15	0.08	0.13	0.09	-	0.09	0.05	0.48
MgO	0.29	0.3	0.29	0.48	0.31	0.57	0.33	0.33	0.45	0.34
CaO	56.04	53.67	55.24	54.81	54.49	55.19	55.42	55.29	55.22	54.61
Na ₂ O	-	-	-	-	-	-	-	-	-	-
K ₂ O	-	0.03	0.02	0.02	0.03	-	-	-	-	-
TiO ₂	-	0.04	-	-	0.02	-	-	-	-	-
P ₂ O ₅	-	0.01	-	0.01	0.04	-	-	-	0.02	-
MnO	-	-	0.01	-	-	-	-	-	-	0.02
Cr ₂ O ₃	-	0.021	-	0.003	0.002	0.005	-	0.003	0.004	0.008
LOI	43.5	42.9	43.8	43.5	43.6	43.7	44	43.8	44.1	44.2
Sum	99.99	99.97	99.98	99.98	99.98	99.99	99.99	99.97	99.98	99.98
Ba (ppm)	28	32	17	23	20	28	61	39	61	36
TOT/C	12.28	11.9	12.03	12.14	12.1	12.18	12.24	12.1	12.04	12.25
CO ₂	45.00	43.60	44.08	44.48	44.34	44.63	44.85	44.34	44.12	44.89
TOT/S	-	-	-	-	-	-	-	-	-	-
<i>Cations (p.f.u.)</i>										
Si	0.001	0.037	0.006	0.015	0.018	0.006	0.003	0.006	0.001	0.004
Mg	0.007	0.007	0.007	0.012	0.008	0.014	0.008	0.008	0.011	0.008
Ca	0.999	0.957	0.985	0.977	0.972	0.984	0.988	0.986	0.985	0.974
C	1.022	0.991	1.002	1.011	1.007	1.014	1.019	1.007	1.002	1.020
Total	2.030	1.993	2.000	2.016	2.005	2.019	2.018	2.008	2.000	2.006
Quartz (wt %)	0.08	2.25	0.35	0.93	1.07	0.37	0.16	0.37	0.09	0.24
<i>Dolomite</i>										
Mg/Ca	0.007	0.007	0.007	0.012	0.008	0.014	0.008	0.008	0.011	0.008
C	0.014	0.015	0.014	0.024	0.015	0.028	0.016	0.016	0.022	0.017
CaMg(CO ₃) ₂	1.33	1.37	1.33	2.20	1.42	2.61	1.51	1.51	2.06	1.56
<i>Calcite</i>										
based on Ca	100.00	96.20	98.28	97.58	97.72	97.78	99.09	98.45	97.73	98.28
based on C	102.33	99.16	100.25	101.16	100.83	101.50	102.00	100.83	100.33	102.08

* All Mg in the respective analyses was assigned to dolomite

** Calcite % calculated using remaining Ca after dolomite calculation

*** Calcite % calculated based on analysed C

Appendix III (continued)

Sample:	GPR-DL01	GPR-DL02	GPR-DL03	GPR-DL04	GPR-DL05	GPR-DL06	GPR-DL07	GPR-DL08	GPR-DL09	GPR-DL10
<i>Oxides (wt. %)</i>										
SiO ₂	2.21	0.13	0.21	0.16	0.11	0.25	0.44	0.39	0.74	0.21
Al ₂ O ₃	0.3	-	0.05	0.04	-	-	0.13	0.11	0.15	0.03
Fe ₂ O ₃	0.21	-	-	-	-	0.06	-	0.1	0.41	0.08
MgO	0.34	0.23	0.18	0.24	0.23	0.36	0.26	0.33	0.18	0.23
CaO	53.51	55.43	55.18	55.41	55.6	55.22	54.85	54.77	53.24	55.42
Na ₂ O	-	-	-	-	-	-	-	-	-	-
K ₂ O	0.05	-	-	-	-	-	0.02	-	0.01	-
TiO ₂	0.03	-	-	-	-	-	0.01	-	-	-
P ₂ O ₅	0.03	-	-	-	-	-	0.02	-	0.01	0.02
MnO	-	-	-	-	-	-	-	-	0.02	-
Cr ₂ O ₃	0.005	0.003	-	-	-	-	0.003	0.004	0.008	0.006
LOI	43.2	44.1	44.3	44.1	44	44.1	44.2	44.2	40.4	43.9
Sum	99.98	99.98	99.98	99.98	99.99	100	99.97	99.98	99.96	99.99
Ba (ppm)	30	11	22	23	17	5	12	13	42544	411
TOT/C	11.88	12.1	12.25	11.76	12.19	11.93	12.06	12.19	11.33	12.12
CO ₂	43.53	44.34	44.89	43.09	44.67	43.71	44.19	44.67	41.52	44.41
TOT/S	-	-	-	-	-	-	-	-	0.87	-
<i>Cations (p.f.u.)</i>										
Si	0.037	0.002	0.003	0.003	0.002	0.004	0.007	0.006	0.012	0.003
Mg	0.008	0.006	0.004	0.006	0.006	0.009	0.006	0.008	0.004	0.006
Ca	0.954	0.988	0.984	0.988	0.991	0.985	0.978	0.977	0.949	0.988
C	0.989	1.007	1.020	0.979	1.015	0.993	1.004	1.015	0.943	1.009
Total	1.989	2.004	2.012	1.976	2.014	1.991	1.996	2.006	1.910	2.007
<i>Quartz (wt %)</i>	2.21	0.13	0.21	0.16	0.11	0.25	0.44	0.39	0.74	0.21
<i>Dolomite</i>										
Mg/Ca	0.008	0.006	0.004	0.006	0.006	0.009	0.006	0.008	0.004	0.006
C	0.017	0.011	0.009	0.012	0.011	0.018	0.013	0.016	0.009	0.011
CaMg(CO ₃) ₂	1.56	1.05	0.82	1.10	1.05	1.65	1.19	1.51	0.82	1.05
<i>Calcite</i>										
based on Ca	95.83	98.94	99.42	97.64	99.44	97.65	98.11	98.26	94.11	99.01
based on C	99.00	100.83	102.08	98.00	101.58	99.41	100.50	101.58	94.41	101.00

* All Mg in the respective analyses was assigned to dolomite

** Calcite % calculated using remaining Ca after dolomite calculation

*** Calcite % calculated based on analysed C

Appendix III (continued)

Sample:	GPR-DL11	GPR-DL12	GPR-DL13	GPR-DL14
<i>Oxides (wt. %)</i>				
SiO ₂	0.69	0.1	0.13	1.11
Al ₂ O ₃	0.15	-	-	0.36
Fe ₂ O ₃	0.11	-	-	0.13
MgO	0.18	0.33	0.19	0.28
CaO	55.07	55	55.25	53.93
Na ₂ O	-	-	-	-
K ₂ O	-	-	-	0.07
TiO ₂	0.01	-	-	0.01
P ₂ O ₅	0.35	0.02	0.01	-
MnO	-	-	-	0.03
Cr ₂ O ₃	0.007	-	-	0.004
LOI	43.4	44.5	44.3	44
Sum	99.99	99.99	99.99	99.97
Ba (ppm)	113	51	52	26
TOT/C	12.07	12.25	12.25	12.28
CO ₂	44.23	44.89	44.89	45.00
TOT/S	-	-	-	-
<i>Cations (p.f.u.)</i>				
Si	0.011	0.002	0.002	0.018
Mg	0.004	0.008	0.005	0.007
Ca	0.982	0.981	0.985	0.962
C	1.005	1.020	1.020	1.022
Total	2.003	2.011	2.012	2.010
<i>Quartz (wt %)</i>	0.69	0.1	0.13	1.11
<i>Dolomite</i>				
Mg/Ca	0.004	0.008	0.005	0.007
C	0.009	0.016	0.009	0.014
CaMg(CO ₃) ₂	0.82	1.51	0.87	1.28
<i>Calcite</i>				
based on Ca	98.65	98.71	99.46	97.93
based on C	100.58	102.08	102.08	102.33

* All Mg in the respective analyses was assigned to dolomite

** Calcite % calculated using remaining Ca after dolomite calculation

*** Calcite % calculated based on analysed C

Appendix IV: Costs Statement

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Erik Scheel - Project Geologist	June 29 and 30	2	\$500.00	\$1,000.00	
Greg Ross - Geologist	June 29 and 30	2	\$500.00	\$1,000.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$2,000.00	\$2,000.00
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search			\$0.00	\$0.00	
Database compilation			\$0.00	\$0.00	
Computer modelling			\$0.00	\$0.00	
Reprocessing of data			\$0.00	\$0.00	
General research	Greg Ross	0.5	\$500.00	\$250.00	
Report preparation	Erik Scheel	1.5	\$500.00	\$750.00	
Other (specify)			\$0.00	\$0.00	
				\$1,000.00	\$1,000.00
Ground Exploration Surveys	Area in Hectares/List Personnel				
Geological mapping	176 ha / E.Scheel, G. Ross				
Regional					
Reconnaissance					
Prospect	176 ha / E.Scheel, G. Ross				
Underground	Define by length and width				
Trenches	Define by length and width				\$0.00
					\$0.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Drill (cuttings, core, etc.)			\$0.00	\$0.00	
Stream sediment			\$0.00	\$0.00	
Soil			\$0.00	\$0.00	
Rock	35 rock samples taken	35	\$63.02	\$2,205.55	
Water			\$0.00	\$0.00	
Biogeochemistry			\$0.00	\$0.00	
Whole rock			\$0.00	\$0.00	
Petrology			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$2,205.55	\$2,205.55
Transportation		No.	Rate	Subtotal	
Airfare			\$0.00	\$0.00	
Taxi			\$0.00	\$0.00	
truck rental			\$0.00	\$0.00	
kilometers			\$0.00	\$0.00	
ATV			\$0.00	\$0.00	
fuel			\$0.00	\$0.00	
Helicopter (hours)	1.7 hrs flight time	1.7	\$1,080.51	\$1,836.87	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					
				\$1,836.87	\$1,836.87
Accommodation & Food	Rates per day				

Appendix IV (continued)

Hotel	2 rooms, 3 nights each		\$98.31	\$589.86	
Camp			\$0.00	\$0.00	
Meals	4 man-days	4.00	\$35.00	\$140.00	
				\$729.86	\$729.86
Miscellaneous					
Telephone			\$0.00	\$0.00	
Other (Specify)					
				\$0.00	\$0.00
Equipment Rentals					
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)					
				\$0.00	\$0.00
Freight, rock samples					
	35 samples from Dease Lake to Van		\$0.00	\$83.34	
			\$0.00	\$0.00	
				\$83.34	\$83.34
TOTAL Expenditures					
					\$7,855.62

Appendix V
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

J. ERIK SCHEEL

I, J. ERIK SCHEEL., of Apt. 207, 43 E 15th Avenue, Vancouver, BC, hereby certify that:

1. I am a full time geologist, presently retained by Hard Creek Nickel Corporation.
2. I hold a B.Sc.H in Geological Sciences from the University of Alberta, awarded in 2004, and a M.Sc. in Geological Sciences from the University of British Columbia, awarded in 2007
3. I have written a portion of, read and understood the report. I have performed a portion of the work herein as a geologist with Hard Creek Nickel Corp.



J. Erik Scheel

September 15th, 2009
Date

STATEMENT OF QUALIFICATIONS

GREG ROSS

I, GREG ROSS, of 201 – 3707 Cambie Street, Vancouver, BC, hereby certify that:

1. I am a Hard Creek Nickel Corp. staff geologist.
2. I hold a B.Sc. in Earth Science from the University of Victoria, awarded in 2006.
3. I hold the designation of Geoscientist-in-Training (GIT) from the Association of Professional Engineers and Geoscientists of the Province of British Columbia, awarded in 2008.
4. I have reviewed and understood this report, which is based on data collected and work performed by the principal author and myself while employed as geologists by Hard Creek Nickel Corp. in 2009.



Gregory Ross

16 Sept 2009
Date