



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: **Geological mapping and prospecting, Adams Lake property, southern British Columbia**

TOTAL COST: **\$12,552.12**

AUTHOR(S): T. Höy,
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5508859

YEAR OF WORK: 2014

PROPERTY NAME: Adams Lake

CLAIM NAME(S) (on which work was done): 879349, 879369, 879389, 879409

COMMODITIES SOUGHT: gold, copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 082LNW053, 082LNW078

MINING DIVISION: Kamloops

NTS / BCGS: 082M002, 082L092, 082L093

LATITUDE: 50°58'N

LONGITUDE: 119°36'W

UTM Zone: 11

EASTING: 319000

NORTHING: 5651000

OWNER(S): Rogue Resources Inc.

MAILING ADDRESS:

2270-1055 W. Georgia Street
Vancouver, B.C., V6E 3P3

OPERATOR(S): Rogue Resources Inc.

MAILING ADDRESS:

As above

REPORT KEYWORDS

Gold vein mineralization, volcanogenic massive sulphide, Kootenay Terrane, Eagle Bay
Assemblage

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

Assessment reports 8800, 13400, 15503, 16965, 17232, 19632, 20640, 33128

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	Approx. 15.0 sq km	879349, 879369, 879389, 879409	12280.12
Ground, mapping			
GEOPHYSICAL (line-kilometres)			
Magnetic			
Electromagnetic			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock	8 34 elements	879349 879369	272.00.00
Other			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
report			
Other			
Map			
compilation			
		TOTAL COST	12,552.82

Geological mapping and prospecting Adams Lake property, southern British Columbia

Mineral Tenures:
849203, 849217, 879349, 879369,
879389, 879409, 1026964, 1027349.

NTS map sheet 082L, 082M
1:20,000 trim map sheet 082M002, 082L092, 082L093
Centered at -119°36' W, 50°58'N

Kamloops Mining Division

By

BC Geological Survey
Assessment Report
34911

Trygve Hoy, P.Eng., Ph.D.
2450 Dixon Road, Sooke, B.C., V9Z 0X6

Claim owner: Rogue Resources Inc.

Claim operator:
Rogue Resources Inc.
2270-1055 W. Georgia Street
Vancouver, BC
V6E 3P3

September 15, 2014

Geological mapping and prospecting, Adams Lake property, southern British Columbia

Table of contents:

Introduction	3
Location and physiography	3
Clams	5
Exploration history	6
Regional geology	7
Property geology	9
Eagle Bay Assemblage	11
Dykes	11
Mineralization	12
Conclusions and Recommendations	12
Acknowledgements	13
References	13

Figures

1. Location map	4
2. Adams Lake claim map	5
3. Regional geology map	8
4. Simplified geological map of the Adams Lake claim group	9
5. Geology of the southeastern part of the Adams Lake property	10

Tables

1. Mineral tenures	5
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Appendices

1. Statement of qualifications	15
2. Statement of costs	16
3. Description and analyses of samples	17

Introduction

The Adams Lake property comprises 8 mineral claims owned by Rogue Resources Inc. and covering an area of 3520 ha. The claims are located on the southern slopes of Adams Plateau immediately east and south of Adams Lake. The area to the north has had considerable exploration and some mining activity, directed towards massive sulphide sedex deposits on the Plateau, volcanogenic massive sulphide deposits in correlative rocks northwest of Adams Lake, and current exploration on the Harper Creek copper-gold deposit located approximately 60 km north of Adams Plateau.

Rogue Resources has done only minor exploration work on the property, mainly in an effort to evaluate the ground for the potential for both gold vein and massive sulphide mineralization. This report details ten days of geological mapping and prospecting in early June, 2014.

Location and physiography

The Adams Lake property is located approximately 20 km northeast of the town of Chase and 15 km northwest of Scotch Creek (Figure 1). The property can be accessed by crossing the Little River between Little Shuswap and Shuswap lakes, driving north on to the Squilax-Anglemont Road, then north along a wide gravel logging road that begins at the municipality of Lee Creek and continues north along the side of the Property. A network of logging access roads provides ready access to most of the property.

A considerable part of the property has been logged and is covered in second growth timber. The Plateau in the northern part of the property is defined to the east and west by steep, often cliffy slopes to more moderate wooded or grassy slopes; farther south the slopes are gentler, but again extensively logged and largely overgrown with new timber. Higher elevations are typical of sub-alpine vegetation whereas the lower slopes are covered in heavy stands of fir, balsam, various pines and locally cedar.

The Adams Lake property includes 8 mineral tenures, owned by Rogue Resources Inc., and in good standing until July 1, 2015 (Table 1, Figure 2). The claims are contiguous and cover a total area of 3520.32 ha. Work this year was concentrated on the claims in the southeastern part of the property.

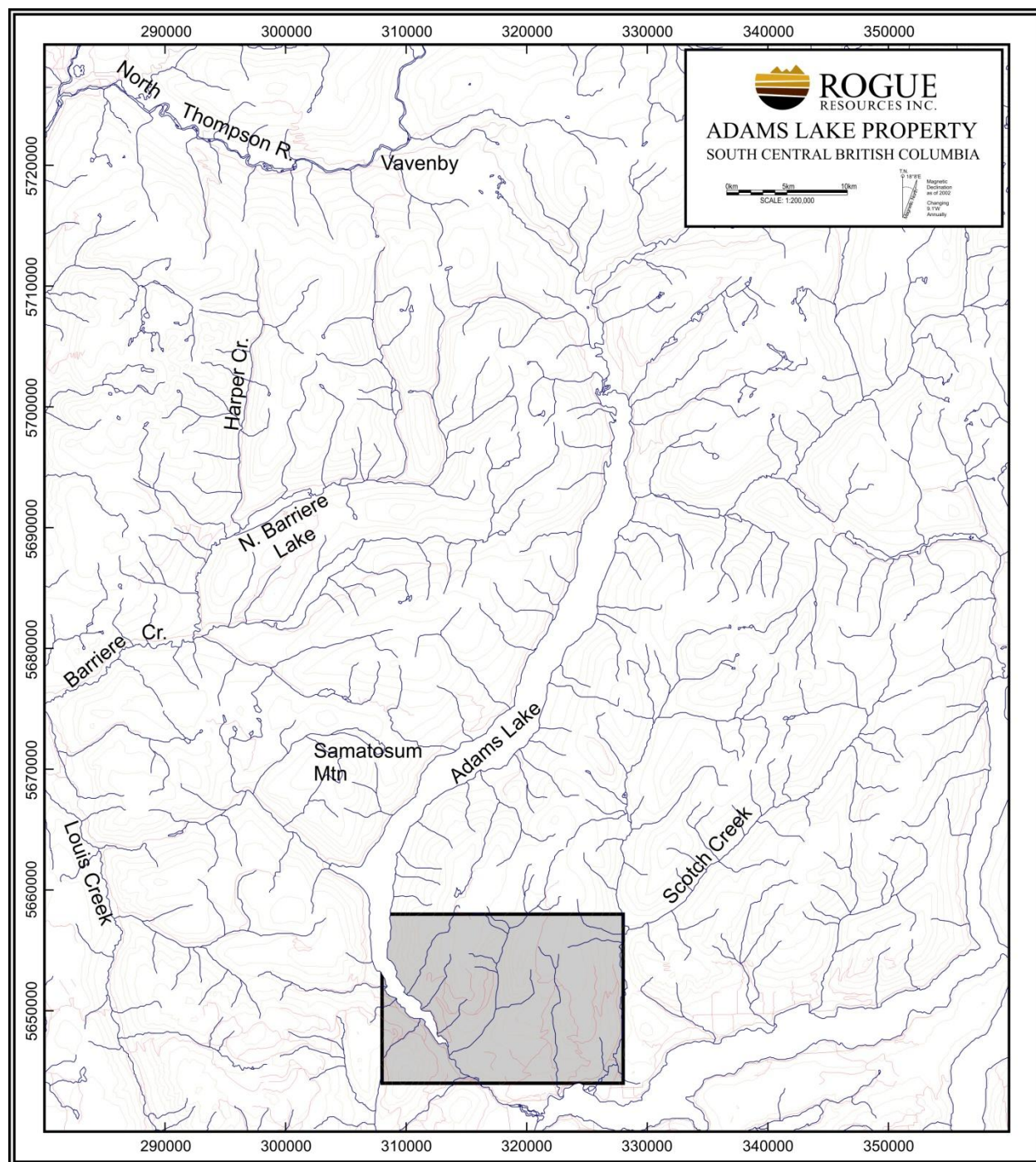


Figure 1: Location map; area of Figure 2 is shaded.

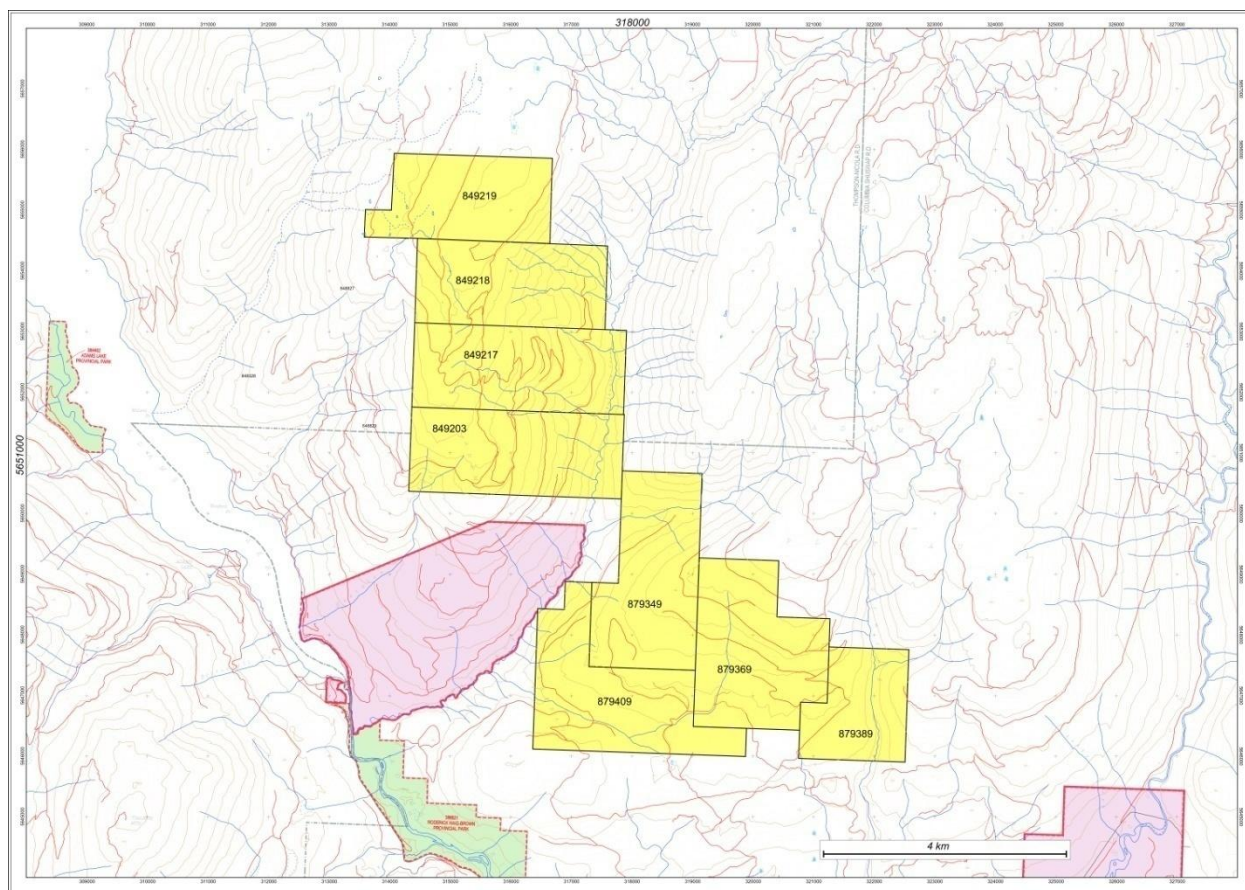


Figure 2: Adams Lake claim map showing location of Rogue Resources mineral tenures.
Descriptions of tenures are given in Table 1.

Claims

Number	Name	Owner	Good to date	Size (ha)
849203	Why	Rogue Resources	July 1, 2015	488.31
849217	Not	Rogue Resources	July 1, 2015	488.17
879349	Jerry	Rogue Resources	July 1, 2015	488.49
879369	Tom	Rogue Resources	July 1, 2015	508.95
879389	Bugs	Rogue Resources	July 1, 2015	285.06
879409	Bunny	Rogue Resources	July 1, 2015	509.04
1026964	Adams	Rogue Resources	July 1, 2015	386.27
1027349	Adams 2	Rogue Resources	July 1, 2015	366.03

Table 1: Mineral tenures, Adams Lake property; see Figure 2 for location

Exploration history

The following description of the exploration history of the property is largely summarized from a report by Seabrook and Höy (2012).

Exploration on the Adams Lake property predates the first recorded work in 1980 when Canadian Nickel Company Ltd. explored for the extension of a known showing (Jones, 1980). The showing, Nik (east) (Minfile 082LNW053), is reported to be massive pyrrhotite lenses 5 to 10cm in width carrying minor chalcopyrite. The report describes the discovery of the showing and the original staking of the claims in the 1960s. The author goes on to describe further exploration in the 1970s which indicated an eastern extension of the Nik (east) showing. The Canadian Nickel Company conducted geochemical and geophysical surveys to define the extension and found the strike length was too short to warrant further work.

An exploration program of rock geochemistry and an airborne EM survey was conducted in 1984 by Utah Mines Ltd. on the former Ford property, located on the present northwest claim block of the Adams Lake property (Robinson, 1984). The airborne survey revealed seven conductive anomalies that the author suggested were good targets for massive sulphide mineralization. In 1986 Utah Mines Ltd. conducted an IP survey over the Ford and Woof mineral claims (Lloyd, 1987). Three additional IP surveys were done in 1987 on the Ford and Woof claims by Utah Mines Ltd. under The Adams Plateau Joint Venture Partner (Lloyd, 1988). On the southern-most Adams C grid, four anomalies were indicated and 410m of diamond drilling was recommended. In the same year 633.5m of diamond drilling was conducted on the Ford and Woof claims with disappointing results (Olfert, 1988). No recommendations were made at this time.

In 1989 Tech Corp. became the operator on the Ford and Woof claims and began a program of mapping and coincident geochemical sampling (Jensen, 1990). The program indicated changes to unit contacts but did not identify economic mineralization at surface. Further work was suggested in several areas, including geological mapping and diamond drilling on Utah Mines IP anomalies. In 1990 Tech followed up on their recommendations and explored the Ford property (Jensen and Farmer, 1990) by grid geological mapping as well as soil geochemistry, re-logging of diamond drill core and 860.5m of additional drilling. The program identified several occurrences of mineralization where lead-zinc anomalies were concurrent with former IP anomalies. Tech recommended that any additional work should focus on the Adams C grid to determine the reason for the eastward thinning of the mineralized zone.

Rogue Iron Ore Corp. (now Rogue Resources Inc.) acquired the property in 2011 and that year conducted geological mapping, prospecting and sampling mainly in the northwestern part of the claim group (Seabrook and Höy, 2012). Some additional prospecting and mapping were done in the southeastern block and it was recommended that future work should be concentrated in this area, based primarily on the discovery of altered felsic volcanics that contained a small occurrence of exhalite copper-base metal mineralization.

Regional geology

The Adams Lake property is underlain by Paleozoic sedimentary, igneous and volcanic rocks of the pericratonic Kootenay terrane, deposited on the distal margin of ancestral North America (Gabrielse *et al.* 1991; Colpron and Price, 1995; Logan and Colpron, 2006). The Kootenay terrane lies within the Omineca morphological belt of the Canadian Cordillera (Schiarizza and Preto, 1987; Wheeler and McFeely, 1991; Monger, 1993).

Rocks of the Eagle Bay assemblage range in age from Cambrian to Mississippian, comprising predominantly deformed and metamorphosed sediments and volcanics deposited in an evolving basin (Schiarizza and Preto, 1987). The assemblage is, in part, correlative with Paleozoic rocks from the Kootenay arc to the southeast and the Barkerville-Cariboo area to the north (Schiarizza and Preto, *op. cit.*). Granites and diorite sills were emplaced in Upper Devonian to Lower Mississippian time and large felsic intrusions such as the Raft and Baldy batholiths were intruded in the Upper Jurassic and Cretaceous (Paradis *et al.*, 2006). Eocene sedimentary and volcanic rocks of the Kamloops Group locally overlie the Eagle Bay assemblage (Schiarizza and Preto, *op. cit.*; Logan and Mann, 2000). The Eagle Bay assemblage is bounded to the east by high grade metamorphic rocks of the Shuswap Complex and to the west by the Fennell Formation - low-grade metamorphic rocks of the Slide Mountain terrane which are coeval with part of the Eagle Bay assemblage (Schiarizza and Preto, *op. cit.*).

The dominant deformation, east verging thrust faults and associated folding, emplaced the Fennell Formation on the Eagle Bay assemblage in Jurassic-Cretaceous time. A dominant schistosity in the Eagle Bay assemblage is related to later synmetamorphic south-west directed folds and thrust faults (Schiarizza and Preto, *op. cit.*). A later period of deformation with upright northwest plunging folds produced axial planar crenulation cleavage and fold axis lineations; however, these structures are not well developed on the southeast side of Adams Lake in the region of the Adams Lake Property. Northerly trending structures with strike slip movement offset all other structural features and units and are therefore interpreted to be Eocene in age.

The Eagle Bay assemblage hosts several types of massive sulphide deposits, primarily in Devonian felsic volcanic and sedimentary rocks (Höy, 1999) (Figure 3). Three of these deposits have had limited past production, including the Rea Gold, Homestake and Samatosum mines, and others have undergone varying degree of exploration. The volcanogenic massive sulphide (VMS) deposits in the Eagle Bay assemblage are primarily polymetallic and related to arc volcanism during subduction of oceanic crust (Höy, *op. cit.*). This volcanic succession underlies the Adams Lake Property and is the main exploration target in the area. Sedimentary hosted massive sulphide deposits (Sedex) located north of the Property on Adams Plateau are related to Lower Cambrian mafic volcanic and sedimentary rocks (Höy, *op. cit.*); these have had limited production. They comprise layers of galena and sphalerite with lesser pyrrhotite; several occurrences of stratabound massive chalcopyrite, bornite and pyrrhotite have also been discovered on the Adams Plateau just north of the property.

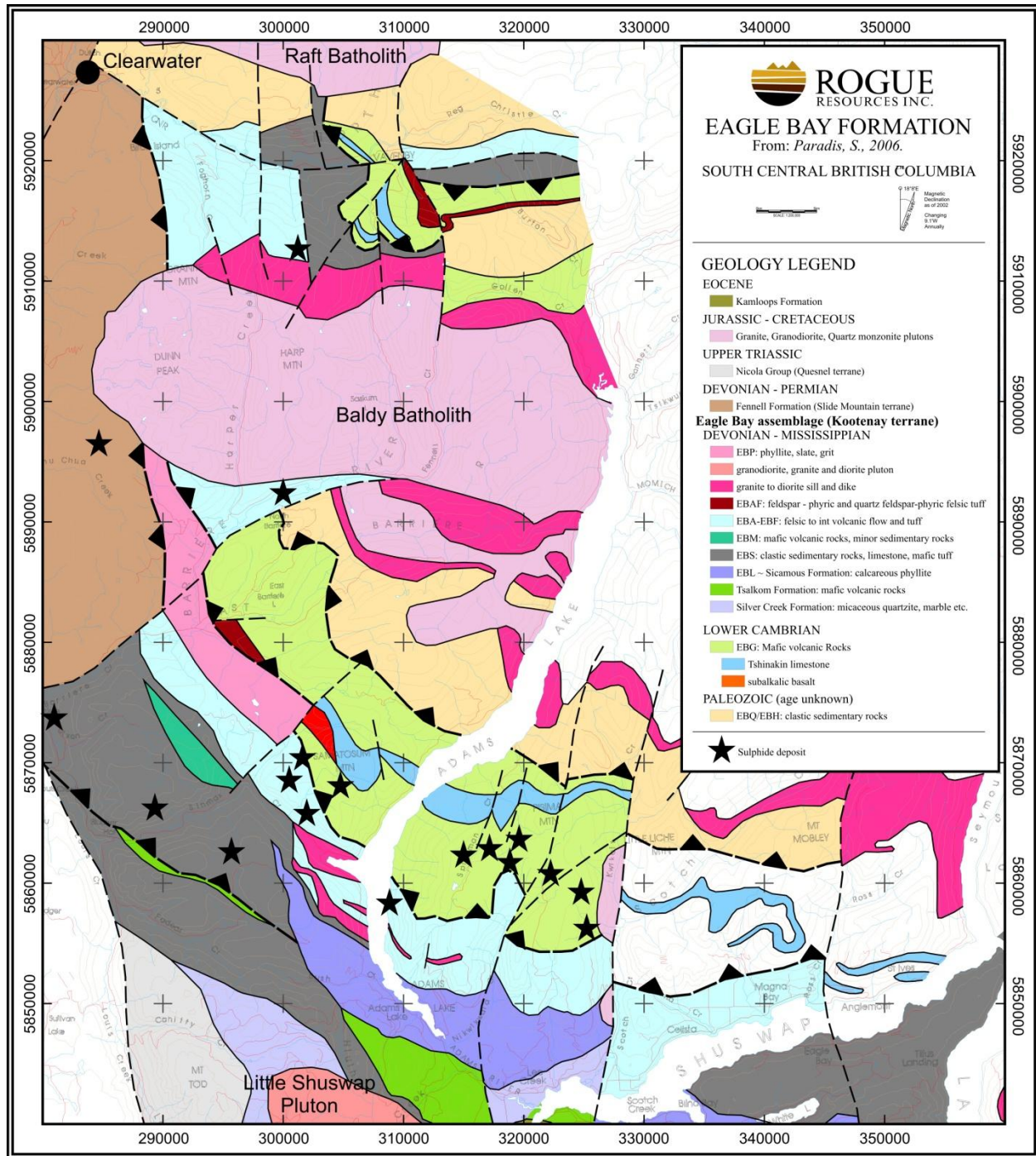


Figure 3: Regional geology map (geology after Schiarizza and Preto, 1987; Paradis et al., 2006).

Property geology

Figure 4 shows a simplified geological map of the Adams Lake property and the immediately surrounding area. Figure 5 shows the geology of the southeastern claim group and the results of mapping and sampling in this program.

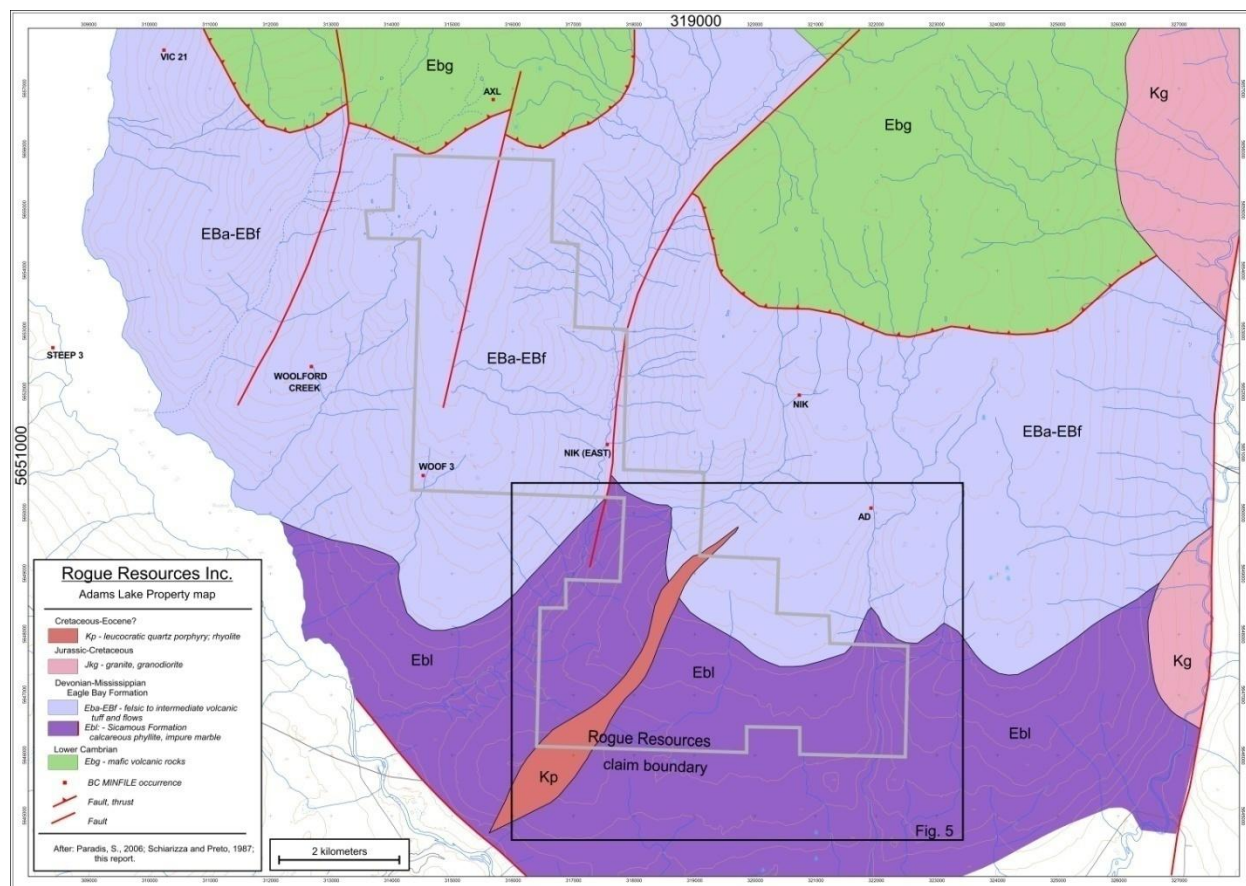


Figure 4: Simplified geological map of the Adams Lake claim group, taken from Paradis et al. (2006), Schiarizza and Preto (1987), Höy and Seabrook (2012) and this report. Note location of more detailed map, Figure 5.

The Adams Lake property is underlain by Cambrian to Devonian-Mississippian metasedimentary and metavolcanic rocks of the Eagle Bay Assemblage, intruded by a suite of dominantly felsic, leucocratic fine-grained quartz-feldspar porphyries. A prominent east to northeast-trending, shallow north-dipping foliation or schistosity is pervasive in virtually all rocks of the Eagle Bay Assemblage.

Detailed descriptions of the lithologic units of the Eagle Bay that are on the property are described by Seabrook and Höy (2012) and are not reviewed here. Mapping during the 2014 season concentrated solely on the southeastern part of the claim group, as shown in Figure 5, and descriptions of units here are described below.

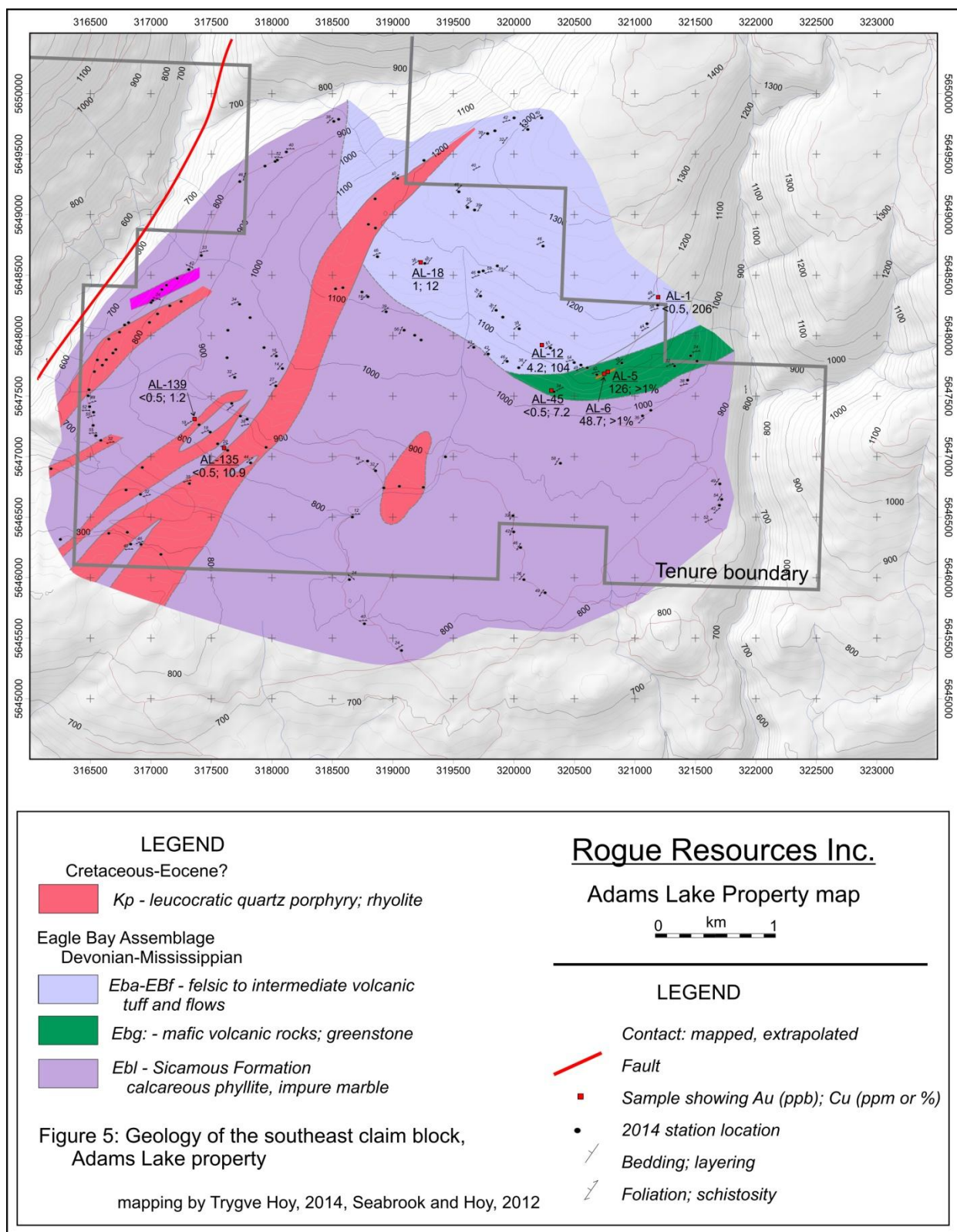


Figure 5: Geology of the southeastern part of the Adams Lake property

Eagle Bay Assemblage

The Sicamous Formation, Unit EBl, covers a large part of the southeastern claim block (Figure 5). It includes dominantly light to dark grey to black calcareous phyllite, impure marble or limestone, and minor argillite and argillaceous siltstone. The limestone and calcareous phyllites are commonly banded with light and dark layers that parallel the prominent schistosity throughout the area. The limestone commonly contains irregular veins and blebs of light coloured calcite, or calcite-quartz with occasional sulphides. The more northern exposures, in the northwestern part of the map area, are more siliceous and commonly include quartz “sweats” with minor sulphide content.

The Sicamous Formation is overlain by mainly metavolcanics of Unit EBa-EBf. A prominent “greenstone” unit, EBg, is exposed between these units in the eastern part of the map area (Figure 5). It is not well exposed and hence could not be traced farther east than is shown in the map. It comprises chlorite phyllite and, less commonly, more granular massive feldspar-chlorite-hornblende units. Of note is a thin semi-massive sulphide layer within the unit; it is described in more detail below.

The overlying unit, referred to as EBa-EBf (from Schiarizza and Preto, 1987), comprises a dominantly micaceous schist and phyllite. It appears to be in sharp contact with Unit EBl, and in previous mapping (Seabrook and Höy, 2012), this contact was inferred to be a fault. In this study, however, the contact is assumed to be stratigraphic although it is probable that some shearing occurs along it. The unit comprises mainly silver to light grey coloured, siliceous micaceous phyllite and tan-coloured quartz-sericite phyllite. Some thin pale green phyllite layers and rare chlorite phyllite layers occur within the sequence. Locally, the unit contains finely disseminated pyrite and weathers to a light brown to tan colour. Quartz or quartz-carbonate veins are common, and these locally contain pyrite and minor chalcopyrite.

Dykes

A suite of north-northeast trending, steeply dipping dykes (Unit Qp) cuts through the western and central part of the area. The dykes are tan to white in colour, fine grained with quartz grains and occasional white plagioclase grains scattered throughout. They are usually massive or exhibit flow banding textures, cutting Eagle Bay assemblage rocks. Finely disseminated pyrite occurs locally, and jarosite alteration coats fractures or is pervasive throughout the units. Quartz veining and silicified breccia zones, commonly with relatively intense limonite and manganese alteration and minor pyrite, also occur locally within these dykes. As noted below, two of these zones or veins were analyzed but contained less than detectable gold.

Fine-grained, mafic to intermediate dykes often parallel the quartz porphyry dykes. However, these usually comprise a small proportion of the dyke complex and are generally not distinguished on the map. An aphanitic mafic black dyke with considerable disseminated magnetite is shown in the northwestern part of the area (Figure 5).

Mineralization

Mineralization in the northwestern part of the area, including several BC MINFILE occurrences, is described by Seabrook and Höy (2012). They were not examined in this study.

The most important area of mineralization in the southeastern part of the property, discovered in 2011 and described by Seabrook and Höy (*op. cit.*), is a stratabound zone of base and precious metal mineralization within mafic metavolcanics of Unit EBg. The zone is approximately 1 m wide and can be traced in the road cut for approximately 10 meters. It contains “seven parallel boudinaged quartz-pyrite-chalcopyrite lenses” (p. 14) that range from 1 to 5 cm in thickness. Host rocks are intensely silicified and sericite altered, with considerable malachite and limonite staining. Two samples that were analyzed in 2011 assayed 0.51% and 1% Cu, and 217.9 and 252.6 ppp Au (Seabrook and Höy, 2012).

The zone was revisited in 2014, mainly in an attempt to determine its extent or zones of possible thickening or enrichment. Outcrop in the area is essentially restricted to isolated exposures in road cuts and, hence, the zone could not be traced either east or west, covered in overburden. The host chlorite phyllite does, however, continue approximately 200 to 300 meters to the west and continues to the edge of mapping, 700 to 800 meters to the east (Figure 5). Two samples of the sulphide mineralization were submitted for analyses and both returned >10,000 ppm copper and anomalous gold: 126.3 and 48.7 ppb (Appendix 3).

The zone is of interest as it appears to be a thin volcanogenic sulphide layer within a silicified and possibly potassic altered mafic volcanic unit. Further work should be directed towards determining its strike length, initially by soil geochemistry and a ground VLF-EM magnetic survey.

Several other samples were taken of limonite altered quartz veins throughout the southeastern part of the property. They are described in Appendix 3. Gold values were low to undetectable in all samples (Appendix 3).

Conclusions and Recommendations

Geological mapping of the southeastern part of the Adams Lake property was mainly directed towards evaluating the property for both volcanogenic base metal and gold mineralization. An attempt was made to trace a thin semi-massive sulphide layer that was discovered in 2011; however, due to extensive overburden in the immediate area, this was not possible although the host mafic volcanic succession was recognized through a strike length of approximately 1 km. Several quartz veins and quartz breccia zones were analyzed but these only returned trace to undetectable gold values.

Any additional work in the area should be directed towards determining the thickness and extent of the sulphide layer, initially through a soil geochemical and a VLF-EM survey. No further work is recommended in the area underlain by the mainly impure limestones in the southwestern part of the mapped area.

Acknowledgements

I would like to thank G. M. DeFields for her assistance in the field. Discussions with M. Seabrook are much appreciated.

References

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Appendix 1: Statement of Qualifications

I, Trygve Höy, PhD., P. Eng. do hereby certify that:

1. I attained the degree of Doctor of Philosophy (PhD) in geology from Queens University, Kingston, Ontario in 1974.
2. I have an MSc. in Geology from Carleton University, Ottawa, Ontario (1970), and a BSc. in Geology from the University of British Columbia (1968).
3. I am a member of the Association of Professional Engineers and Geoscientists of BC. and a member of the Society of Economic Geologists.
4. I have worked as a geologist for a total of 38 years since my graduation from university, 27 years as a project geologist with the B.C. Geological Survey Branch and 11 years as an independent consulting geologist.
5. I mapped the Adams Lake property for Rogue Resources Inc. in May and early June, 2014 and collected all samples for analyses.
6. I am responsible for the preparation of this report entitled: entitled “**Geological mapping and prospecting, Adams Lake property, southern British Columbia**”, dated September 15, 2014

Dated this 15th Day of September, 2014.

Trygve Höy, P.Eng; PhD

Appendix 2

Statement of Costs

Geology: T. Hoy	10 days @ \$525.00/day	
	(June 2-June 12, 2014)	\$5250.00
Truck rental	10 days @ \$65/day	650.00
Truck gasoline		384.71
Assistant:	10 days @ \$250/day	2500.00
Accommodation:		915.30
Total food and meals:		413.51
Travel (ferry costs):		142.60
Analyses (8 samples @ \$34)		272.00
Shipping		24.00
Compilation and report:	4 days @ \$500.00	\$2000.00
Total:		\$12,552.12

Appendix 3

Description and analyses of samples

- All samples collected by Trygve Höy in May and June, 2014
- Samples were shipped via Greyhound bus to Acme Analytical Laboratories in Vancouver, B.C. for multi-element analyses, as described below.
- All samples are composite samples, and may not be representative of mineralized unit.

Adams Lake property, 2014 sample descriptions

Sample	UTM E	UTM N	description
AL-01	321197	5648323	quartz vein, jarosite altered,
AL-05	320774	5647700	grey, green phyllite, slightly rusty, pyrite, cp, malachite staining
AL-06	320761	5647696	quartz vein, limonite, cp, malachite, pyrite
AL-12	320241	5647925	quartz vein, minor limonite, minor siderite, cp specks
AL-18	319227	5648607	quartz vein, limonite specks after pyrite?, minor diss. pyrite
AL-45	320313	5647547	quartz vein, considerable light brown limonite, c.g., vuggy
AL-135	317616	5647054	quartz vein, minor limonite, sericite, c.g.
AL-139	317358	5647298	quartz vein, jarosite altered, minor sericite



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client:

Rogue Resources

202 - 200 Granville Square
Vancouver BC V6C 1S4 Canada

Submitted By: Freeman Smith

Receiving Lab: Canada-Vancouver

Received: August 12, 2011

Report Date: September 16, 2011

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN11003887.1

CLIENT JOB INFORMATION

Project: ADAMS LAKE
Shipment ID:
P.O. Number
Number of Samples: 38

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	38	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	38	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Rogue Resources
202 - 200 Granville Square
Vancouver BC V6C 1S4
Canada

CC: Michael Seabrook
Trygve Hoy



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.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"***" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Acme Analytical Laboratories (Vancouver) Ltd.

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Client:

Rogue Resources
202 - 200 Granville Square
Vancouver BC V6C 1S4 Canada

Project:

ADAMS LAKE

Report Date:

September 16, 2011

Page:

2 of 3

Part 1

CERTIFICATE OF ANALYSIS

VAN11003887.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ADTK-001	Rock	0.77	0.3	241.2	6.5	13	1.8	1.1	4.8	328	1.25	0.6	45.1	20.6	29	0.1	<0.1	0.6	5	0.68	0.016
ADTK-002	Rock	0.90	0.4	1213	8.6	28	1.2	4.1	8.4	635	1.73	<0.5	2.0	17.0	5	<0.1	<0.1	0.2	9	0.05	0.015
ADTK-003	Rock	0.86	1.0	9.9	67.2	198	0.7	2.1	1.2	1795	1.42	1.7	14.5	2.6	95	0.7	<0.1	0.6	<2	1.71	0.023
ADTK-004	Rock	1.05	1.0	23.7	7.1	21	0.1	0.7	2.0	1957	1.59	2.3	0.9	2.1	79	<0.1	0.1	0.3	<2	1.67	0.022
ADTK-005	Rock	0.68	0.2	6.6	5.8	20	0.3	0.9	3.3	304	1.05	<0.5	6.9	11.1	17	<0.1	<0.1	0.1	5	0.63	0.023
ADTK-006	Rock	1.22	7.1	5.3	10.0	29	0.1	2.3	5.3	418	1.67	2.3	2.5	16.7	16	0.1	<0.1	0.5	9	0.28	0.021
ADTK-007	Rock	0.63	10.2	9.2	7.5	42	0.4	1.9	4.3	395	2.04	<0.5	8.8	17.9	14	<0.1	0.4	0.3	16	0.16	0.025
ADTK-008	Rock	0.94	1.4	44.1	296.3	53	9.3	1.6	4.2	633	1.79	16.5	8.3	10.8	7	<0.1	<0.1	28.4	<2	0.05	0.018
ADTK-009	Rock	0.38	45.1	8744	27.5	188	20.9	15.4	45.3	207	2.54	7.0	5.1	1.0	3	2.0	0.7	0.2	<2	0.03	0.014
ADTK-010	Rock	0.38	0.5	116.7	5.4	8	0.5	0.5	1.1	157	0.55	<0.5	<0.5	3.2	3	<0.1	<0.1	0.2	<2	0.03	0.011
ADTK-011	Rock	0.42	1.1	41.6	47.2	30	0.7	2.6	6.4	563	4.43	2.1	9.1	5.3	4	<0.1	<0.1	1.5	5	0.02	0.009
ADTK-012	Rock	0.70	2.7	266.5	2378	167	4.2	0.9	7.1	215	4.79	189.3	48.5	14.8	6	0.1	0.9	6.6	5	0.03	0.020
ADTK-013	Rock	0.45	0.3	7.3	5.9	<1	0.3	0.7	0.4	30	0.60	<0.5	3.2	<0.1	<1	<0.1	<0.1	0.7	<2	<0.01	<0.001
ADTK-014	Rock	0.78	3.9	59.3	1102	992	2.7	0.6	3.4	23	2.39	116.5	88.4	9.1	4	2.8	1.9	3.0	<2	0.02	0.013
ADTK-015	Rock	0.86	2.4	213.7	1361	561	3.4	2.4	18.6	837	2.51	82.4	74.8	15.1	26	1.5	0.4	3.1	<2	0.58	0.013
ADTK-016	Rock	1.22	3.0	6988	1278	411	31.2	1.9	189.0	154	23.00	1777	1129	6.6	2	0.8	5.5	27.9	3	<0.01	0.005
ADTK-017	Rock	1.24	138.8	11.8	107.1	22	0.7	0.8	1.8	147	0.89	1.3	4.3	15.5	4	<0.1	<0.1	2.1	3	0.03	0.014
AL11-01	Rock	0.54	1.2	9.0	13.8	2	0.4	0.5	1.0	21	0.60	7.6	7.3	6.2	5	<0.1	0.9	0.2	<2	<0.01	0.005
AL11-02	Rock	0.59	0.6	8.8	11.8	229	0.2	0.6	2.3	1346	2.53	1.3	6.4	1.7	191	0.9	<0.1	0.6	<2	1.77	0.030
AL11-03	Rock	0.58	0.4	729.3	453.1	885	1.6	0.7	1.1	529	1.11	2.1	8.7	3.3	5	2.5	0.1	1.2	<2	0.03	0.015
AL11-04	Rock	0.54	0.6	12.5	7.0	224	<0.1	0.7	2.1	659	0.61	2.0	4.0	1.2	4	0.7	<0.1	0.1	<2	0.02	0.003
AL11-05	Rock	0.51	3.9	1044	8.6	26	4.0	0.6	5.3	557	1.08	1.2	8.6	14.5	25	<0.1	<0.1	0.2	3	0.82	0.028
AL11-06	Rock	0.45	19.8	769.9	3.7	20	0.5	0.8	5.9	148	1.06	0.9	4.9	15.9	18	0.1	<0.1	0.1	3	0.15	0.033
AL11-07	Rock	0.69	3.2	877.2	4.6	27	0.1	1.0	10.5	413	1.73	2.3	5.9	16.5	10	<0.1	<0.1	0.2	3	0.08	0.029
AL11-09	Rock	0.65	48.0	3.3	66.1	8	0.4	0.9	1.0	124	0.50	<0.5	8.6	9.2	3	<0.1	<0.1	5.5	4	0.01	0.002
AL11-10	Rock	0.74	<0.1	6.8	2.7	5	0.1	1.2	1.9	388	0.60	0.8	6.4	18.1	93	<0.1	<0.1	0.1	<2	1.83	0.013
AL11-11	Rock	0.45	1.5	351.9	24.4	35	1.9	3.6	6.4	254	2.16	38.0	18.9	2.5	8	<0.1	0.3	0.7	5	0.03	0.008
AL11-12	Rock	0.70	11.4	18.9	32.3	40	0.4	1.3	2.6	290	1.25	0.6	8.0	3.5	4	0.3	0.1	0.8	10	0.07	0.004
AL11-13	Rock	0.51	2.2	28.0	26.9	51	0.3	1.0	2.8	271	0.96	<0.5	3.0	5.5	4	0.2	0.1	0.6	8	0.07	0.023
AL11-14	Rock	0.49	41.9	60.5	66.0	29	0.6	1.9	3.6	195	2.93	1.7	8.8	8.9	12	<0.1	<0.1	1.1	14	0.14	0.068



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September 16, 2011

Page:

2 of 3

Part 2

CERTIFICATE OF ANALYSIS

VAN11003887.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
ADTK-001	Rock	25	5	0.22	67	0.002	<1	0.54	0.035	0.18	<0.1	0.02	1.0	<0.1	<0.05	2	<0.5
ADTK-002	Rock	19	2	0.34	56	0.011	<1	0.68	0.056	0.13	<0.1	0.02	1.3	<0.1	<0.05	2	<0.5
ADTK-003	Rock	3	9	0.48	27	0.001	<1	0.57	0.007	0.06	0.2	0.01	0.5	<0.1	0.16	1	<0.5
ADTK-004	Rock	6	3	0.57	10	0.004	<1	0.62	0.006	0.08	<0.1	0.01	0.6	<0.1	0.18	1	<0.5
ADTK-005	Rock	13	6	0.21	34	0.001	<1	0.31	0.040	0.08	0.1	0.01	0.8	<0.1	0.24	1	<0.5
ADTK-006	Rock	55	3	0.41	36	0.002	<1	0.67	0.011	0.16	<0.1	0.01	1.3	<0.1	0.57	3	<0.5
ADTK-007	Rock	17	5	0.61	54	0.002	<1	0.83	0.013	0.12	0.2	0.01	1.3	<0.1	0.43	4	<0.5
ADTK-008	Rock	10	2	0.47	26	0.008	<1	0.88	0.006	0.14	0.2	<0.01	0.8	<0.1	0.39	1	<0.5
ADTK-009	Rock	3	6	0.04	6	<0.001	<1	0.07	0.006	0.01	0.2	0.01	0.2	0.6	1.42	<1	2.4
ADTK-010	Rock	7	2	0.12	15	0.003	<1	0.14	0.017	0.04	<0.1	<0.01	0.4	<0.1	0.06	<1	<0.5
ADTK-011	Rock	4	7	0.45	12	0.004	<1	0.49	0.049	0.02	0.2	<0.01	2.0	<0.1	1.28	2	<0.5
ADTK-012	Rock	7	1	0.36	37	0.001	<1	0.60	0.007	0.16	<0.1	0.02	0.6	<0.1	1.28	3	1.3
ADTK-013	Rock	<1	8	<0.01	3	<0.001	<1	0.01	0.009	<0.01	0.2	<0.01	<0.1	<0.1	0.11	<1	<0.5
ADTK-014	Rock	10	4	0.01	70	0.001	<1	0.21	0.006	0.23	0.1	0.12	0.3	0.2	1.15	<1	<0.5
ADTK-015	Rock	10	1	0.32	48	0.003	<1	0.48	0.005	0.28	0.3	<0.01	0.6	0.2	1.76	1	<0.5
ADTK-016	Rock	2	2	0.24	10	0.004	<1	0.49	0.002	0.10	0.2	0.02	0.7	0.2	>10	2	2.8
ADTK-017	Rock	10	2	0.13	23	<0.001	<1	0.39	0.015	0.17	0.3	0.01	0.5	0.1	0.15	<1	<0.5
AL11-01	Rock	20	6	<0.01	168	0.001	<1	0.15	0.002	0.19	0.1	0.03	0.2	<0.1	0.22	<1	<0.5
AL11-02	Rock	4	3	0.17	19	<0.001	<1	0.09	0.015	0.02	<0.1	0.04	2.6	<0.1	<0.05	<1	<0.5
AL11-03	Rock	4	8	0.15	14	0.001	<1	0.23	0.023	0.04	0.1	0.09	0.5	<0.1	0.14	<1	<0.5
AL11-04	Rock	2	3	0.15	19	<0.001	<1	0.18	0.015	0.03	<0.1	0.06	0.3	<0.1	<0.05	<1	<0.5
AL11-05	Rock	8	5	0.33	54	0.001	<1	0.47	0.037	0.13	<0.1	0.03	0.9	<0.1	0.16	1	<0.5
AL11-06	Rock	16	2	0.17	155	0.013	<1	0.42	0.033	0.25	<0.1	0.03	0.9	<0.1	0.21	2	<0.5
AL11-07	Rock	18	4	0.29	139	0.003	<1	0.58	0.032	0.17	0.1	0.04	1.2	<0.1	0.32	2	<0.5
AL11-09	Rock	6	3	0.05	17	0.002	<1	0.20	0.004	0.18	0.2	0.02	0.3	0.1	<0.05	<1	<0.5
AL11-10	Rock	19	5	0.18	35	<0.001	<1	0.32	0.039	0.11	<0.1	0.02	0.7	<0.1	0.06	1	<0.5
AL11-11	Rock	2	3	0.38	27	0.004	<1	0.34	0.011	0.03	<0.1	0.02	0.9	<0.1	1.28	1	<0.5
AL11-12	Rock	12	7	0.22	15	0.001	<1	0.40	0.002	0.16	1.0	0.04	0.4	0.1	0.31	2	<0.5
AL11-13	Rock	12	5	0.49	16	0.002	<1	0.56	0.002	0.11	0.4	0.04	1.0	<0.1	0.09	2	<0.5
AL11-14	Rock	10	8	0.33	17	0.041	<1	0.50	0.030	0.06	<0.1	0.02	3.3	<0.1	0.31	3	<0.5



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Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN11003887.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
AL11-15	Rock	0.67	0.7	16.4	130.6	116	0.5	17.8	11.5	947	6.10	0.8	3.3	2.5	83	0.3	<0.1	1.3	62	1.91	0.066
AL11-16	Rock	0.82	0.9	43.6	888.6	62	2.3	13.2	15.2	820	2.94	2.9	7.8	5.0	95	0.2	<0.1	4.6	21	2.66	0.072
AL11-17	Rock	0.72	6.5	11.8	2723	33	51.2	1.5	7.4	515	2.99	0.7	18.3	3.5	20	0.3	<0.1	110.9	11	0.29	0.116
SCTK-001	Rock	1.65	1.0	22.6	169.9	491	0.8	27.7	18.9	1472	5.08	43.4	14.0	0.9	260	1.3	0.3	0.6	14	8.92	0.109
SCTK-002	Rock	0.86	1.1	20.3	8.5	60	<0.1	47.3	21.3	1085	5.05	23.2	4.9	1.1	435	0.1	0.2	0.2	35	6.51	0.107
SCTK-003	Rock	0.46	0.6	69.3	46.8	14	0.4	12.6	9.8	956	2.51	1.3	5.6	2.0	100	<0.1	0.3	0.6	<2	1.68	0.003
SC11-01	Rock	0.66	0.2	5.3	35.0	15	0.1	6.7	2.8	482	1.02	2.5	4.0	2.7	19	<0.1	0.1	0.5	<2	0.16	0.025
AL 1107	Rock	1.42	40.7	944.0	23.8	43	1.0	8.1	57.5	424	5.74	68.3	25.6	8.9	40	<0.1	1.4	0.9	7	0.72	0.132



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Page: 3 of 3 **Part** 2

CERTIFICATE OF ANALYSIS

VAN11003887.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AL11-15	Rock	5	4	1.58	39	0.006	<1	1.77	0.012	0.06	<0.1	0.02	4.8	<0.1	0.68	6	<0.5	0.5
AL11-16	Rock	6	9	0.92	44	0.009	<1	0.94	0.029	0.04	0.1	0.01	3.6	<0.1	0.52	3	1.3	2.0
AL11-17	Rock	5	3	0.48	7	0.038	<1	0.49	0.041	0.01	<0.1	0.02	2.8	<0.1	1.42	2	3.5	11.4
SCTK-001	Rock	8	9	2.14	13	<0.001	<1	0.20	0.046	0.04	<0.1	<0.01	9.4	<0.1	<0.05	<1	<0.5	0.2
SCTK-002	Rock	9	51	2.59	7	0.002	1	0.60	0.054	0.03	<0.1	<0.01	9.1	<0.1	<0.05	3	<0.5	<0.2
SCTK-003	Rock	3	13	0.28	4	<0.001	<1	0.05	0.017	0.01	<0.1	0.02	0.8	<0.1	0.19	<1	<0.5	0.2
SC11-01	Rock	8	7	0.07	15	<0.001	<1	0.13	0.011	0.04	<0.1	0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
AL 1107	Rock	30	4	0.61	39	0.038	<1	1.07	0.006	0.64	0.1	<0.01	1.9	0.5	2.87	3	2.2	0.2



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Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN11003887.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
ADTK-003	Rock	0.86	1.0	9.9	67.2	198	0.7	2.1	1.2	1795	1.42	1.7	14.5	2.6	95	0.7	<0.1	0.6	<2	1.71	0.023
REP ADTK-003	QC		0.9	8.7	64.8	188	0.8	2.2	1.3	1761	1.32	1.6	14.9	2.6	95	0.6	<0.1	0.6	<2	1.68	0.022
REP ADTK-017	QC		143.3	11.8	113.5	23	0.6	0.9	1.9	149	0.93	1.4	4.4	17.1	4	<0.1	<0.1	2.3	3	0.03	0.013
REP ADTK-017	QC		154.8	12.7	119.8	25	0.7	0.9	2.1	162	1.00	1.6	2.7	17.8	4	0.1	<0.1	2.4	4	0.04	0.014
AL11-01	Rock	0.54	1.2	9.0	13.8	2	0.4	0.5	1.0	21	0.60	7.6	7.3	6.2	5	<0.1	0.9	0.2	<2	<0.01	0.005
REP AL11-01	QC		1.2	8.0	13.1	2	0.4	0.4	0.9	19	0.54	7.1	6.8	5.6	4	<0.1	0.8	0.2	<2	<0.01	0.005
Core Reject Duplicates																					
ADTK-017	Rock	1.24	138.8	11.8	107.1	22	0.7	0.8	1.8	147	0.89	1.3	4.3	15.5	4	<0.1	<0.1	2.1	3	0.03	0.014
DUP ADTK-017	QC		146.7	51.8	120.6	24	0.8	1.1	2.4	161	1.02	4.9	4.7	16.9	4	<0.1	0.1	2.3	3	0.03	0.014
Reference Materials																					
STD DS8	Standard		14.1	113.5	126.6	319	1.9	40.2	8.0	633	2.61	25.6	115.1	7.5	75	2.4	5.9	7.7	42	0.75	0.083
STD DS8	Standard		11.4	117.2	128.7	296	1.7	35.8	6.8	536	2.24	23.2	110.0	7.4	70	2.2	5.9	7.6	38	0.65	0.076
STD DS8	Standard		14.1	119.4	136.7	325	1.8	42.0	8.3	628	2.58	25.2	116.2	7.5	66	2.2	5.7	7.1	42	0.73	0.085
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	4.6	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	2.0	3.7	44	0.3	1.5	3.6	510	1.86	<0.5	11.3	5.8	71	<0.1	<0.1	0.2	35	0.42	0.076
G1	Prep Blank	<0.01	<0.1	2.3	3.9	42	<0.1	1.6	3.6	501	1.76	0.6	1.5	5.4	64	<0.1	<0.1	0.1	34	0.48	0.074



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ADAMS LAKE

Report Date:

September 16, 2011

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN11003887.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.1	0.05	1	0.5
Pulp Duplicates																		
ADTK-003	Rock	3	9	0.48	27	0.001	<1	0.57	0.007	0.06	0.2	0.01	0.5	<0.1	0.16	1	<0.5	0.5
REP ADTK-003	QC	3	10	0.47	25	0.001	<1	0.57	0.007	0.06	0.1	<0.01	0.5	<0.1	0.15	1	<0.5	0.5
REP ADTK-017	QC	11	2	0.13	23	<0.001	<1	0.41	0.017	0.18	0.3	<0.01	0.6	0.1	0.15	1	<0.5	0.4
REP ADTK-017	QC	12	3	0.14	27	0.001	<1	0.44	0.016	0.19	0.3	<0.01	0.6	0.1	0.17	1	<0.5	0.4
AL11-01	Rock	20	6	<0.01	168	0.001	<1	0.15	0.002	0.19	0.1	0.03	0.2	<0.1	0.22	<1	<0.5	<0.2
REP AL11-01	QC	19	6	<0.01	152	0.001	<1	0.14	0.002	0.18	0.1	0.03	0.2	<0.1	0.21	<1	<0.5	<0.2
Core Reject Duplicates																		
ADTK-017	Rock	10	2	0.13	23	<0.001	<1	0.39	0.015	0.17	0.3	0.01	0.5	0.1	0.15	<1	<0.5	0.4
DUP ADTK-017	QC	11	2	0.14	26	0.001	<1	0.44	0.018	0.19	0.2	<0.01	0.5	0.1	0.19	1	<0.5	0.4
Reference Materials																		
STD DS8	Standard	16	122	0.63	285	0.133	2	0.94	0.085	0.43	3.2	0.21	2.2	5.6	0.16	5	5.9	5.6
STD DS8	Standard	14	105	0.57	258	0.124	2	0.85	0.080	0.40	3.1	0.19	2.1	5.2	0.16	4	5.0	4.5
STD DS8	Standard	15	125	0.64	283	0.126	2	1.02	0.121	0.46	2.9	0.22	2.3	5.7	0.16	5	5.0	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	12	6	0.45	113	0.110	2	0.75	0.059	0.39	0.1	0.02	1.7	0.3	<0.05	4	<0.5	0.2
G1	Prep Blank	12	4	0.47	115	0.117	1	0.77	0.060	0.40	<0.1	0.02	1.8	0.3	<0.05	4	<0.5	<0.2

