

Ministry of Energy & Mines  
Energy & Minerals Division  
Geological Survey Branch

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)]	TOTAL COST
2010 Exploration and Prospecting At The Perry River Property	\$25,646.00

AUTHOR(S) **Matthew Carter, Geol. I.T.; Andy Hoffman, Geol. I.T.** SIGNATURE(S) \_\_\_\_\_

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) \_\_\_\_\_ YEAR OF WORK **2010**

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) **Event No. 4810290 (November 16, 2010)**

PROPERTY NAME **PERRY RIVER CLAIMS**

CLAIM NAME(S) (on which work was done) **PERRY 1 - 11**

COMMODITIES SOUGHT **RARE EARTH ELEMENTS**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN \_\_\_\_\_

MINING DIVISION **Kamloops** NTS **82 M / 02,07**

LATITUDE **51** ° **16** ' **26** " LONGITUDE **118** ° **39** ' **58** " (at centre of work)

OWNER(S)

1) **Jody Richard Dahrouge** 2) \_\_\_\_\_

MAILING ADDRESS

**11 Country Lane**

**Stony Plain, AB T7Z 2T2**

OPERATOR(S) [who paid for the work]

1) **Zimtu Capital Corp.** 2) **877384 Alberta Ltd.**

MAILING ADDRESS

**Suite 1450, 789 West Pender Street** **Suite 18, 10509 - 81 Ave**

**Vancouver, BC V6C 1H2** **Edmonton, AB T6E 1X7**

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

**Rare Earth Elements, Shuswap Metamorphic Terrane, Frenchman Cap, Monashee Complex, Monashee Decollement**

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS \_\_\_\_\_

**1983: Assessment Report 11639; 1988 Assessment Report 17182; 2007: Assessment Report 29901**

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL</b>			
(number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock _____	<b>53</b>	<b>PERRY 1-11</b>	<b>\$ 3,056.51</b>
Other _____			
<b>DRILLING</b>			
(total metres; number of holes, size)			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____	<b>(1:100,000)</b>	<b>PERRY 1-11</b>	<b>\$ 22,589.49</b>
<b>PREPARATORY/PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
<b>TOTAL COST</b>			<b>\$ 25,646.00</b>

**BC Geological Survey  
Assessment Report  
31983**

**877384 ALBERTA LTD. AND ZIMTU CAPITAL CORP.**

**2010 EXPLORATION AND PROSPECTING  
AT THE PERRY RIVER PROPERTY**

**KAMLOOPS MINING DIVISION**

**MINERAL TENURES**

**671063 671083 671103 671104  
671123 671143 671144 671163  
671183 671203 671583**

**Geographic Coordinates**

**51° 16' 26" N  
118° 39' 58" W**

**NTS Sheets 82M / 02, 07**

**Owner/Operator(s):** 877384 Alberta Ltd.  
Suite 18, 10509 - 81 Ave  
Edmonton, AB T6E 1X7

Zimtu Capital Corp.  
Suite 1450 – 789 West Pender Street  
Vancouver, BC V6C 1H2

**Consultant:** Dahrouge Geological Consulting Ltd.  
Suite 18, 10509 - 81 Ave  
Edmonton, AB T6E 1X7

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Andy Hoffman, B.Sc. Geol.I.T.

**Date Submitted:** January 7, 2011  
**Date Revised:** April 26, 2011

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## **1.0 INTRODUCTION**

The Perry River Property is comprised of eleven contiguous claims totalling 5438.5 ha. Jody R. Dahrouge acquired the eleven claims, Perry 1 – Perry 11, in November 2009 and has held them in trust for 877384 Alberta Ltd. (877384) and its co-operator Zimtu Capital Corp. (Zimtu). Dahrouge Geological Consulting Ltd. (Dahrouge) of Edmonton, Alberta, conducted a prospecting program on August 19<sup>th</sup>, 23<sup>rd</sup>, 26<sup>th</sup>, 28<sup>th</sup>, 29<sup>th</sup>, 31<sup>st</sup> and September 3<sup>rd</sup>, 2010 at the request of 877384 and Zimtu. Fieldwork focused primarily on a preliminary geological assessment of carbonatites and related rocks on the property and their potential for hosting rare earth element (REE) and rare metal mineralization, with a secondary consideration of base and precious metals. During the course of the field program, a total of 53 rock samples were collected from the Perry River property; analytical results will be discussed in Section 5.0.

## **1.1 GEOGRAPHIC SETTING**

### **1.1.1 Location and Access**

The approximate center of the Perry River Property is located roughly 46 km northwest of Revelstoke, British Columbia (Figure 1.1). Perry River-North Fork Road, which is located about 43 kilometres west of Revelstoke along the Trans Canada Highway (TCH) and approximately one kilometre south of the Perry River Bridge, grants access to the property (Figure 1.2). Running along the west bank of the Perry River, Perry River-North Fork Road acts as a main service road for forestry operations in the area, paralleling the riverbed northward for nearly 28 km. The boundaries of the Perry River Property can be reached about four kilometres north from where Perry River-North Fork Road branches away from the course of the Perry River. From here an ATV can reach the lower parts of the claims, whereas higher elevations must be traversed on foot or accessed with helicopter support. Additionally western sections of the property are accessible from the Gorge Creek Road just off of the TCH at Craigellachie, roughly 48 km west of Revelstoke. Active forest service roads branching northward for roughly 30 km from Gorge Creek Road provide access to the Fifth Creek Forest Service Road, which runs almost directly into the property; the last few kilometres of the Fifth Creek Forest Service Road narrow making them passable only by ATV or on foot.

### 1.1.2 Topography, Vegetation, and Climate

Located in the Monashee Mountains, property topography ranges from 1000 m to 2500 m elevation above sea level, with surrounding local topography ranging anywhere from 600 m to 2600 m elevation above sea level. Temperatures in the area normally range from  $-15^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$ , with precipitation typically averaging between 120 cm to 160 cm per year. Continuous snow cover usually extends from early November to May, with a snowpack commonly exceeding a meter in thickness. Vegetation in the region is dominated by dense coniferous forest, which includes varieties of spruce, cedar, hemlock, fir, pine and larch. Deciduous trees and shrubs such as aspen, willow, alder, and devil's club also occur throughout the area, along with a variety of fruit-bearing plants including wild raspberry and wild thimbleberry. Tree and plant populations become increasingly sparse above the standing tree line, which is at roughly 1600 m and 2000 m above sea level on steep and gentle slopes, respectively.

## 1.2 PROPERTY

Jody R. Dahrouge staked the Perry River claims in 2009 and has held them in trust for 877384 Alberta Ltd and its co-operator Zimtu Capital Corp. The Perry River Property refers to eleven contiguous claims, Perry 1 through 11, located within the Kamloops Mining Division and totalling 5338.5 ha (Figure 1.3, Table 1.1).

**Table 1.1: Perry River Claims**

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Issue Date</b>	<b>Valid Until</b>	<b>Area (ha)</b>
671063	PERRY 1	11/18/2009	18/11/2011	485.03
671083	PERRY 2	11/18/2009	18/11/2011	485.21
671103	PERRY 3	11/18/2009	18/11/2011	464.83
671104	PERRY 4	11/18/2009	18/11/2011	505.49
671123	PERRY 5	11/18/2009	18/11/2011	505.49
671143	PERRY 6	11/18/2009	18/11/2011	505.57
671144	PERRY 7	11/18/2009	18/11/2011	485.68
671163	PERRY 8	11/18/2009	18/11/2011	506.17
671183	PERRY 9	11/18/2009	18/11/2011	485.08
671203	PERRY 10	11/18/2009	18/11/2011	505.03
671583	PERRY 11	11/19/2009	19/11/2011	504.92

### 1.3 HISTORY AND PREVIOUS INVESTIGATIONS

Interest in the Perry River area was first sparked in 1905 when Cotton Belt Mines Ltd. discovered a stratiform magnetite-lead-zinc deposit, the Cottonbelt, just a few kilometres northwest of the Perry River Property at Mount Grace (Höy, 1987; Gibson and Höy, 2007). This initial discovery was followed by years of intermittent surface and underground exploration on the Cottonbelt and the surrounding area that continued until 1929. Additional information about the history of the Cottonbelt and associated stratiform deposits around Mount Grace is available in Höy (1987) and Gibson and Höy (2007). Wheeler (1965) produced a map of the regional geology for the area, followed shortly by McMillan (1970, 1973), who carried out mapping projects on the west flank of the Frenchman Cap gneiss dome that resulted in the documentation of two types of carbonatites. Type I intrusive carbonatites were noted to have a metasomatized contact of variable extent, being conformable to the bedding in their metasedimentary host rocks, and commonly contacting either a syenite or nepheline syenite gneiss. Conversely, Type II extrusive carbonatites, believed to be of volcanic origin and lacking any kind of metasomatic boundary, were linked with the occurrence of a prominent marble horizon stratigraphically above the carbonatite bodies that was used as a regional marker (McMillan, 1973; McMillan and Moore, 1974). Later mapping of the Mount Grace area by Höy and McMillan (1979) revealed that the discontinuous extrusive carbonatites of the Perry River area were likely related to the extrusive Mount Grace Carbonatite, which has a lateral extent of over 60 km. In 1983, Duval International Corporation conducted a geological and geochemical survey in the area that led to the discovery of the Ratchford Creek/Ren Carbonatite; samples of the Ren carbonatite rendered anomalous values of niobium, cerium and lanthanum (Pilcher, 1983). Teck Exploration Ltd. carried out further work on carbonatites at Ratchford Creek in 1987 which included trenching and silt, rock, and soil sampling programs as well as radiometric and magnetic surveys (Betmanis and Lovang, 1988). Results from Teck's program indicated anomalous values of niobium and light rare earth elements. Further details about the Perry River carbonatites and other occurrences along the west margin of the Frenchman Cap are available in McMillan (1970; 1973), McMillan and Moore (1974), Pilcher (1983), Höy and Kwong (1986), Höy and Pell (1986), Höy (1987), Betmanis and Lovang (1988) and Pell (1994). At the present these carbonatite exposures and associated alkaline rocks are contiguously staked along the western margin of the Frenchman Cap gneiss dome.



#### **1.4 PURPOSE OF WORK**

The purpose of the 2010 fieldwork was to perform preliminary prospecting of the Perry River claims for any signs or exposures of economic mineralization and to document its location and exposed extent. Carbonatite-hosted rare earth element (REE), niobium, and tantalum mineralization was of particular interest for this fieldwork.

### **2.0 REGIONAL GEOLOGY**

The Perry River Property sits along west margins of the Frenchman Cap gneiss dome on the eastern edge of the Shuswap Metamorphic Terrane (Figure 2.1); the oldest core gneisses have been constrained to an age greater than 2.1 Ga, while the youngest core gneisses have generated dates between 1.86 and 2.1 Ga (Armstrong et al., 1991; Crowley, 1997). Pell (1994) divides the Canadian Cordillera into three distinct regions hosting carbonatites and alkaline rocks; of these three zones, the Perry River carbonatites belong to a western grouping, which occur within the Omineca Belt in association with core gneiss complexes deformed under upper amphibolite metamorphic facies during the Columbian Orogeny (Pell, 1994). The Monashee Complex, exposed within a tectonic window below a high angle thrust fault known as the Monashee Decollement, constitutes the core gneisses of the Perry River Property and a succession of unconformable overlying autochthonous cover units (Read and Brown, 1981). These cover units host the extrusive Mount Grace Carbonatite, as well as intrusive carbonatites like those found in the Perry River area, and syenite gneisses.

### **3.0 PROPERTY GEOLOGY**

Lithologies on the Perry River claims consist of members belonging to the Monashee cover sequence described below in Section 3.1. Detailed petrographic descriptions of the Perry River carbonatites, syenites, and fenites are available in McMillan and Moore (1974) and Pell (1994).

#### **3.1 STRUCTURE, STRATIGRAPHY, AND LITHOLOGY**

The basement sequence of the Perry River Property, along the western border of the Frenchman Cap Dome is composed of a series of core gneisses that were structurally subdivided

by Journeay (1982). Journeay's division, starting at the lowest stratigraphic unit, consists of a paragneiss, an orthogneiss, and another paragneiss. Intercalated biotite paragneiss, semi-pelitic or pelitic schist, and quartzofeldspathic gneiss with local intrusions of superimposed potassium feldspar augen gneiss define the first paragneiss. The orthogneiss is identified by potassium feldspar augen gneiss, layered amphibolite, amphibole and orthopyroxene-bearing gneiss, alaskitic gneiss, syenite gneiss, and homogenous biotite gneiss that marks the upper boundary of the orthogneiss. The upper member of the core gneisses, a heterogeneous paragneiss, typically consists of biotite and quartz feldspar schists, amphibole and feldspathic gneisses, and amphibolite (Journeay, 1982; Höy 1987). Immediately overlying the core gneisses is an unconformable sequence of metasedimentary autochthonous rocks. The stratigraphic sequence for the Monashee cover suite in the Perry River area is described as follows after Höy (1987), superseding the sequence described by McMillan (1973). Basal quartzites (Unit 3) lie directly above the core gneisses; these are comprised of successions of pure (ortho) quartzites, feldspathic quartzites, and mica bearing quartzites with localized mica schists. Overlying the basal quartzites are a series of calcareous and pelitic schists, calc-silicate and paragneisses, impure marble, and the extrusive Mount Grace carbonatite layer that occurs in a subdivision of Höy's (1987) stratigraphic sequence (Unit 4c). A white calcite marble (Unit 5) that is used a regional marker is the next member of the sequence and may be underlain by quartzite or impure marble. The last member of the series (Unit 6), bounded at its upper surface by an unconformity, dominantly consists of pelitic schists with horizons of calc-silicate gneiss and rare quartzite layers.

The property and surrounding area have been subject to three episodes of penetrative deformation. The three episodes as characterized by McMillan (1973) and Journeay (1982) are: first generation east-verging, isoclinal and commonly shallow plunging folds; second generation west to southwest-plunging reclined folds and third generation east verging, northwest trending folds that post date metamorphism. The second-generation structures are the most prominent in the Perry River area as this second phase of deformation induced widespread interference patterns and subsequent z-folds (McMillan, 1973). A major reverse fault, the Monashee Decollement sits a few kilometres west of the property, running along the west margin of the Frenchman Cap dome. This west-dipping, high-angle thrust fault separates the Monashee Complex from allochthonous cover that likely moved eastward along the Columbia River Fault Zone during the late Jurassic (Read and Brown, 1981). A series of late stage normal faults, post

dating prior deformation and related to a period of crustal extension, trend northwards throughout the Monashee Complex. Movement along these faults is typically small on the regional scale but some, like the Perry River Fault, can exceed displacements of a kilometre.

## **4.0 EXPLORATION**

### **4.1 ROCK SAMPLES**

Dahrouge Geological Consulting Ltd. collected a total of 58 samples (51 chip samples, 3 talus samples, and 4 float samples) from the Perry River Property as part of a preliminary prospecting program (Figure 4.1). Samples were collected through a combination of foot traverses, ATV surveys, and helicopter support that was provided by the LR Helicopters of Calgary, Alberta. The coordinates of every collection site were recorded from a handheld Garmin GPS MAP 60 and accompanied by structural measurements (magnetic declination of 17.5° E) where outcrop exposures permitted. Lithologies sampled from the Perry River property include syenite gneisses, magnetite-calcite-biotite schists (fenites), carbonatite, feldspathic pegmatites and amphibolites. Nine samples (10-PR-004-2, 10-PR-046, 10-PR-122, 10-PR-124-1, 10-PR-124-4, 10-PR-062-2, 10-PR-008, 10-PR-019-2 and 10-PR-048-2) were selected for detailed petrographic studies conducted at the University of British Columbia in order to determine which minerals host the REE, Nb and Ta in these rocks. Of the samples obtained, 45 chip samples, 5 float samples, and 3 talus samples were sealed in plastic bags and placed into pails for shipping to Acme Analytical Laboratories Ltd. in Vancouver, British Columbia. The samples were prepared according to Acme's R200-250 protocol; prepared samples were fused with lithium metaborate and dissolved in nitric acid prior to whole rock analysis of major and trace elements using ICP-MS, ICP-ES, and LECO (Acme 4A 4B). Analysis of base metals and precious metals, such as Ag, Au, As, Sb, Bi, Tl, Se, and Hg was carried out using ICP-MS according to Acme's 1DX protocols. Acme's analytical certificates are provided in Appendices 2 and 3.

## **5.0 RESULTS AND RECOMMENDATIONS**

Several of the samples collected from the 2010 field program show encouraging results. Total rare earth element, niobium, and yttrium (TREE, Nb, Y) content are summarized in Table 5.1. The samples that returned the best values are highlighted in Table 5.1. Sample 10-PR-004-2, collected from a carbonatite outcrop, had the highest TREE content of all samples collected and is

highlighted in green; it also assayed over 22,000 ppm Sr. Sample 10-PR-124-1, a calcite-biotite-titanite-amphibole granofels, and 10-PR-062-2, a potassium feldspar pegmatite, returned the next highest results. All samples that returned elevated TREE values, excluding float sample 10-PR-063, were chip samples collected from outcrops on the Perry River Property. Further work on the Perry River Property should include a regional sampling and prospecting program focusing on establishing the extent of individual carbonatite bodies and their mineralization.

**Table 5.1: TREE + Y, and Nb Content of Perry River Samples**

<b>Sample</b>	<b>Rock Type</b>	<b>TREE + Y (ppm)</b>	<b>Nb (ppm)</b>
71701	Carbonatite	1463.9	82.8
71702	Fenite	765.5	188.7
71704	Alteration Zone	226.4	28.2
71705	Carbonatite	80.0	6.8
71720	Fenite	1424.6	194.0
71721	Syenite	408.0	145.8
71722	Syenite	176.6	262.3
71723	Feldspathic Pegmatite	86.5	26.4
71724	Ultramafic	48.7	8.0
71725	Schist	202.9	16.7
71726	Amphibolite	198.9	9.7
71727	Schist	404.2	71.5
71728	Alteration Zone	457.0	24.8
71729	Feldspathic Pegmatite	578.8	48.6
71730	Schist	1168.0	236.4
10-PR-002	Hornfels to Granofels	129.5	9.5
10-PR-004-1	Granofels	1364.1	157.7
10-PR-004-2	Carbonatite	7441.3	97.6
10-PR-008	Hornfels to Granofels	628.8	43.1
10-PR-011	Interlayered Gneiss and Hornfels to Granofels	754.5	84.6
10-PR-012	Schist	740.3	262.2
10-PR-013	Syenite Gneiss	288.4	61.7
10-PR-014	Gneiss	315.6	74.6
10-PR-018	Granofels	787.7	113.8
10-PR-019-1	Syenitic Gneiss	1157.9	185.3
10-PR-019-2	Syenitic Gneiss	647.5	155.6
10-PR-020-1	Marble	46.2	3.0
10-PR-020-2	Marble	71.4	4.4
10-PR-020-3	Skarn	1297.3	43.7
10-PR-045	Hornfels to Granofels	132.3	10.0
10-PR-046	Schist	1778.3	227.4
10-PR-047-1	Syenitic Gneiss	99.1	70.2
10-PR-047-2	Feldspathic Quartz Pegmatite	863.7	290.1

10-PR-048-1	Syenitic Gneiss	203.8	197.8
10-PR-048-2	Syenitic Gneiss	168.7	162.6
10-PR-049-1	Granofels	49.7	9.3
10-PR-049-2	Syenitic/Granitic Gneiss	606.0	237.1
10-PR-051	Augen Gneiss	310.6	43.0
10-PR-053-1	Quartz Vein in Gneiss	298.7	69.1
10-PR-053-2	Gneiss	348.9	18.3
10-PR-061	Gneiss	504.6	97.6
10-PR-062-1	Gneiss	261.5	12.0
10-PR-062-2	Pegmatite	2230.3	313.0
10-PR-063	Granofels	1221.1	259.2
10-PR-064-1	Pegmatite	211.0	191.4
10-PR-064-2	Gneiss	217.6	12.9
10-PR-ATV-01	Gneiss	497.0	44.6
10-PR-122	Hornfels to Granofels	1661.9	177.0
10-PR-123	Hornfels to Granofels	338.3	45.3
10-PR-124-1	Granofels	2322.0	594.5
10-PR-124-2	Hornfels to Granofels	634.2	71.2
10-PR-124-3	Hornfels to Granofels	626.4	68.6
10-PR-124-4	Carbonatite/Fenite	1907.5	76.0

## 6.0 REFERENCES

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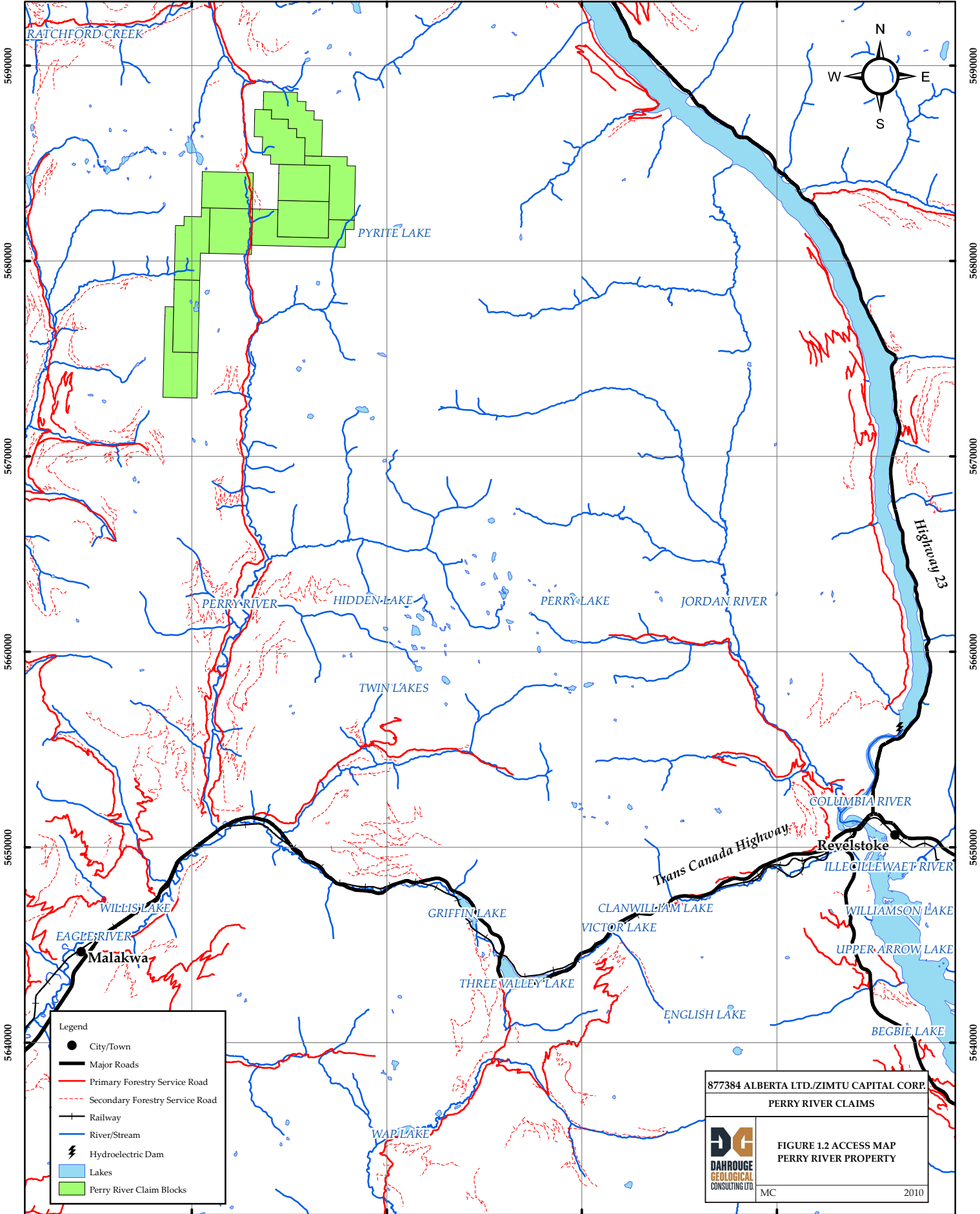


380000

390000

400000

410000



**Legend**

- City/Town
- Major Roads
- Primary Forestry Service Road
- - - Secondary Forestry Service Road
- + Railway
- River/Stream
- ⚡ Hydroelectric Dam
- Lakes
- Perry River Claim Blocks

877384 ALBERTA LTD./ZIMTU CAPITAL CORP  
 PERRY RIVER CLAIMS

**DC**  
 DAHROUGE  
 GEOLOGICAL  
 CONSULTING LTD.

FIGURE 1.2 ACCESS MAP  
 PERRY RIVER PROPERTY

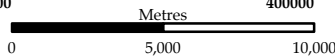
MC 2010

380000

390000

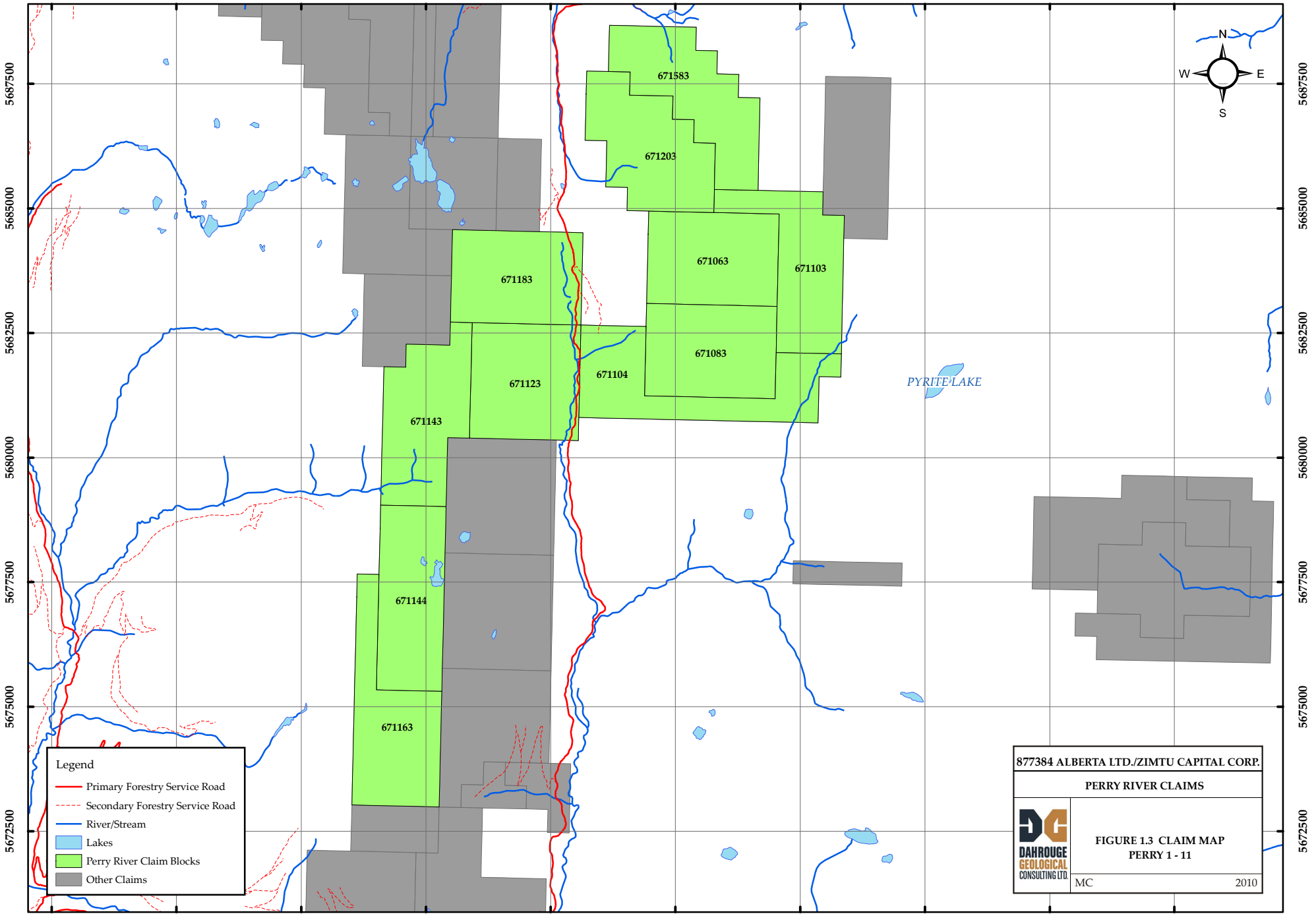
400000

410000





372500 375000 377500 380000 382500 385000 387500 390000 392500 395000

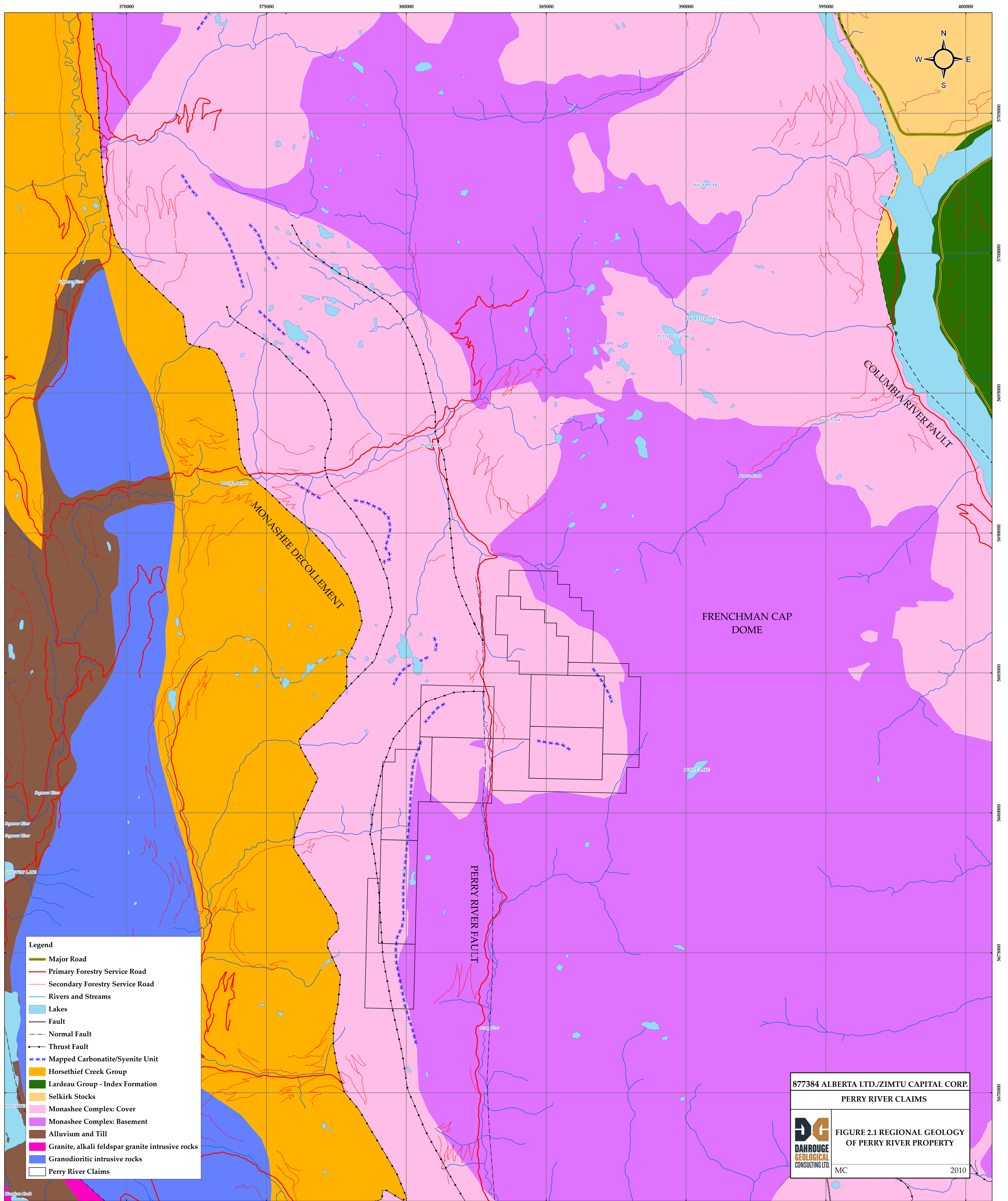


**Legend**

- Primary Forestry Service Road
- - - Secondary Forestry Service Road
- River/Stream
- Lakes
- Perry River Claim Blocks
- Other Claims

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PERRY RIVER CLAIMS	
	FIGURE 1.3 CLAIM MAP
	PERRY 1 - 11
MC	2010





- Legend**
- Major Road
  - Primary Forestry Service Road
  - - - Secondary Forestry Service Road
  - Rivers and Streams
  - Lakes
  - - - Fault
  - - - Normal Fault
  - ▲— Thrust Fault
  - \* \* \* Mapped Carbonatite/Syenite Unit
  - Horsethief Creek Group
  - Lardeau Group - Index Formation
  - Selkirk Stocks
  - Monashee Complex: Cover
  - Monashee Complex: Basement
  - Alluvium and Till
  - Granite, alkali feldspar granite intrusive rocks
  - Granodioritic intrusive rocks
  - Perry River Claims

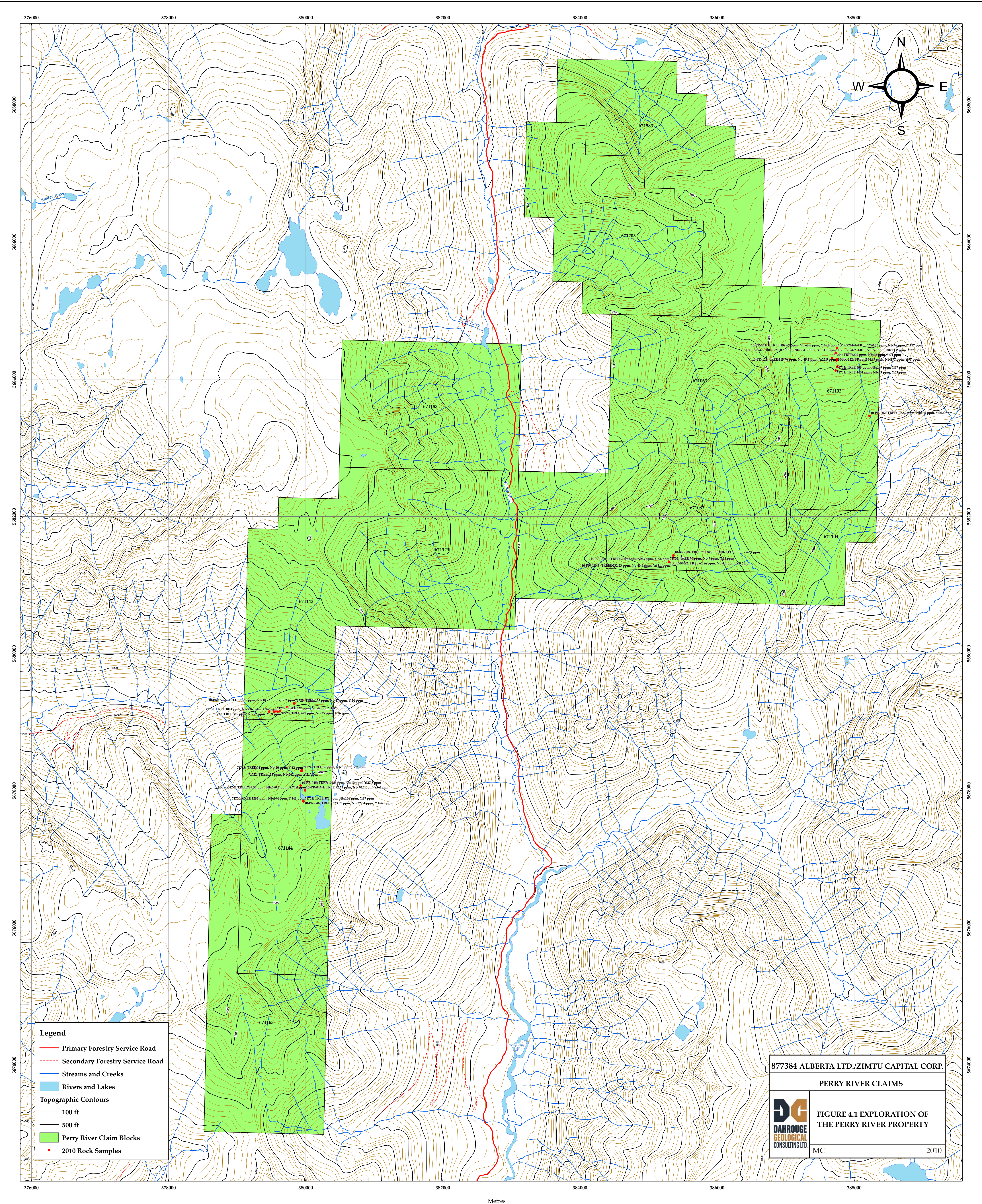
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PERRY RIVER CLAIMS



FIGURE 2.1 REGIONAL GEOLOGY  
OF PERRY RIVER PROPERTY

MC 2010





**Legend**

- Primary Forestry Service Road
- - - Secondary Forestry Service Road
- Streams and Creeks
- Rivers and Lakes
- Topographic Contours**
- 100 ft
- 500 ft
- Perry River Claim Blocks
- 2010 Rock Samples

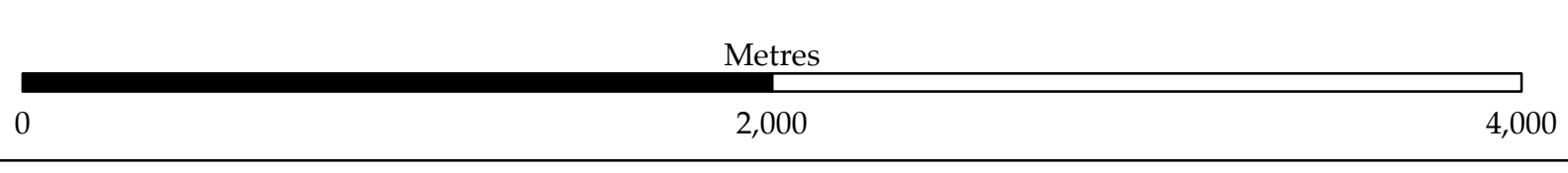
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PERRY RIVER CLAIMS

**DC**  
**DAHROUGE**  
**GEOLOGICAL**  
**CONSULTING LTD.**

**FIGURE 4.1 EXPLORATION OF THE PERRY RIVER PROPERTY**

MC 2010





## APPENDIX 1: ITEMIZED COST STATEMENT FOR THE 2010 EXPLORATION

### a) Personnel

A. Hoffman, Geologist			
12.90	days	Field work and travel Aug 19, 23, 26, 28, 29, 31 and Sept 3.	
<u>12.90</u>	days	@ \$ 450.00	\$ 5,805.00
L. Millong, Geologist			
7.90	days	Field work and travel Aug 19, 23, 26, 28, 29, 31 and Sept 3.	
<u>7.90</u>	days	@ \$ 450.00	\$ 3,555.00
J. Gorham, Geologist			
2.00	days	Report, Supervision	
<u>2.00</u>	days	@ \$ 840.00	\$ 1,680.00
P. Kluczny, Geologist			
0.10	days	Logistical support	
<u>0.10</u>	days	@ \$ 590.00	\$ 59.00
M. Carter, Geologist			
8.40	days	Support, Reporting	
<u>8.40</u>	days	@ \$ 390.00	\$ 3,276.00
W. McGuire			
0.40	days	Draftsman, Support	
<u>0.40</u>	days	@ \$ 575.00	<u>\$ 230.00</u>
			\$ 14,605.00

### FIELD WORK SUMMARY

#### Perry River Claims Prospecting

Claims PERRY 1-11; 5,438.5 ha  
 53 rock samples were collected  
 Prospecting area for outcrop exposure and access  
 Field personnel: A. Hoffman, L. Millong

### b) Food and Accommodation

14 man-days	@ \$ 61.13	accommodations	\$ 855.88
14 man-days	@ \$ 55.00	meals	<u>\$ 770.00</u>
			\$ 1,625.88

### c) Transportation

Vehicles:	Truck Rental	\$ 741.31
	L.R. Helicopters	\$ 4,567.96
	ATV	\$ 414.49
	Fuel	<u>\$ 523.83</u>
		\$ 6,247.59

### f) Analyses

Acme Analytical Laboratories Inc.

53	samples	@ \$ 57.67	Rock samples	<u>\$ 3,056.51</u>
				\$ 3,056.51


### g) Other

Software (ArcGIS, Etc.)	\$ 57.75
Courier and Shipping	\$ 19.72
Disposable Supplies	\$ 27.45
Prints/copies	\$ 6.09

**Total**

\_\_\_\_\_ \$ 111.01  
                      
                     \$ 25,646.00

Edmonton, Alberta  
1/7/2011

  
\_\_\_\_\_  
Andy Hoffman, B.Sc., Geol. I.T.



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**Client:** Dahrouge Geological Consulting

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Submitted By: Andy Hoffman

Receiving Lab: Canada-Vancouver

Received: September 23, 2010

Report Date: October 08, 2010

Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN10004855.1

### CLIENT JOB INFORMATION

Project: Perry River  
Shipment ID:  
P.O. Number: 80012  
Number of Samples: 16

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	16	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4A4B	16	Whole Rock Analysis Majors and Trace Elements	0.2	Completed	VAN

### SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

### 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: Dahrouge Geological Consulting  
18 - 10509 - 81 Ave  
Edmonton AB T6E 1X7  
Canada

CC:



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.

\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Perry River  
Report Date: October 08, 2010

Page: 2 of 2 Part 1

## CERTIFICATE OF ANALYSIS

VAN10004855.1

Method	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
Analyte	Wgt	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	Cr <sub>2</sub> O <sub>3</sub>	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
71701	Rock	1.33	4.00	0.85	2.79	1.51	48.18	0.35	0.52	0.36	1.92	0.18	0.007	38	2	37.2	97.82	1401	1	16.0	0.4
71702	Rock	0.97	37.40	7.13	15.02	9.75	9.95	3.95	2.79	5.81	0.83	0.35	0.050	254	25	5.9	98.93	1212	20	57.1	3.1
71703	Rock	0.96	27.78	3.94	13.05	9.51	21.69	1.21	3.11	3.80	1.64	0.24	0.038	263	39	12.5	98.52	1257	9	57.9	2.4
71704	Rock	0.57	59.57	10.03	2.60	9.43	6.50	5.12	3.99	0.35	0.10	0.09	0.004	<20	6	1.7	99.49	2152	12	4.7	0.1
71705	Rock	1.04	18.22	2.93	1.13	3.43	43.77	0.31	0.86	0.14	0.03	0.02	0.002	<20	3	29.0	99.83	171	<1	2.5	0.2
71720	Rock	0.90	39.24	8.36	15.02	5.98	9.64	4.67	3.00	5.17	0.85	0.43	0.007	85	22	6.7	99.04	753	26	51.0	4.8
71721	Rock	1.28	58.76	17.91	5.56	1.06	0.95	5.07	7.16	0.86	0.13	0.20	<0.002	<20	2	1.4	99.08	2279	11	8.9	2.3
71722	Rock	1.05	59.23	15.64	8.00	0.45	1.22	4.10	9.05	0.46	0.04	0.17	<0.002	<20	2	0.6	98.98	950	2	2.8	1.6
71723	Rock	0.78	64.56	19.00	0.53	0.03	0.52	4.76	9.67	0.04	0.02	0.02	<0.002	<20	<1	0.8	99.94	130	5	0.6	2.1
71724	Rock	0.93	51.84	2.50	11.85	25.87	3.98	0.22	0.53	0.39	0.06	0.15	0.440	737	18	1.6	99.53	68	2	81.2	1.7
71725	Rock	0.97	57.49	15.40	7.77	4.03	6.25	2.75	3.45	1.04	0.20	0.12	0.017	41	22	1.2	99.74	896	2	27.0	1.6
71726	Rock	1.67	45.94	16.91	13.73	6.11	9.03	2.37	2.46	1.28	0.46	0.20	0.008	<20	46	1.1	99.66	881	2	36.1	2.4
71727	Rock	1.12	63.04	15.82	3.97	2.89	2.72	4.27	4.85	0.87	0.16	0.06	0.007	21	11	0.9	99.56	1588	4	11.3	4.2
71728	Rock	1.51	62.55	9.59	2.76	6.95	8.78	2.42	4.54	0.42	0.13	0.08	0.005	<20	6	1.3	99.51	2063	4	5.2	2.4
71729	Rock	1.16	65.49	17.37	1.78	0.36	0.79	5.40	6.80	0.23	0.10	0.19	0.003	<20	7	1.1	99.58	1619	31	3.1	3.0
71730	Rock	1.83	37.68	10.67	14.08	5.60	9.46	4.32	2.97	5.95	1.67	0.37	<0.002	40	19	6.2	98.93	693	16	38.0	11.0



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Project: Perry River  
Report Date: October 08, 2010

Page: 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

VAN10004855.1

Method	Analyte	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.02	0.3	0.05	0.05	0.05	
71701	Rock	5.5	1.1	82.8	14.7	<1	15015	1.3	10.1	53.0	76	<0.5	42.5	63.2	330.4	642.5	70.55	256.7	38.92	10.32	25.49
71702	Rock	18.5	28.9	188.7	64.3	5	3242	5.6	27.5	12.1	369	<0.5	1348	67.3	160.9	300.1	32.90	123.5	22.88	7.06	20.49
71703	Rock	15.5	9.7	82.0	84.3	5	7509	3.6	13.7	5.0	229	<0.5	324.4	78.9	287.7	489.9	52.15	193.4	34.82	9.79	28.65
71704	Rock	14.6	5.6	28.2	30.8	2	552.6	1.0	6.1	2.3	37	<0.5	200.9	24.0	47.4	89.4	9.53	33.5	5.64	1.09	4.49
71705	Rock	4.0	1.1	6.8	17.6	<1	716.4	0.2	3.5	2.0	26	<0.5	42.4	10.5	15.9	28.6	3.44	13.0	2.14	0.41	1.76
71720	Rock	19.4	21.2	194.0	135.7	4	2939	10.7	134.5	5.9	315	1.4	784.1	142.6	294.9	566.7	60.52	224.3	38.68	10.61	31.79
71721	Rock	32.1	43.4	145.8	118.1	3	2338	2.8	76.0	17.2	94	6.6	2141	36.7	101.2	161.0	15.62	56.4	10.48	2.96	7.60
71722	Rock	48.7	92.2	262.3	265.3	6	1242	3.2	12.4	22.3	237	<0.5	5181	21.2	37.0	73.9	6.42	19.2	3.16	0.88	2.50
71723	Rock	30.1	2.3	26.4	282.3	1	475.5	1.1	1.6	2.8	<8	<0.5	102.5	12.4	22.0	31.9	2.85	9.2	1.35	0.22	1.29
71724	Rock	5.9	0.9	8.0	26.5	2	31.7	0.8	0.6	0.4	74	<0.5	31.3	9.3	6.8	14.9	1.87	7.9	1.69	0.28	1.56
71725	Rock	20.4	4.6	16.7	117.7	2	333.6	0.9	6.8	1.3	136	0.8	180.4	24.0	36.0	74.8	8.87	35.5	6.10	1.29	5.06
71726	Rock	22.6	4.2	9.7	90.1	3	430.6	0.5	1.9	0.9	312	<0.5	158.6	34.4	22.4	61.6	8.49	38.2	8.20	1.88	7.29
71727	Rock	20.3	12.2	71.5	121.9	3	831.9	2.3	26.2	7.3	65	1.2	549.6	38.8	89.9	164.1	16.65	57.7	9.51	1.99	7.04
71728	Rock	11.7	6.4	24.8	88.8	1	619.2	0.9	15.6	3.8	47	5.2	246.5	35.8	131.9	181.4	17.26	57.0	8.88	2.08	7.20
71729	Rock	23.8	5.8	48.6	161.3	2	970.0	1.4	50.3	2.9	34	4.2	280.9	57.3	171.3	226.3	18.05	59.3	9.63	2.46	8.84
71730	Rock	31.9	41.1	236.4	150.1	6	3234	13.7	43.6	3.0	274	0.6	1979	93.6	195.6	460.0	57.50	231.8	41.46	11.39	31.85





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Project: Perry River  
Report Date: October 08, 2010

Page: 2 of 2 Part 3

## CERTIFICATE OF ANALYSIS

VAN10004855.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B 2A	Leco 2A	Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	
71701	Rock	3.26	12.71	1.90	4.24	0.50	2.87	0.35	10.65	0.24	0.2	31.3	78.6	22	27.4	7.2	0.6	<0.1	0.6	<0.1	0.6
71702	Rock	3.09	14.32	2.33	5.66	0.67	3.78	0.49	1.05	<0.02	<0.1	65.1	23.3	112	169.2	0.9	0.3	<0.1	0.3	<0.1	<0.5
71703	Rock	3.79	17.26	2.57	6.18	0.72	4.17	0.53	3.12	0.03	<0.1	217.5	36.9	115	204.3	3.1	0.2	<0.1	0.4	0.3	2.7
71704	Rock	0.74	4.18	0.82	2.28	0.34	2.59	0.43	0.14	0.02	50.5	9.4	35.1	4	2.2	<0.5	<0.1	<0.1	0.6	<0.1	<0.5
71705	Rock	0.29	1.57	0.31	0.95	0.14	0.86	0.14	8.09	0.02	0.6	7.6	8.1	2	4.9	6.4	<0.1	0.1	<0.1	<0.1	<0.5
71720	Rock	4.62	22.68	4.35	11.29	1.48	8.89	1.18	1.40	<0.02	0.8	359.2	21.7	121	73.5	1.2	0.1	0.1	<0.1	0.2	2.9
71721	Rock	1.04	5.38	1.09	3.40	0.55	3.96	0.63	0.17	<0.02	1.0	48.4	7.6	96	10.7	<0.5	0.1	0.2	<0.1	<0.1	1.1
71722	Rock	0.50	3.01	0.80	2.80	0.51	4.00	0.72	0.07	<0.02	0.3	1.9	2.8	102	1.3	<0.5	0.2	<0.1	<0.1	<0.1	<0.5
71723	Rock	0.26	1.64	0.40	1.21	0.20	1.35	0.21	0.10	<0.02	0.6	2.6	7.6	7	0.5	<0.5	0.2	<0.1	0.3	<0.1	<0.5
71724	Rock	0.27	1.57	0.30	0.95	0.14	0.99	0.17	0.17	0.15	0.1	38.9	1.3	25	439.6	<0.5	<0.1	<0.1	0.2	<0.1	<0.5
71725	Rock	0.82	4.38	0.86	2.34	0.32	2.20	0.32	<0.02	<0.02	0.3	23.6	4.0	50	27.3	1.2	<0.1	<0.1	<0.1	<0.1	<0.5
71726	Rock	1.16	6.33	1.29	3.48	0.49	3.18	0.49	<0.02	<0.02	0.2	17.2	3.3	62	7.5	1.7	<0.1	<0.1	<0.1	<0.1	<0.5
71727	Rock	1.22	6.51	1.35	3.91	0.64	4.28	0.62	<0.02	0.28	2.7	27.6	8.8	41	20.1	1.6	<0.1	<0.1	0.2	<0.1	<0.5
71728	Rock	1.11	5.85	1.22	3.39	0.47	2.96	0.43	0.19	0.04	3.7	3.1	12.1	18	5.6	0.9	<0.1	<0.1	<0.1	<0.1	<0.5
71729	Rock	1.60	9.48	2.03	5.62	0.83	5.35	0.73	0.05	0.03	11.8	11.3	102.1	61	5.7	1.6	0.5	<0.1	1.1	0.3	<0.5
71730	Rock	4.53	20.49	3.50	8.35	1.03	6.05	0.81	1.47	0.02	0.2	136.0	20.4	119	38.3	3.5	0.1	<0.1	<0.1	0.1	0.6



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**Project:** Perry River**Report Date:** October 08, 2010**Page:** 2 of 2 Part 4

## CERTIFICATE OF ANALYSIS

VAN10004855.1

	Method	1DX	1DX	1DX
	Analyte	Hg	Tl	Se
	Unit	ppm	ppm	ppm
	MDL	0.01	0.1	0.5
71701	Rock	<0.01	<0.1	<0.5
71702	Rock	<0.01	0.3	<0.5
71703	Rock	<0.01	0.2	<0.5
71704	Rock	<0.01	<0.1	<0.5
71705	Rock	<0.01	<0.1	<0.5
71720	Rock	<0.01	0.5	<0.5
71721	Rock	<0.01	0.1	<0.5
71722	Rock	<0.01	<0.1	<0.5
71723	Rock	<0.01	<0.1	<0.5
71724	Rock	<0.01	0.1	<0.5
71725	Rock	<0.01	0.2	<0.5
71726	Rock	<0.01	0.3	<0.5
71727	Rock	<0.01	0.4	<0.5
71728	Rock	<0.01	0.2	<0.5
71729	Rock	<0.01	<0.1	<0.5
71730	Rock	<0.01	0.6	<0.5



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Client: **Dahrouge Geological Consulting**

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Edmonton AB T6E 1X7 Canada

Project: Perry River

Report Date: October 08, 2010

Page: 1 of 1 Part 1

## QUALITY CONTROL REPORT

VAN10004855.1

Method	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
Pulp Duplicates																					
71703	Rock	0.96	27.78	3.94	13.05	9.51	21.69	1.21	3.11	3.80	1.64	0.24	0.038	263	39	12.5	98.52	1257	9	57.9	2.4
REP 71703	QC		27.69	3.98	13.29	9.65	21.48	1.19	3.14	3.69	1.61	0.24	0.039	267	38	12.5	98.52	1294	7	58.2	2.2
71725	Rock	0.97	57.49	15.40	7.77	4.03	6.25	2.75	3.45	1.04	0.20	0.12	0.017	41	22	1.2	99.74	896	2	27.0	1.6
REP 71725	QC																				
Core Reject Duplicates																					
71727	Rock	1.12	63.04	15.82	3.97	2.89	2.72	4.27	4.85	0.87	0.16	0.06	0.007	21	11	0.9	99.56	1588	4	11.3	4.2
DUP 71727	QC		62.72	16.01	3.98	2.93	2.73	4.29	4.88	0.89	0.16	0.06	0.008	21	11	0.9	99.58	1519	4	10.2	3.7
Reference Materials																					
STD CSC	Standard																				
STD DS7	Standard																				
STD OREAS45PA	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		58.30	14.04	7.52	3.33	6.32	3.73	2.16	0.69	0.82	0.40	0.556	45	25	1.9	99.76	489	<1	25.7	6.8
STD SO-18	Standard		58.12	14.02	7.64	3.37	6.30	3.72	2.17	0.70	0.83	0.40	0.565	48	26	1.9	99.76	500	1	26.2	7.0
STD CSC Expected																					
STD OREAS76A Expected																					
STD DS7 Expected																					
STD OREAS45PA Expected																					
STD SO-18 Expected			58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	44	25			514		26.2	7.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1
Prep Wash																					
G1	Prep Blank	<0.01	66.58	15.81	3.31	1.15	3.43	3.49	3.64	0.39	0.18	0.10	0.003	<20	6	1.7	99.77	1037	2	4.0	3.8
G1	Prep Blank	<0.01	66.55	15.73	3.31	1.13	3.63	3.54	3.54	0.38	0.18	0.10	0.004	<20	6	1.7	99.78	974	3	4.3	4.0



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Project: Perry River

Report Date: October 08, 2010

Page: 1 of 1 Part 2

## QUALITY CONTROL REPORT

VAN10004855.1

Method		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
Analyte		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
Pulp Duplicates																					
71703	Rock	15.5	9.7	82.0	84.3	5	7509	3.6	13.7	5.0	229	<0.5	324.4	78.9	287.7	489.9	52.15	193.4	34.82	9.79	28.65
REP 71703	QC	15.7	9.1	83.5	86.7	4	7514	3.6	13.1	4.9	231	<0.5	323.4	76.2	281.1	487.4	51.81	193.2	34.71	9.82	28.20
71725	Rock	20.4	4.6	16.7	117.7	2	333.6	0.9	6.8	1.3	136	0.8	180.4	24.0	36.0	74.8	8.87	35.5	6.10	1.29	5.06
REP 71725	QC																				
Core Reject Duplicates																					
71727	Rock	20.3	12.2	71.5	121.9	3	831.9	2.3	26.2	7.3	65	1.2	549.6	38.8	89.9	164.1	16.65	57.7	9.51	1.99	7.04
DUP 71727	QC	19.5	12.2	68.6	120.7	3	786.2	2.1	24.1	6.8	62	0.7	541.1	38.2	82.7	152.1	16.02	55.1	9.23	1.95	6.94
Reference Materials																					
STD CSC	Standard																				
STD DS7	Standard																				
STD OREAS45PA	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	17.3	8.9	19.6	27.9	14	386.0	6.7	10.5	15.8	194	14.0	274.4	29.7	11.3	25.4	3.16	13.1	2.67	0.80	2.78
STD SO-18	Standard	17.2	9.2	19.8	28.0	15	396.4	6.8	10.6	16.1	199	14.3	281.3	31.0	11.5	26.0	3.22	13.0	2.69	0.82	2.82
STD CSC Expected																					
STD OREAS76A Expected																					
STD DS7 Expected																					
STD OREAS45PA Expected																					
STD SO-18 Expected		17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45	14	3	0.89	2.93
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
Prep Wash																					
G1	Prep Blank	17.6	4.3	21.6	126.1	2	731.2	1.4	8.6	3.5	52	<0.5	141.4	16.2	31.3	59.9	6.56	22.5	3.99	1.02	2.87
G1	Prep Blank	18.6	4.2	22.5	123.6	1	711.7	1.4	8.1	3.3	50	<0.5	155.4	15.4	28.0	55.1	6.03	21.2	3.45	0.94	2.77



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Report Date: October 08, 2010

Page: 1 of 1 Part 3

## QUALITY CONTROL REPORT

VAN10004855.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	2A Leco	2A Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
MDL	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.5
Pulp Duplicates																					
71703	Rock	3.79	17.26	2.57	6.18	0.72	4.17	0.53	3.12	0.03	<0.1	217.5	36.9	115	204.3	3.1	0.2	<0.1	0.4	0.3	2.7
REP 71703	QC	3.77	16.52	2.56	6.04	0.70	4.19	0.50													
71725	Rock	0.82	4.38	0.86	2.34	0.32	2.20	0.32	<0.02	<0.02	0.3	23.6	4.0	50	27.3	1.2	<0.1	<0.1	<0.1	<0.1	<0.5
REP 71725	QC								<0.02	<0.02											
Core Reject Duplicates																					
71727	Rock	1.22	6.51	1.35	3.91	0.64	4.28	0.62	<0.02	0.28	2.7	27.6	8.8	41	20.1	1.6	<0.1	<0.1	0.2	<0.1	<0.5
DUP 71727	QC	1.20	6.64	1.31	4.04	0.61	4.18	0.61	<0.02	0.28	6.3	26.6	9.1	41	19.9	1.7	<0.1	<0.1	0.2	<0.1	<0.5
Reference Materials																					
STD CSC	Standard								3.08	4.21											
STD DS7	Standard										22.2	110.9	73.1	396	59.4	51.2	6.2	3.9	4.6	0.9	59.7
STD OREAS45PA	Standard										0.9	575.2	20.1	110	288.1	4.4	0.1	<0.1	0.2	0.3	49.8
STD OREAS76A	Standard								0.16	17.75											
STD SO-18	Standard	0.47	2.74	0.60	1.72	0.25	1.63	0.26													
STD SO-18	Standard	0.48	2.79	0.58	1.76	0.26	1.68	0.26													
STD CSC Expected									2.94	4.25											
STD OREAS76A Expected									0.16	18											
STD DS7 Expected											20.5	109	70.6	411	56	48.2	6.4	4.6	4.5	0.9	70
STD OREAS45PA Expected											0.9	600	19	119	281	4.2	0.09	0.13	0.18	0.3	43
STD SO-18 Expected		0.53	3	0.62	1.84	0.27	1.79	0.27													
BLK	Blank								<0.02	<0.02											
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01													
Prep Wash																					
G1	Prep Blank	0.47	2.62	0.53	1.65	0.24	1.77	0.28	0.02	<0.02	<0.1	1.8	3.2	48	3.6	2.0	<0.1	<0.1	<0.1	<0.1	<0.5
G1	Prep Blank	0.46	2.27	0.48	1.44	0.23	1.79	0.28	0.05	<0.02	<0.1	1.7	3.0	43	3.7	2.0	<0.1	<0.1	<0.1	<0.1	<0.5



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Project: Perry River

Report Date: October 08, 2010

Page: 1 of 1 Part 4

## QUALITY CONTROL REPORT

VAN10004855.1

Method	1DX	1DX	1DX
Analyte	Hg	Tl	Se
Unit	ppm	ppm	ppm
MDL	0.01	0.1	0.5
Pulp Duplicates			
71703	Rock	<0.01	0.2 <0.5
REP 71703	QC		
71725	Rock	<0.01	0.2 <0.5
REP 71725	QC		
Core Reject Duplicates			
71727	Rock	<0.01	0.4 <0.5
DUP 71727	QC	<0.01	0.4 <0.5
Reference Materials			
STD CSC	Standard		
STD DS7	Standard	0.22	4.0 3.4
STD OREAS45PA	Standard	0.03	<0.1 <0.5
STD OREAS76A	Standard		
STD SO-18	Standard		
STD SO-18	Standard		
STD CSC Expected			
STD OREAS76A Expected			
STD DS7 Expected		0.2	4.2 3.5
STD OREAS45PA Expected		0.03	0.07 0.54
STD SO-18 Expected			
BLK	Blank		
BLK	Blank	<0.01	<0.1 <0.5
BLK	Blank		
Prep Wash			
G1	Prep Blank	<0.01	0.2 <0.5
G1	Prep Blank	<0.01	0.2 <0.5



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Client: **Dept. of Earth & Ocean Sciences (UBC)**

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Submitted By: Leo Millonig

Receiving Lab: Canada-Vancouver

Received: October 07, 2010

Report Date: October 29, 2010

Page: 1 of 5

## CERTIFICATE OF ANALYSIS

VAN10005282.1

### CLIENT JOB INFORMATION

Project: ZIMTU 2010  
Shipment ID:  
P.O. Number  
Number of Samples: 114

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	114	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4A4B	114	Whole Rock Analysis Majors and Trace Elements	0.2	Completed	VAN

### SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

### 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: Zimtu Capital Corp.  
1450 - 789 West Pender St.  
Vancouver BC V6C 1H2  
Canada

CC: Ryan Fletcher



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.

\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ZIMTU 2010
Report Date: October 29, 2010

Page: 4 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN10005282.1

Table with columns: Method, Analyte, Unit, MDL, WGHT, 4A-4B (SiO2, Al2O3, Fe2O3, MgO, CaO, Na2O, K2O, TiO2, P2O5, MnO, Cr2O3), Ni, Sc, LOI, Sum, Ba, Be, Co, Cs. Rows include 10-PR-002, 10-PR-004-1, 10-PR-004-2, 10-PR-008, 10-PR-011, 10-PR-012, 10-PR-013, 10-PR-014, 10-PR-018, 10-PR-019-1, 10-PR-019-2, 10-PR-020-1, 10-PR-020-2, 10-PR-020-3, 10-PR-ATV-01, 10-PR-045.

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APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

Client: **Dept. of Earth & Ocean Sciences (UBC)**  
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Project: ZIMTU 2010  
Report Date: October 29, 2010

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CERTIFICATE OF ANALYSIS

VAN10005282.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B 2A	Leco 2A	Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-002	Rock	0.74	4.10	0.75	2.03	0.27	1.69	0.25	0.04	<0.02	0.2	18.8	1.5	62	346.8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-004-1	Rock	4.10	18.94	2.91	7.06	0.91	5.38	0.67	2.23	0.03	0.8	65.7	49.5	112	121.7	1.3	0.4	<0.1	<0.1	<0.1	<0.5
10-PR-004-2	Rock	8.32	34.55	4.54	10.00	1.25	7.12	0.85	7.17	0.33	0.3	36.0	125.5	67	102.2	5.4	0.9	<0.1	0.1	0.2	<0.5
10-PR-008	Rock	2.96	12.68	1.75	3.32	0.34	1.70	0.17	0.87	<0.02	0.2	158.3	12.1	55	45.9	11.6	<0.1	<0.1	0.2	0.2	3.0
10-PR-011	Rock	2.70	12.67	2.08	5.00	0.68	4.15	0.55	1.89	<0.02	0.3	41.2	12.3	70	66.2	1.5	0.2	<0.1	0.2	0.2	1.4
10-PR-012	Rock	3.16	16.36	2.76	6.96	0.94	5.70	0.75	0.36	<0.02	0.3	47.9	4.6	208	130.3	1.0	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-013	Rock	0.81	4.04	0.69	1.76	0.24	1.54	0.24	0.24	<0.02	0.1	22.0	6.2	67	34.1	<0.5	<0.1	<0.1	<0.1	<0.1	0.5
10-PR-014	Rock	1.19	5.53	0.86	2.18	0.28	1.71	0.23	0.03	0.02	0.4	20.5	8.0	21	3.8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-018	Rock	2.07	9.85	1.53	3.82	0.49	2.92	0.38	0.03	<0.02	0.3	2.7	3.5	9	1.3	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-019-1	Rock	1.03	5.26	0.86	2.29	0.34	2.07	0.28	<0.02	<0.02	<0.1	1.1	2.2	57	0.6	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-019-2	Rock	2.23	10.39	1.60	3.72	0.43	2.33	0.28	0.03	<0.02	0.2	19.2	1.2	12	0.6	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-020-1	Rock	0.16	0.99	0.19	0.52	0.08	0.52	0.07	8.93	<0.02	0.1	2.0	6.2	2	1.3	3.4	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-020-2	Rock	0.26	1.52	0.30	0.89	0.12	0.78	0.11	7.55	0.02	0.4	4.4	7.3	<1	5.4	3.9	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-020-3	Rock	2.07	11.21	2.16	6.42	1.01	7.04	1.19	0.14	<0.02	2.0	1.2	12.9	23	4.6	1.0	<0.1	<0.1	<0.1	<0.1	<0.5
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-ATV-01	Rock	1.86	11.19	2.37	7.46	1.19	7.65	1.08	2.61	0.02	543.7	1.0	37.3	70	11.1	1.0	0.2	<0.1	0.6	0.1	<0.5
10-PR-045	Rock	0.93	5.42	1.08	3.03	0.44	2.75	0.39	0.02	<0.02	0.5	2.7	4.1	22	6.0	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5

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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**Project:** ZIMTU 2010  
**Report Date:** October 29, 2010

**Page:** 4 of 5 **Part:** 4

**CERTIFICATE OF ANALYSIS****VAN10005282.1**

Method Analyte Unit MDL	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5	
10-PR-002	Rock	<0.01	0.8	<0.5
10-PR-004-1	Rock	<0.01	0.3	<0.5
10-PR-004-2	Rock	<0.01	0.3	<0.5
10-PR-008	Rock	<0.01	<0.1	<0.5
10-PR-011	Rock	<0.01	<0.1	<0.5
10-PR-012	Rock	<0.01	0.3	<0.5
10-PR-013	Rock	<0.01	<0.1	<0.5
10-PR-014	Rock	<0.01	<0.1	<0.5
10-PR-018	Rock	<0.01	<0.1	<0.5
10-PR-019-1	Rock	<0.01	<0.1	<0.5
10-PR-019-2	Rock	<0.01	<0.1	<0.5
10-PR-020-1	Rock	<0.01	<0.1	0.7
10-PR-020-2	Rock	<0.01	<0.1	<0.5
10-PR-020-3	Rock	<0.01	<0.1	<0.5
10-PR-ATV-01	Rock	<0.01	0.4	0.5
10-PR-045	Rock	<0.01	<0.1	<0.5



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CERTIFICATE OF ANALYSIS

VAN10005282.1

Method	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
10-PR-046	Rock	0.51	38.46	7.17	14.63	6.28	11.22	4.66	3.06	4.71	0.64	0.39	0.039	173	23	7.7	98.93	742	25	50.7	5.0
10-PR-047-1	Rock	0.44	50.84	24.40	3.31	1.17	1.38	8.57	6.94	0.35	0.14	0.14	<0.002	<20	<1	2.1	99.30	482	1	2.7	5.2
10-PR-047-2	Rock	0.72	42.22	6.92	15.49	11.64	7.87	3.09	4.86	5.19	0.71	0.47	0.106	505	32	0.7	99.33	274	19	67.4	15.1
10-PR-048-1	Rock	0.92	54.60	20.43	6.09	0.66	1.47	7.30	7.07	0.56	0.03	0.15	<0.002	<20	<1	1.0	99.37	534	2	2.6	3.4
10-PR-048-2	Rock	1.59	51.24	24.77	3.50	1.18	1.92	8.61	6.26	0.32	0.29	0.14	0.003	<20	<1	1.1	99.37	385	2	3.5	4.6
10-PR-049-1	Rock	0.32	51.57	2.90	11.85	25.33	4.30	0.26	0.72	0.46	0.06	0.14	0.471	704	18	1.4	99.52	82	<1	78.4	2.3
10-PR-049-2	Rock	0.44	51.74	24.28	2.37	0.46	3.83	9.70	3.86	0.26	0.07	0.13	<0.002	<20	<1	2.5	99.15	227	4	1.4	2.9
10-PR-122	Rock	2.86	30.71	4.32	16.55	9.13	18.35	1.22	2.80	7.65	2.41	0.22	0.008	126	65	5.4	98.81	2260	5	49.5	1.8
10-PR-123	Rock	2.42	31.68	1.30	19.32	17.21	12.21	2.63	1.27	3.65	0.52	0.33	0.146	612	38	8.8	99.13	742	9	90.0	0.6
10-PR-124-1	Rock	2.03	35.39	6.09	10.53	10.42	15.08	1.36	4.29	10.63	3.37	0.25	0.012	155	21	1.4	98.81	1700	4	45.6	3.1
10-PR-124-2	Rock	1.11	32.28	1.80	20.89	12.07	15.26	2.47	0.41	7.75	1.46	0.32	0.022	267	49	4.3	99.10	210	9	79.4	<0.1
10-PR-124-3	Rock	0.46	35.76	1.34	21.39	13.12	17.97	0.51	0.97	5.27	0.52	0.19	0.047	270	85	2.2	99.37	512	4	78.8	0.6
10-PR-124-4	Rock	0.64	16.95	3.35	7.97	6.55	30.66	0.85	2.47	2.34	1.62	0.23	0.024	128	11	23.4	96.39	2042	3	35.9	2.0
10-PR-051	Rock	0.52	67.31	15.73	3.75	1.52	2.87	3.72	2.97	0.55	0.28	0.04	0.005	<20	5	0.9	99.68	1383	3	6.7	2.9
10-PR-053-1	Rock	1.00	59.40	15.09	8.05	3.73	6.04	2.52	2.88	0.76	0.25	0.22	0.006	<20	20	0.7	99.63	1792	4	18.3	0.8
10-PR-053-2	Rock	0.52	57.29	16.33	7.34	3.61	6.41	2.95	3.26	1.17	0.20	0.12	0.009	33	18	1.0	99.73	793	2	22.5	1.1
10-PR-061	Rock	2.04	46.72	11.71	4.44	4.43	16.74	3.07	3.78	0.84	0.20	0.13	0.003	<20	5	7.5	99.57	1232	3	7.2	1.8
10-PR-062-1	Rock	1.61	62.68	11.64	4.35	4.40	8.81	1.83	3.82	0.53	0.12	0.11	0.008	25	10	1.4	99.67	1621	3	10.3	6.5
10-PR-062-2	Rock	0.63	57.07	16.19	6.12	1.76	2.44	3.94	7.89	1.37	0.27	0.22	0.010	23	11	1.7	98.97	1793	21	10.5	12.2
10-PR-063	Rock	2.31	38.23	10.32	13.90	5.61	10.01	4.61	2.53	5.66	1.55	0.37	0.002	44	25	6.1	98.92	605	20	35.5	9.2
10-PR-064-1	Rock	0.52	61.93	21.72	1.49	0.44	1.55	8.41	2.56	0.19	0.19	0.09	<0.002	<20	3	1.2	99.75	248	26	3.9	2.9
10-PR-064-2	Rock	1.49	60.56	13.39	4.22	4.26	7.97	2.96	3.99	0.46	0.07	0.12	0.005	<20	10	1.6	99.62	1750	3	9.7	4.1
██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████
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APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

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CERTIFICATE OF ANALYSIS

VAN10005282.1

Method	Analyte	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	
10-PR-046	Rock	18.3	17.3	227.4	136.4	5	3635	11.3	120.1	5.3	332	2.2	722.9	154.6	352.0	727.6	77.18	296.6	50.33	14.69	40.38
10-PR-047-1	Rock	37.2	31.5	70.2	264.6	2	3059	0.6	1.5	2.9	39	1.1	1513	6.4	27.4	43.4	3.78	12.3	1.29	0.38	0.85
10-PR-047-2	Rock	39.0	19.1	290.1	264.4	6	672.7	5.5	14.6	2.5	292	<0.5	752.8	74.4	150.1	369.0	41.17	147.5	24.44	6.95	17.82
10-PR-048-1	Rock	40.6	35.7	197.8	255.2	5	1862	2.0	9.9	7.9	165	0.8	1825	15.2	51.2	88.2	8.32	26.6	3.38	1.01	2.48
10-PR-048-2	Rock	37.9	47.0	162.6	276.7	2	1440	1.5	5.4	10.7	49	2.5	2364	11.0	47.1	75.1	6.30	20.0	2.05	0.58	1.34
10-PR-049-1	Rock	5.2	1.0	9.3	34.5	2	33.6	0.8	0.6	0.3	72	<0.5	33.7	9.9	6.4	15.4	1.89	8.1	1.75	0.30	1.54
10-PR-049-2	Rock	31.1	45.4	237.1	151.7	1	3225	2.2	24.4	14.9	44	2.4	2242	37.8	168.2	280.3	23.59	65.9	7.14	1.74	4.20
10-PR-122	Rock	11.6	7.6	177.0	71.4	2	3764	8.4	33.3	11.9	311	<0.5	244.5	97.0	319.9	688.4	78.22	312.5	56.86	17.14	44.07
10-PR-123	Rock	12.2	4.0	45.3	24.8	<1	2556	1.8	9.3	15.2	229	<0.5	131.7	22.5	85.1	135.1	13.57	52.0	9.26	2.87	7.83
10-PR-124-1	Rock	15.6	9.1	594.5	145.4	5	3012	25.7	15.8	6.4	201	<0.5	258.9	131.1	393.2	980.5	120.3	471.6	78.99	23.49	57.82
10-PR-124-2	Rock	9.7	7.7	71.2	2.2	3	3445	3.5	2.7	0.5	455	<0.5	232.7	37.6	133.2	251.9	29.29	121.9	21.12	5.99	15.65
10-PR-124-3	Rock	9.8	7.7	68.6	22.4	3	1059	4.4	12.9	3.0	301	<0.5	170.2	26.8	112.0	259.5	32.40	132.0	24.89	7.09	16.94
10-PR-124-4	Rock	10.1	7.6	76.0	60.3	2	24770	2.0	12.6	3.2	220	<0.5	315.8	117.0	541.5	773.2	72.75	268.1	42.62	12.50	32.25
10-PR-051	Rock	19.2	3.8	43.0	99.3	3	787.6	1.3	18.2	1.3	55	<0.5	162.9	13.4	78.1	142.8	13.86	44.4	6.54	1.29	4.12
10-PR-053-1	Rock	28.7	4.4	69.1	71.6	5	312.0	3.4	10.7	3.0	124	0.9	134.7	96.7	28.8	66.4	8.06	33.8	7.63	1.58	8.02
10-PR-053-2	Rock	20.6	6.8	18.3	101.6	2	403.5	0.6	15.2	1.0	135	0.9	247.5	17.2	78.6	159.1	16.04	55.2	7.89	1.34	4.99
10-PR-061	Rock	17.9	11.9	97.6	100.2	2	633.8	3.4	22.1	7.1	56	0.5	545.1	40.0	109.8	213.9	21.42	77.7	12.08	2.93	8.68
10-PR-062-1	Rock	14.9	4.8	12.0	134.6	3	303.7	0.6	12.1	3.9	50	2.1	164.0	36.5	43.6	98.2	10.38	40.5	7.75	1.45	6.59
10-PR-062-2	Rock	28.2	47.6	313.0	282.3	7	1391	7.4	191.9	9.1	120	2.3	2067	228.1	643.0	885.9	72.62	227.4	35.80	8.65	30.70
10-PR-063	Rock	29.8	37.1	259.2	125.2	8	3461	13.7	33.9	6.7	261	1.1	1801	102.5	190.3	473.2	59.69	256.5	44.96	12.60	33.14
10-PR-064-1	Rock	54.0	2.3	191.4	87.3	2	1061	3.4	14.4	17.5	35	4.0	65.8	15.0	54.0	93.0	8.64	25.8	4.16	1.31	2.85
10-PR-064-2	Rock	15.8	5.1	12.9	149.3	4	374.7	0.9	13.8	2.9	49	<0.5	159.8	34.1	35.7	77.7	8.56	32.1	6.41	1.05	5.71
██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████
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CERTIFICATE OF ANALYSIS

VAN10005282.1

Method	Analyte	Unit	MDL	4A-4B Tb	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B Lu	4A-4B 2A TOT/C	Leco 2A TOT/S	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
				0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5
10-PR-046	Rock			5.72	29.75	5.06	12.69	1.65	8.93	1.09	1.72	<0.02	0.9	242.9	25.1	119	166.1	1.6	<0.1	<0.1	<0.1	0.1	<0.5
10-PR-047-1	Rock			0.16	0.97	0.22	0.77	0.13	0.92	0.16	0.16	0.36	57.4	13.1	1.9	206	3.9	0.5	1.6	<0.1	<0.1	<0.1	<0.5
10-PR-047-2	Rock			2.78	14.03	2.41	6.25	0.86	5.30	0.73	0.04	<0.02	0.1	70.0	2.8	317	481.4	1.8	<0.1	<0.1	<0.1	0.3	1.2
10-PR-048-1	Rock			0.44	2.36	0.57	1.62	0.27	1.86	0.33	0.04	0.04	2.9	5.5	2.5	138	1.9	0.9	0.2	<0.1	<0.1	<0.1	<0.5
10-PR-048-2	Rock			0.25	1.50	0.33	1.21	0.21	1.50	0.25	0.11	0.09	32.1	11.2	2.5	141	2.9	1.4	0.4	<0.1	<0.1	<0.1	<0.5
10-PR-049-1	Rock			0.27	1.45	0.31	0.97	0.15	1.08	0.16	0.09	0.13	0.1	40.2	1.4	27	469.9	0.8	<0.1	<0.1	0.2	<0.1	<0.5
10-PR-049-2	Rock			0.87	5.06	1.18	4.11	0.65	4.52	0.69	0.47	0.03	5.4	2.0	3.9	102	2.1	1.6	0.4	<0.1	<0.1	<0.1	<0.5
10-PR-122	Rock			5.89	24.86	3.60	7.48	0.83	4.61	0.51	1.24	<0.02	0.2	45.8	16.1	79	112.6	4.0	0.1	<0.1	<0.1	<0.1	<0.5
10-PR-123	Rock			1.11	4.74	0.76	1.72	0.23	1.29	0.18	1.79	0.05	0.1	547.3	19.3	117	521.3	1.5	0.3	<0.1	0.6	0.8	9.1
10-PR-124-1	Rock			7.89	34.38	4.90	10.06	1.17	5.99	0.63	0.11	0.03	0.3	123.1	5.2	204	148.2	2.3	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-124-2	Rock			2.04	8.55	1.38	2.96	0.35	1.95	0.27	1.04	0.11	0.2	384.3	17.3	66	179.7	2.3	0.2	<0.1	0.2	0.3	0.9
10-PR-124-3	Rock			2.18	8.12	1.05	2.01	0.21	1.09	0.14	0.46	0.03	0.5	487.9	11.0	51	203.4	1.4	0.1	<0.1	0.4	0.3	0.6
10-PR-124-4	Rock			4.63	21.55	3.65	9.38	1.16	6.36	0.81	6.12	<0.02	0.1	35.7	103.1	69	116.2	3.9	0.4	<0.1	<0.1	<0.1	<0.5
10-PR-051	Rock			0.61	2.71	0.44	1.14	0.16	0.89	0.13	0.02	<0.02	<0.1	3.4	2.6	62	11.4	<0.5	<0.1	<0.1	<0.1	<0.1	0.6
10-PR-053-1	Rock			1.61	11.28	3.00	11.45	2.15	15.80	2.39	<0.02	0.03	0.3	31.0	2.9	35	6.1	<0.5	<0.1	<0.1	<0.1	<0.1	0.6
10-PR-053-2	Rock			0.71	3.39	0.62	1.74	0.24	1.60	0.21	<0.02	<0.02	0.3	7.9	3.2	47	21.5	<0.5	<0.1	<0.1	<0.1	<0.1	0.7
10-PR-061	Rock			1.35	7.12	1.30	3.74	0.55	3.58	0.48	2.12	0.78	4.2	51.2	16.5	35	8.0	1.6	<0.1	<0.1	0.6	0.1	0.6
10-PR-062-1	Rock			1.09	6.09	1.19	3.53	0.55	3.56	0.55	0.24	0.30	0.2	47.5	11.7	36	17.1	<0.5	<0.1	<0.1	0.4	0.2	0.8
10-PR-062-2	Rock			5.67	34.66	7.18	21.51	3.44	22.75	2.92	0.25	0.39	5.3	23.8	13.7	169	24.3	1.4	0.5	<0.1	0.4	<0.1	0.7
10-PR-063	Rock			4.67	22.55	3.65	8.88	1.16	6.46	0.80	1.63	<0.02	0.2	186.0	18.5	100	34.8	4.3	0.1	<0.1	0.1	0.2	1.9
10-PR-064-1	Rock			0.49	2.48	0.46	1.34	0.19	1.11	0.16	0.03	<0.02	0.8	72.9	30.9	78	5.2	<0.5	0.1	<0.1	0.8	0.3	2.4
10-PR-064-2	Rock			1.02	5.98	1.20	3.59	0.56	3.40	0.52	0.03	<0.02	0.4	22.7	7.8	39	7.9	<0.5	<0.1	<0.1	0.3	0.1	<0.5
██████	██████			██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████	██████
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Client: **Dept. of Earth & Ocean Sciences (UBC)**  
6339 Stores Road  
Vancouver BC V6T 1Z4 Canada

Project: ZIMTU 2010  
Report Date: October 29, 2010

Page: 5 of 5 Part 4

## CERTIFICATE OF ANALYSIS

VAN10005282.1

Method	1DX	1DX	1DX
Analyte	Hg	Tl	Se
Unit	ppm	ppm	ppm
MDL	0.01	0.1	0.5
10-PR-046	Rock	<0.01	0.6 <0.5
10-PR-047-1	Rock	<0.01	0.4 <0.5
10-PR-047-2	Rock	<0.01	0.7 <0.5
10-PR-048-1	Rock	<0.01	0.3 <0.5
10-PR-048-2	Rock	<0.01	0.4 <0.5
10-PR-049-1	Rock	<0.01	0.2 <0.5
10-PR-049-2	Rock	<0.01	0.4 <0.5
10-PR-122	Rock	<0.01	0.3 <0.5
10-PR-123	Rock	<0.01	<0.1 <0.5
10-PR-124-1	Rock	<0.01	0.4 <0.5
10-PR-124-2	Rock	<0.01	<0.1 <0.5
10-PR-124-3	Rock	<0.01	<0.1 <0.5
10-PR-124-4	Rock	<0.01	0.2 0.6
10-PR-051	Rock	<0.01	0.3 <0.5
10-PR-053-1	Rock	<0.01	0.1 <0.5
10-PR-053-2	Rock	<0.01	0.2 <0.5
10-PR-061	Rock	<0.01	0.2 0.5
10-PR-062-1	Rock	<0.01	0.3 0.6
10-PR-062-2	Rock	<0.01	0.5 <0.5
10-PR-063	Rock	<0.01	0.5 <0.5
10-PR-064-1	Rock	<0.01	0.2 <0.5
10-PR-064-2	Rock	<0.01	0.1 <0.5
██████	██	██████████	
██████	██	██████████	



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 6339 Stores Road  
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Project: ZIMTU 2010  
 Report Date: October 29, 2010

Page: 1 of 4 Part 1

QUALITY CONTROL REPORT

VAN10005282.1

Method	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-019-2	Rock	2.64	62.94	16.45	4.08	0.61	2.36	7.63	3.83	1.14	0.09	0.10	<0.002	<20	2	0.3	99.54	927	6	1.5	0.2
10-PR-047-2	Rock	0.72	42.22	6.92	15.49	11.64	7.87	3.09	4.86	5.19	0.71	0.47	0.106	505	32	0.7	99.33	274	19	67.4	15.1
Pulp Duplicates																					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-004-2	Rock	1.76	14.14	2.52	8.51	5.44	32.78	1.20	1.90	1.84	1.05	0.36	0.031	132	12	26.3	96.11	1665	6	30.4	1.5
REP 10-PR-004-2	QC		14.18	2.54	8.34	5.50	32.86	1.19	1.89	1.84	1.03	0.36	0.030	121	12	26.3	96.10	1637	6	31.1	1.6
10-PR-012	Rock	1.61	43.15	11.06	13.63	6.32	8.31	4.34	3.64	4.51	1.11	0.27	0.021	127	14	2.3	98.65	2865	8	41.2	2.7
REP 10-PR-012	QC		42.90	11.08	13.73	6.40	8.32	4.30	3.69	4.51	1.14	0.27	0.021	128	13	2.3	98.66	2838	9	40.6	2.7
10-PR-046	Rock	0.51	38.46	7.17	14.63	6.28	11.22	4.66	3.06	4.71	0.64	0.39	0.039	173	23	7.7	98.93	742	25	50.7	5.0
REP 10-PR-046	QC																				
10-PR-048-2	Rock	1.59	51.24	24.77	3.50	1.18	1.92	8.61	6.26	0.32	0.29	0.14	0.003	<20	<1	1.1	99.37	385	2	3.5	4.6
REP 10-PR-048-2	QC		51.37	24.52	3.50	1.17	1.94	8.65	6.31	0.33	0.31	0.14	<0.002	<20	<1	1.1	99.37	401	1	3.5	4.6
Core Reject Duplicates																					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

Client: **Dept. of Earth & Ocean Sciences (UBC)**  
 6339 Stores Road  
 Vancouver BC V6T 1Z4 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

Project: ZIMTU 2010  
 Report Date: October 29, 2010

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Page: 1 of 4 Part 2

QUALITY CONTROL REPORT

VAN10005282.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
Analyte	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
10-PR-019-2	Rock	26.2	6.7	155.6	35.8	3	1963	12.5	2.6	1.1	59	<0.5	217.9	40.4	85.4	265.9	36.84	151.5	23.37	6.72	16.43
10-PR-047-2	Rock	39.0	19.1	290.1	264.4	6	672.7	5.5	14.6	2.5	292	<0.5	752.8	74.4	150.1	369.0	41.17	147.5	24.44	6.95	17.82
Pulp Duplicates																					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
10-PR-004-2	Rock	14.9	6.1	97.6	59.9	2	22140	2.6	5.1	6.8	193	<0.5	297.1	141.8	1561	3517	380.2	1486	164.3	38.05	86.30
REP 10-PR-004-2	QC	14.5	7.7	101.6	60.5	2	22161	3.0	5.8	10.5	190	<0.5	335.5	144.6	1571	3570	380.6	1501	162.6	37.92	87.27
10-PR-012	Rock	31.7	46.2	262.2	108.5	6	3284	6.6	13.2	7.2	393	<0.5	2499	77.3	114.9	278.5	34.25	143.0	25.98	7.85	21.90
REP 10-PR-012	QC	31.9	47.2	257.9	109.0	6	3247	6.7	13.2	7.1	388	<0.5	2476	76.8	113.7	272.4	33.98	140.2	25.65	7.72	21.73
10-PR-046	Rock	18.3	17.3	227.4	136.4	5	3635	11.3	120.1	5.3	332	2.2	722.9	154.6	352.0	727.6	77.18	296.6	50.33	14.69	40.38
REP 10-PR-046	QC	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-048-2	Rock	37.9	47.0	162.6	276.7	2	1440	1.5	5.4	10.7	49	2.5	2364	11.0	47.1	75.1	6.30	20.0	2.05	0.58	1.34
REP 10-PR-048-2	QC	39.6	47.6	159.9	271.9	2	1435	1.4	4.9	10.2	47	0.6	2333	10.8	47.3	73.1	6.13	17.6	2.05	0.54	1.33
Core Reject Duplicates																					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	

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APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

Client: **Dept. of Earth & Ocean Sciences (UBC)**  
 6339 Stores Road  
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Page: 1 of 4 Part 3

QUALITY CONTROL REPORT

VAN10005282.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	2A Leco	2A Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
10-PR-019-2	Rock	2.23	10.39	1.60	3.72	0.43	2.33	0.28	0.03	<0.02	0.2	19.2	1.2	12	0.6	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
10-PR-047-2	Rock	2.78	14.03	2.41	6.25	0.86	5.30	0.73	0.04	<0.02	0.1	70.0	2.8	317	481.4	1.8	<0.1	<0.1	<0.1	0.3	1.2
Pulp Duplicates																					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
10-PR-004-2	Rock	8.32	34.55	4.54	10.00	1.25	7.12	0.85	7.17	0.33	0.3	36.0	125.5	67	102.2	5.4	0.9	<0.1	0.1	0.2	<0.5
REP 10-PR-004-2	QC	8.49	34.74	4.64	10.10	1.24	7.36	0.83													
10-PR-012	Rock	3.16	16.36	2.76	6.96	0.94	5.70	0.75	0.36	<0.02	0.3	47.9	4.6	208	130.3	1.0	<0.1	<0.1	<0.1	<0.1	<0.5
REP 10-PR-012	QC	3.09	15.62	2.69	6.95	0.95	5.56	0.75	0.32	<0.02											
10-PR-046	Rock	5.72	29.75	5.06	12.69	1.65	8.93	1.09	1.72	<0.02	0.9	242.9	25.1	119	166.1	1.6	<0.1	<0.1	<0.1	0.1	<0.5
REP 10-PR-046	QC										0.9	249.9	24.9	118	166.7	1.7	0.1	<0.1	<0.1	0.1	1.4
10-PR-048-2	Rock	0.25	1.50	0.33	1.21	0.21	1.50	0.25	0.11	0.09	32.1	11.2	2.5	141	2.9	1.4	0.4	<0.1	<0.1	<0.1	<0.5
REP 10-PR-048-2	QC	0.27	1.36	0.30	1.16	0.20	1.52	0.24													
Core Reject Duplicates																					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	

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Client: **Dept. of Earth & Ocean Sciences (UBC)**  
 6339 Stores Road  
 Vancouver BC V6T 1Z4 Canada

Project: ZIMTU 2010  
 Report Date: October 29, 2010

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QUALITY CONTROL REPORT

VAN10005282.1

Method	1DX	1DX	1DX
Analyte	Hg	Tl	Se
Unit	ppm	ppm	ppm
MDL	0.01	0.1	0.5
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-019-2	Rock	<0.01	<0.1 <0.5
10-PR-047-2	Rock	<0.01	0.7 <0.5
Pulp Duplicates			
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10-PR-004-2	Rock	<0.01	0.3 <0.5
REP 10-PR-004-2	QC		
10-PR-012	Rock	<0.01	0.3 <0.5
REP 10-PR-012	QC		
10-PR-046	Rock	<0.01	0.6 <0.5
REP 10-PR-046	QC	<0.01	0.6 <0.5
10-PR-048-2	Rock	<0.01	0.4 <0.5
REP 10-PR-048-2	QC		
Core Reject Duplicates			
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



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QUALITY CONTROL REPORT

VAN10005282.1

		WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1
10-PR-124-2	Rock	1.11	32.28	1.80	20.89	12.07	15.26	2.47	0.41	7.75	1.46	0.32	0.022	267	49	4.3	99.10	210	9	79.4	<0.1
DUP 10-PR-124-2	QC		32.23	1.80	20.78	12.00	15.36	2.45	0.41	7.82	1.53	0.32	0.021	268	49	4.3	99.09	217	9	80.6	<0.1
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS45PA	Standard																				
STD OREAS45PA	Standard																				
STD OREAS45PA	Standard																				
STD OREAS45PA	Standard																				
STD OREAS45PA	Standard																				
STD OREAS45PA	Standard																				
STD OREAS45PA	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		58.25	13.99	7.59	3.35	6.34	3.71	2.15	0.70	0.83	0.40	0.554	49	25	1.9	99.76	506	<1	25.2	6.7
STD SO-18	Standard		58.34	14.00	7.55	3.34	6.33	3.69	2.13	0.69	0.83	0.40	0.552	46	25	1.9	99.76	495	1	25.2	6.6

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APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

Client: **Dept. of Earth & Ocean Sciences (UBC)**  
 6339 Stores Road  
 Vancouver BC V6T 1Z4 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

Project: ZIMTU 2010  
 Report Date: October 29, 2010

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QUALITY CONTROL REPORT

VAN10005282.1

		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B		
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	
10-PR-124-2	Rock	9.7	7.7	71.2	2.2	3	3445	3.5	2.7	0.5	455	<0.5	232.7	37.6	133.2	251.9	29.29	121.9	21.12	5.99	15.65	
DUP 10-PR-124-2	QC	10.8	8.0	71.1	2.2	4	3557	3.6	3.1	0.5	457	<0.5	234.4	38.9	137.3	261.3	29.87	122.9	21.60	6.11	16.25	
Reference Materials																						
STD CSC	Standard																					
STD CSC	Standard																					
STD CSC	Standard																					
STD CSC	Standard																					
STD CSC	Standard																					
STD DS7	Standard																					
STD DS7	Standard																					
STD DS7	Standard																					
STD DS7	Standard																					
STD DS7	Standard																					
STD OREAS45PA	Standard																					
STD OREAS45PA	Standard																					
STD OREAS45PA	Standard																					
STD OREAS45PA	Standard																					
STD OREAS45PA	Standard																					
STD OREAS45PA	Standard																					
STD OREAS76A	Standard																					
STD OREAS76A	Standard																					
STD OREAS76A	Standard																					
STD OREAS76A	Standard																					
STD OREAS76A	Standard																					
STD SO-18	Standard	16.7	9.5	21.9	26.6	14	383.2	7.0	9.6	15.2	196	14.1	280.8	30.6	11.7	25.8	3.21	13.1	2.76	0.83	2.79	
STD SO-18	Standard	16.7	9.4	21.6	26.8	14	387.1	7.0	9.6	15.3	195	14.2	280.4	30.4	11.6	25.9	3.23	13.1	2.74	0.83	2.79	

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Client: **Dept. of Earth & Ocean Sciences (UBC)**  
 6339 Stores Road  
 Vancouver BC V6T 1Z4 Canada

Acme Analytical Laboratories (Vancouver) Ltd.  
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Project: ZIMTU 2010  
 Report Date: October 29, 2010

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**QUALITY CONTROL REPORT** VAN10005282.1

		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	2A Leco	2A Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	
10-PR-124-2	Rock	2.04	8.55	1.38	2.96	0.35	1.95	0.27	1.04	0.11	0.2	384.3	17.3	66	179.7	2.3	0.2	<0.1	0.2	0.3	0.9	
DUP 10-PR-124-2	QC	2.10	9.01	1.33	2.94	0.36	1.90	0.28	1.12	0.11	0.2	375.5	17.4	67	174.1	2.4	0.2	<0.1	0.2	0.3	0.7	
Reference Materials																						
STD CSC	Standard																					
											2.90	4.24										
STD CSC	Standard																					
											3.04	4.23										
STD CSC	Standard																					
											3.05	4.25										
STD CSC	Standard																					
											2.88	4.19										
STD CSC	Standard																					
											2.85	4.29										
STD DS7	Standard											22.2	112.4	67.2	408	58.4	52.3	6.6	4.6	4.8	0.9	60.6
STD DS7	Standard											22.0	118.0	71.7	419	58.6	54.7	7.0	4.8	5.0	1.1	54.5
STD DS7	Standard											21.8	120.2	76.4	421	57.0	48.4	5.8	4.2	4.7	1.0	56.4
STD DS7	Standard											22.6	111.8	66.6	412	59.8	53.9	6.8	4.3	4.5	1.0	53.4
STD DS7	Standard											22.6	111.2	68.7	395	58.8	52.8	6.0	4.2	4.4	1.0	57.8
STD DS7	Standard											21.5	105.4	66.7	400	54.3	51.2	6.2	4.4	4.4	0.9	62.4
STD OREAS45PA	Standard											1.0	619.0	19.5	126	305.1	5.1	<0.1	0.1	0.2	0.3	49.5
STD OREAS45PA	Standard											1.0	673.5	20.7	135	332.5	5.6	0.1	0.1	0.2	0.3	57.2
STD OREAS45PA	Standard											1.2	645.6	22.7	129	321.0	5.2	0.1	<0.1	0.2	0.4	57.1
STD OREAS45PA	Standard											0.8	631.8	18.2	123	320.5	6.1	<0.1	<0.1	0.2	0.3	91.8
STD OREAS45PA	Standard											1.0	593.0	21.4	113	296.0	3.9	<0.1	<0.1	0.2	0.3	46.6
STD OREAS45PA	Standard											0.9	604.6	20.5	121	308.6	4.0	<0.1	0.1	0.2	0.3	46.2
STD OREAS45PA	Standard											0.9	601.6	19.6	116	288.0	4.8	<0.1	0.1	0.2	0.3	60.7
STD OREAS76A	Standard										0.14	17.87										
STD OREAS76A	Standard										0.12	17.17										
STD OREAS76A	Standard										0.14	18.47										
STD OREAS76A	Standard										0.13	18.29										
STD OREAS76A	Standard										0.15	17.62										
STD SO-18	Standard	0.48	2.79	0.58	1.70	0.26	1.70	0.26														
STD SO-18	Standard	0.48	2.82	0.59	1.74	0.26	1.71	0.26														



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QUALITY CONTROL REPORT

VAN10005282.1

		1DX Hg ppm 0.01	1DX TI ppm 0.1	1DX Se ppm 0.5
10-PR-124-2	Rock	<0.01	<0.1	<0.5
DUP 10-PR-124-2	QC	<0.01	<0.1	<0.5
Reference Materials				
STD CSC	Standard			
STD CSC	Standard			
STD CSC	Standard			
STD CSC	Standard			
STD CSC	Standard			
STD DS7	Standard	0.21	4.0	3.5
STD DS7	Standard	0.23	4.3	3.2
STD DS7	Standard	0.21	4.0	3.7
STD DS7	Standard	0.23	4.2	3.3
STD DS7	Standard	0.23	3.9	2.4
STD DS7	Standard	0.20	3.7	3.8
STD OREAS45PA	Standard	0.02	<0.1	0.7
STD OREAS45PA	Standard	0.03	<0.1	0.7
STD OREAS45PA	Standard	0.02	<0.1	0.8
STD OREAS45PA	Standard	0.04	<0.1	0.5
STD OREAS45PA	Standard	0.05	<0.1	<0.5
STD OREAS45PA	Standard	0.03	<0.1	<0.5
STD OREAS45PA	Standard	0.03	<0.1	<0.5
STD OREAS76A	Standard			
STD OREAS76A	Standard			
STD OREAS76A	Standard			
STD OREAS76A	Standard			
STD OREAS76A	Standard			
STD SO-18	Standard			
STD SO-18	Standard			



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QUALITY CONTROL REPORT

VAN10005282.1

	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	1	0.2	0.1
STD SO-18	Standard	58.32	14.05	7.53	3.33	6.34	3.69	2.13	0.69	0.82	0.39	0.545	36	24	1.9	99.75	516	<1	26.9	7.0	
STD SO-18	Standard	58.21	14.15	7.52	3.34	6.33	3.72	2.13	0.69	0.81	0.39	0.552	42	24	1.9	99.75	515	1	26.7	7.1	
STD SO-18	Standard	58.15	14.06	7.66	3.35	6.33	3.65	2.15	0.69	0.84	0.40	0.555	45	26	1.9	99.73	517	<1	26.7	6.9	
STD SO-18	Standard	58.29	13.92	7.60	3.36	6.37	3.67	2.15	0.69	0.84	0.39	0.551	45	24	1.9	99.75	520	<1	26.8	7.3	
STD SO-18	Standard	57.95	14.08	7.69	3.37	6.38	3.72	2.17	0.70	0.84	0.40	0.560	40	25	1.9	99.75	527	<1	28.0	7.0	
STD SO-18	Standard	58.19	14.06	7.57	3.37	6.32	3.70	2.16	0.69	0.83	0.40	0.559	46	25	1.9	99.76	491	<1	26.4	6.8	
STD SO-18	Standard	57.95	14.13	7.65	3.44	6.36	3.70	2.16	0.69	0.83	0.40	0.556	62	26	1.9	99.75	505	1	26.8	6.9	
STD SO-18	Standard	58.08	14.11	7.58	3.41	6.35	3.70	2.15	0.68	0.83	0.40	0.550	59	25	1.9	99.74	502	<1	26.7	6.7	
STD SO-18	Standard	58.26	14.06	7.55	3.33	6.31	3.71	2.17	0.69	0.82	0.39	0.548	44	24	1.9	99.74	503	<1	25.4	6.8	
STD SO-18	Standard	58.07	14.10	7.63	3.34	6.32	3.74	2.16	0.69	0.82	0.39	0.553	42	25	1.9	99.74	508	<1	25.6	6.7	
STD SO-18	Standard	58.17	14.03	7.60	3.35	6.37	3.70	2.16	0.70	0.83	0.39	0.557	44	26	1.9	99.76	503	<1	26.5	6.9	
STD SO-18	Standard	58.15	14.01	7.64	3.36	6.34	3.70	2.16	0.69	0.83	0.40	0.558	53	26	1.9	99.75	518	<1	27.0	7.0	
STD CSC Expected																					
STD OREAS76A Expected																					
STD DS7 Expected																					
STD OREAS45PA Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	44	25			514		26.2	7.1	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	



APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

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QUALITY CONTROL REPORT

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		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
STD SO-18	Standard	17.6	9.8	22.2	27.9	15	405.2	7.4	10.1	16.5	210	14.8	297.4	31.9	11.9	26.8	3.24	13.9	2.79	0.85	2.86
STD SO-18	Standard	17.8	9.5	22.1	28.2	15	400.8	7.4	10.3	16.1	206	14.9	296.3	31.5	11.8	26.7	3.26	13.8	2.82	0.86	2.85
STD SO-18	Standard	17.9	9.3	23.1	29.4	15	408.8	7.2	10.3	16.3	208	14.1	293.7	32.1	12.1	27.6	3.35	13.7	2.86	0.85	2.94
STD SO-18	Standard	17.4	9.7	22.6	28.7	15	414.2	7.3	10.0	16.3	205	14.8	291.0	31.6	12.2	27.5	3.33	13.7	2.81	0.85	2.90
STD SO-18	Standard	17.6	9.5	23.0	28.4	15	415.1	7.2	9.9	16.2	212	14.4	289.4	31.8	12.1	27.8	3.33	13.8	2.82	0.86	2.95
STD SO-18	Standard	17.0	9.3	21.4	27.9	15	400.3	7.0	9.9	15.8	203	14.2	276.9	30.9	11.6	26.9	3.22	13.3	2.72	0.82	2.82
STD SO-18	Standard	18.1	9.3	21.5	28.7	15	401.0	6.8	10.3	16.2	206	14.7	276.9	30.9	11.8	26.0	3.44	13.8	2.86	0.84	2.88
STD SO-18	Standard	17.7	9.0	21.9	29.0	15	408.1	6.8	9.7	16.4	207	14.4	275.7	31.4	11.6	26.6	3.23	13.6	2.81	0.84	2.92
STD SO-18	Standard	16.5	9.5	21.3	27.3	15	408.2	6.9	10.3	15.8	202	14.0	283.5	30.6	11.6	26.3	3.21	13.1	2.72	0.82	2.76
STD SO-18	Standard	16.3	9.1	21.0	27.0	14	406.9	7.0	9.7	16.0	205	14.2	281.7	30.7	11.9	26.7	3.26	13.4	2.70	0.85	2.77
STD SO-18	Standard	17.4	9.3	22.0	28.9	15	396.9	6.9	9.8	16.1	207	14.4	286.2	31.0	11.9	27.1	3.25	13.7	2.79	0.82	2.80
STD SO-18	Standard	17.5	9.6	22.3	28.9	15	403.8	7.1	10.2	16.1	206	14.6	286.4	31.4	12.0	27.6	3.32	13.3	2.83	0.84	2.87
STD CSC Expected																					
STD OREAS76A Expected																					
STD DS7 Expected																					
STD OREAS45PA Expected																					
STD SO-18 Expected		17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45	14	3	0.89	2.93
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.3	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.6	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.1	0.5	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05

APPENDIX 3: ACME ASSAY RESULTS AND STANDARDS, UBC

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QUALITY CONTROL REPORT

VAN10005282.1

		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B 2A Leco	2A Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	
STD SO-18	Standard	0.49	2.83	0.59	1.78	0.26	1.73	0.26			0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.5
STD SO-18	Standard	0.49	2.81	0.58	1.74	0.27	1.74	0.26														
STD SO-18	Standard	0.49	2.85	0.60	1.76	0.27	1.80	0.26														
STD SO-18	Standard	0.50	2.92	0.61	1.81	0.27	1.76	0.27														
STD SO-18	Standard	0.50	2.98	0.61	1.79	0.27	1.74	0.27														
STD SO-18	Standard	0.48	2.77	0.58	1.74	0.26	1.68	0.26														
STD SO-18	Standard	0.49	2.82	0.59	1.78	0.26	1.74	0.26														
STD SO-18	Standard	0.49	2.79	0.59	1.80	0.26	1.77	0.27														
STD SO-18	Standard	0.48	2.75	0.59	1.77	0.27	1.69	0.26														
STD SO-18	Standard	0.48	2.87	0.59	1.71	0.27	1.68	0.26														
STD SO-18	Standard	0.48	2.80	0.60	1.76	0.26	1.73	0.26														
STD SO-18	Standard	0.49	2.90	0.59	1.75	0.26	1.73	0.27														
STD CSC Expected									2.94	4.25												
STD OREAS76A Expected									0.16	18												
STD DS7 Expected											20.5	109	70.6	411	56	48.2	6.4	4.6	4.5	0.9	70	
STD OREAS45PA Expected											0.9	600	19	119	281	4.2	0.09	0.13	0.18	0.3	43	
STD SO-18 Expected		0.53	3	0.62	1.84	0.27	1.79	0.27														
BLK	Blank								<0.02	<0.02												
BLK	Blank								<0.02	<0.02												
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														
BLK	Blank								<0.02	<0.02												
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														
BLK	Blank								<0.02	<0.02												
BLK	Blank								<0.02	<0.02												
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														



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**Project:** ZIMTU 2010  
**Report Date:** October 29, 2010

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QUALITY CONTROL REPORT

VAN10005282.1

		1DX Hg ppm 0.01	1DX TI ppm 0.1	1DX Se ppm 0.5
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD CSC Expected				
STD OREAS76A Expected				
STD DS7 Expected		0.2	4.2	3.5
STD OREAS45PA Expected		0.03	0.07	0.54
STD SO-18 Expected				
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank			
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank			



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QUALITY CONTROL REPORT

VAN10005282.1

	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	
Prep Wash																					
G1	Prep Blank	<0.01	66.71	16.16	3.48	1.11	3.53	3.66	3.81	0.41	0.19	0.10	0.002	<20	6	0.6	99.76	1072	3	4.0	4.3
G1	Prep Blank	<0.01	66.63	16.16	3.48	1.11	3.56	3.71	3.82	0.40	0.20	0.10	<0.002	<20	6	0.6	99.76	1055	3	4.2	3.9

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QUALITY CONTROL REPORT

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		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.5	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
BLK	Blank																				
BLK	Blank	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
Prep Wash																					
G1	Prep Blank	18.4	3.9	25.1	127.7	1	706.5	1.4	8.5	3.1	50	<0.5	139.6	16.0	27.8	56.4	6.41	23.0	3.98	1.02	3.05
G1	Prep Blank	18.1	3.9	24.3	124.7	1	715.1	1.4	8.3	3.0	49	<0.5	132.7	15.8	29.9	59.8	6.57	24.3	3.93	1.06	3.14

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QUALITY CONTROL REPORT

VAN10005282.1

		4A-4B Tb ppm 0.01	4A-4B Dy ppm 0.05	4A-4B Ho ppm 0.02	4A-4B Er ppm 0.03	4A-4B Tm ppm 0.01	4A-4B Yb ppm 0.05	4A-4B Lu ppm 0.01	2A Leco TOT/C % 0.02	2A Leco TOT/S % 0.02	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ni ppm 0.1	1DX As ppm 0.5	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01													
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01													
BLK	Blank										<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01													
Prep Wash																					
G1	Prep Blank	0.47	2.68	0.52	1.50	0.25	1.75	0.26	<0.02	<0.02	0.1	3.6	3.8	51	3.2	0.6	<0.1	<0.1	1.2	<0.1	13.9
G1	Prep Blank	0.48	2.58	0.50	1.56	0.24	1.70	0.27	<0.02	<0.02	<0.1	5.0	3.6	48	3.3	1.0	<0.1	<0.1	1.0	<0.1	8.4



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Project: ZIMTU 2010

Report Date: October 29, 2010

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## QUALITY CONTROL REPORT

VAN10005282.1

		1DX Hg ppm 0.01	1DX TI ppm 0.1	1DX Se ppm 0.5
BLK	Blank			
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank			
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank			
Prep Wash				
G1	Prep Blank	0.03	0.4	<0.5
G1	Prep Blank	0.01	0.3	<0.5

## APPENDIX 4: STATEMENT OF QUALIFICATIONS

Andy Hoffman is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained a degree in Geology from the University of Alberta, Edmonton in 2009 and has been employed in the mineral exploration industry since. He is registered as a Geol. I.T. with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.

Matthew Carter obtained a B. Sc. in Geology from the University of Alberta in 2010 and has been practicing his profession with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta, since May 2010. He is registered as a Geol.I.T. with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.



## APPENDIX 5: SAMPLE DESCRIPTIONS

Note: UTM coordinates are NAD83, Zone 11N.

Sample No.	Sample Type	Description	Easting (m)	Northing (m)	TREE + Y (ppm)	Nb (ppm)
71701	chip	<b>Carbonatite:</b> fine-grained to medium-grained, orange weathered, white fresh; Biotite, fine-grained to medium-grained, black; Unidentified black mineral, fine-grained, rare, 10-40cm beds of biotite/amphibole.	387730	5684128	1463.9	82.8
71702	chip	<b>Fenite:</b> 85% biotite, 15% amphibole, coarse-grained, occurs with small pockets of carbonatite (4-6cm).	387730	5684128	765.5	188.7
71704	chip	<b>Alteration Zone:</b> 60% quartz, fine-grained; 40% amphibole, coarse-grained; <5% unidentified clear mineral.	387680	5684313	226.4	28.2
71705	chip	<b>Carbonatite:</b> fine-grained to medium-grained, orange weathered, white fresh; Biotite, fine-grained to medium-grained, black; Unidentified black mineral, fine-grained, rare; Yellowish-green mineral, 5%.	385296	5681342	80.0	6.8
71720	chip	<b>Fenite:</b> 90% biotite, medium-grained, black; 10% calcite, coarse-grained; < 5% magnetite, coarse-grained; rock displays vuggy texture.	379971	5677845	1424.6	194.0
71721	chip	<b>Syenite:</b> 60% feldspar, 40% biotite, very fine-grained, modal percentages may be inaccurate, interbedded with unit of previous sample.	379971	5677845	408.0	145.8
71722	chip	<b>Syenite:</b> grey weathered, black and white fresh, 80% feldspar, 15% bt, <5% brown vitreous mineral.	379947	5678293	176.6	262.3
71723	chip	<b>Feldspathic Pegmatite:</b> 90% feldspar, coarse-grained; 5% biotite; 5% unidentified black mineral, fine-grained.	379947	5678293	86.5	26.4
71724	chip	<b>Ultramafic:</b> coarse-grained black mineral in fine-grained matrix, mineralogy unknown, "bubbly" texture.	379947	5678303	48.7	8.0
71725	chip	<b>Biotite-Amphibole Schist:</b> 40% quartz, 40% biotite/amphibole, 15% feldspar, 5% chlorite, <5% unidentified brown-orange mineral/sulphides/garnet.	379832	5679271	202.9	16.7
71726	chip	<b>Biotite Amphibolite:</b> 45% amphibole, fine-grained; 45% biotite, medium-grained; 10% quartz/feldspar, fine-grained, biotite appears in layers, M-folds in area (cm scale).	379733	5679221	198.9	9.7
71727	chip	<b>Amphibole Schist:</b> 60% biotite, medium-grained; 20% feldspar, fine-grained; 15% amphibole, fine-grained; 5% sulphide, fine-grained; sulphides occur within interbedded feldspar layer, 1cm thick.	379627	5679172	404.2	71.5
71728	chip	<b>Alteration Zone:</b> 70% light grey mineral; 15% quartz, coarse-grained; 15% biotite, unit appears altered, undulatory foliation sharply defined, large quartz clasts within unit (4-5 cm).	379627	5679172	457.0	24.8
71729	chip	<b>Feldspathic Pegmatite:</b> 85% potassium feldspar, coarse-grained; 5% quartz, coarse-grained; 5% sulphide, medium-grained; 5% biotite, medium-grained, pink weathered/fresh.	379565	5679158	578.8	48.6
71730	chip	<b>Biotite-Amphibole-Calcite Schist:</b> 85% biotite/amphibole, medium-grained; 10% calcite, coarse-grained; 5% unidentified brown mineral, medium-grained to coarse-grained, calcite in pockets within biotite; brown mineral within calcite.	379540	5679144	1168.0	236.4
10-PR-002	float	<b>Biotite-Amphibole Hornfels to Granofels:</b> medium-grained, massive, black.	388222	5683468	129.5	9.5
10-PR-004-1	chip	<b>Calcite-Biotite-Apatite-Titanite-Amphibole Granofels:</b> medium-grained to coarse-grained, massive, black.	387751	5684184	1364.1	157.7

Sample No.	Sample Type	Description	Easting (m)	Northing (m)	TREE + Y (ppm)	Nb (ppm)
10-PR-004-2	chip	<b>Intrusive Carbonatite</b> ; medium-grained to coarse-grained, weakly foliated, grey or buff if weathered.	387751	5684184	7441.3	97.6
10-PR-008	chip	<b>Calcite-Titanite-Pyroxene-Olivine-Amphibole Hornfels to Granofels</b> ; medium-grained, massive, green.	387729	5684382	628.8	43.1
10-PR-011	chip	<b>Interlayered Biotite Gneiss and Massive Titanite-Amphibole Hornfels to Granofels</b> ; medium-grained, massive but partially foliated, dark grey.	387750	5684175	754.5	84.6
10-PR-012	chip	<b>Calcite-Titanite-Amphibole-Biotite Schist</b> ; medium-grained, foliated, greenish-black.	387769	5684184	740.3	262.2
10-PR-013	chip	<b>Amphibole-Syenite Gneiss</b> ; medium-grained, weakly foliated, black-white.	387766	5684182	288.4	61.7
10-PR-014	chip	<b>Biotite Gneiss</b> ; medium-grained, foliated, grey-white.	387759	5684188	315.6	74.6
10-PR-018	chip	<b>Titanite-Amphibole Granofels</b> ; medium-grained to coarse-grained, massive, black.	385365	5681436	787.7	113.8
10-PR-019-1	chip	<b>Syenitic Gneiss</b> ; medium-grained, weakly foliated, light grey.	385362	5681404	1157.9	185.3
10-PR-019-2	chip	<b>Syenitic Gneiss</b> ; medium-grained, weakly foliated, light grey.	385362	5681404	647.5	155.6
10-PR-020-1	chip	<b>Marble</b> ; medium-grained, massive, buff to white, impure.	385297	5681338	46.2	3.0
10-PR-020-2	chip	<b>Marble</b> ; medium-grained, massive, buff to white, impure.	385297	5681338	71.4	4.4
10-PR-020-3	chip	<b>Skarn</b> ; medium-grained, massive, green.	385297	5681338	1297.3	43.7
10-PR-044	talus	<b>Feldspar Crystals on Fracture Surface</b> ; coarse-grained, massive, black and white.	379993	5678384	N/A	N/A
10-PR-045	float	<b>Pyroxene-Amphibole Hornfels to Granofels</b> ; medium-grained, massive, black.	379926	5678075	132.3	10.0
10-PR-046	chip	<b>Magnetite-Calcite-Biotite Schist</b> ; medium-grained, massive, black.	379967	5677849	1778.3	227.4
10-PR-047-1	chip	<b>Syenitic Gneiss</b> ; medium-grained, weakly foliated, light grey.	379992	5678005	99.1	70.2
10-PR-047-2	chip	<b>Muscovite-Feldspar-Quartz Pegmatite</b> ; coarse-grained, massive, white to off-white.	379992	5678005	863.7	290.1
10-PR-048-1	chip	<b>Syenitic Gneiss</b> ; medium-grained, massive to foliated, light grey.	379947	5678293	203.8	197.8
10-PR-048-2	chip	<b>Syenitic Gneiss</b> ; medium-grained, foliated, light to dark grey.	379947	5678293	168.7	162.6
10-PR-049-1	talus	<b>Biotite-Amphibole-Pyroxene Granofels</b> ; coarse-grained, massive, dark grey.	379935	5678295	49.7	9.3
10-PR-049-2	talus	<b>Syenitic Gneiss</b> ; medium-grained, foliated, light grey.	379935	5678295	606.0	237.1
10-PR-051	chip	<b>Biotite Augen Gneiss</b> ; medium-grained, foliated, grey-white.	372497	5671221	310.6	43.0
10-PR-053-1	chip	<b>Garnet-Amphibole-Pyroxene-Quartz Vein in Biotite Gneiss</b> ; medium-grained, foliated, white/dark grey.	379835	5679277	298.7	69.1
10-PR-053-2	chip	<b>Biotite Gneiss</b> ; medium-grained, partially foliated, white-grey, metasomatized.	379835	5679277	348.9	18.3
10-PR-061-1	chip	<b>Biotite Gneiss</b> ; medium-grained, foliated, greenish-brown, metasomatized.	379623	5679158	504.6	97.6
10-PR-061-2	chip	<b>Biotite Gneiss</b> ; medium-grained, foliated, greenish-brown, metasomatized.	379623	5679158	N/A	N/A
10-PR-061-3	chip	<b>Biotite Gneiss</b> ; medium-grained, foliated, greenish-brown, metasomatized.	379623	5679158	N/A	N/A
10-PR-062-1	chip	<b>Biotite Gneiss</b> ; medium-grained, foliated, greenish-brown, metasomatized.	379591	5679152	261.5	12.0
10-PR-062-2	chip	<b>K-Feldspar-Biotite Pegmatite</b> ; coarse-grained, weakly foliated, pink/black.	379591	5679152	2230.3	313.0

Sample No.	Sample Type	Description	Easting (m)	Northing (m)	TREE + Y (ppm)	Nb (ppm)
10-PR-063	float	<b><u>Titanite-Amphibole Granofels;</u></b> coarse-grained, massive, black.	379540	5679160	1221.1	259.2
10-PR-064-1	chip	<b><u>K-Feldspar-Biotite-Muscovite Pegmatite;</u></b> coarse-grained, massive, light grey.	379468	5679156	211.0	191.4
10-PR-064-2	chip	<b><u>Biotite Gneiss;</u></b> medium-grained, foliated, greenish-grey, metasomatized.	379468	5679156	217.6	12.9
10-PR-068-1	chip	<b><u>Garnet-Pyroxene-Quartz Vein/Pocket in Biotite Gneiss;</u></b> medium-grained, massive, grey-green.	378304	5679026	N/A	N/A
10-PR-068-2	chip	<b><u>Garnet-Mica-Pyroxene-Quartz Vein in Biotite Gneiss;</u></b> medium-grained, foliated, grey.	378304	5679026	N/A	N/A
10-PR-ATV-01	float	<b><u>Calcite-Phlogopite-Amphibole Gneiss;</u></b> medium-grained, foliated, medium grey.	379958	5679318	497.0	44.6
10-PR-122	chip	<b><u>Calcite-Biotite-Titanite-Amphibole Hornfels to Granofels;</u></b> medium-grained, weakly foliated, greenish-brown to black.	387744	5684274	1661.9	177.0
10-PR-123	chip	<b><u>Calcite-Mica-Titanite-Amphibole Hornfels to Granofels;</u></b> medium-grained, massive, greenish-black.	387748	5684289	338.3	45.3
10-PR-124-1	chip	<b><u>Calcite-Biotite-Titanite-Amphibole Granofels;</u></b> medium-grained to coarse-grained, massive, brown-black.	387746	5684452	2322.0	594.5
10-PR-124-2	chip	<b><u>Calcite-Biotite-Pyroxene-Amphibole Hornfels to Granofels;</u></b> medium-grained, massive, greenish-black.	387746	5684452	634.2	71.2
10-PR-124-3	chip	<b><u>Biotite-Muscovite-Amphibole Hornfels to Granofels;</u></b> medium-grained, massive, greenish-grey to black.	387746	5684452	626.4	68.6
10-PR-124-4	chip	<b><u>Carbonatite/Fenite;</u></b> medium-grained, massive, grey-black.	387746	5684452	1907.5	76.0