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Government of Yukon

# Report on the 2009 Exploration Work on the Snowcap Property

Whitehorse Mining District, Yukon Territory
NTS Sheet 105L/02
62° 05' N 134° 54' W
Nov. 8-12, 2009

**Claims:**
Snow 1-46 (YD17991 - YD18036)
Cap 1-108 (YD17883 - YD17990)
Trend 1-28 (YD17855 - YD17882)
Trend 29-44 (YD18037 - YD18052)

**For: Wesgold Minerals Inc.**
830-355 Burrard Street
Vancouver, BC
V6C 2G8

**By: Harmen J. Keyser**, P.Geol.
520-355 Burrard Street
Vancouver, BC
V6C 2G8

and

**Lori A. Walton**, P.Geol.
#220 17010 – 103rd Avenue
Edmonton, AB
T5S 1K7

January 15, 2010

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# SUMMARY

The Snowcap Property consists of 198 quartz claims covering 41 $km^2$. It is located 70 kilometres east of Carmacks, Yukon Territory, Canada. Wesgold Minerals Inc. has an option to acquire a 60% interest in the Snowcap Property from Radius Gold Inc.

The Snowcap Property is underlain by a complex series of Paleozoic, Mesozoic, and Tertiary metamorphic, igneous, and sedimentary rocks. The Property is approximately centered on the Big Salmon Fault, a fundamental crustal discontinuity separating autochthonous rocks to the east from accreted terranes to the west. The geology of the Snowcap Property is dominated by variably altered subaerial Tertiary felsic volcanic and associated sedimentary rocks unconformably overlying older crystalline and mafic volcanic rocks. Outcrop is rare and, although there is no known gold mineralization on the Property, there are characteristics of epithermal gold mineralization including quartz-sericite alteration and anomalous Au-Hg geochemistry. The geological setting is interpreted as suitable for hosting epithermal style gold mineralization in a structurally controlled environment related to Tertiary volcanic centres now preserved in a graben.

Exploration work completed by Wesgold in 2009 consisted of 757 line km of airborne multi-sensor geophysics, collection of 157 soil samples, and reconnaissance geological mapping. The geophysical data show distinctive aeromagnetic lows closely coincident with known felsic volcanic centres, surrounded by broader radiometric highs dominated by potassium. Analysis of results from soil geochemistry has identified anomalous values of mercury and gold coincident with variably altered felsic volcanic centres in areas of extensive glacial cover.

Results of exploration work carried out to date are suggestive of epithermal-style gold mineralization within, or closely proximal to, Tertiary felsic volcanic centres on the Snowcap Property. Based on these results, additional exploration work is warranted and recommended.

## INTRODUCTION

This report was prepared for Wesgold Minerals Inc. ("Wesgold"). Its purpose is to satisfy assessment requirements of the Yukon *Quartz Mining Act* through a description of exploration work carried out in 2009 and an assessment of the exploration potential of the Snowcap Property

The Snowcap Property is located in central Yukon Territory (Figure 1). Exploration work completed on the Property consists of geological mapping, geochemical sampling, and geophysical surveys. Work programs completed to date had the overall objective of identifying potential bedrock gold mineralization.

## PROPERTY DESCRIPTION AND LOCATION

The Snowcap Property[1] is situated about 70 kilometres east of Carmacks in central Yukon Territory on NTS map sheet 105L/2 and Yukon Quartz Claim Map 105-L-2. The Property is centered at 62° 05'N and 134° 54'W (UTM coordinates 503000E 688400N; NAD 83, Zone 8N) about 9 kilometers south of the west end of Little Salmon Lake. It covers an area of 4,130 hectares (41.3 square kilometres) and consists of 198 contiguous unsurveyed mineral claims located under the *Quartz Mining Act* of Yukon Territory in the Whitehorse Mining District (Figure 2).

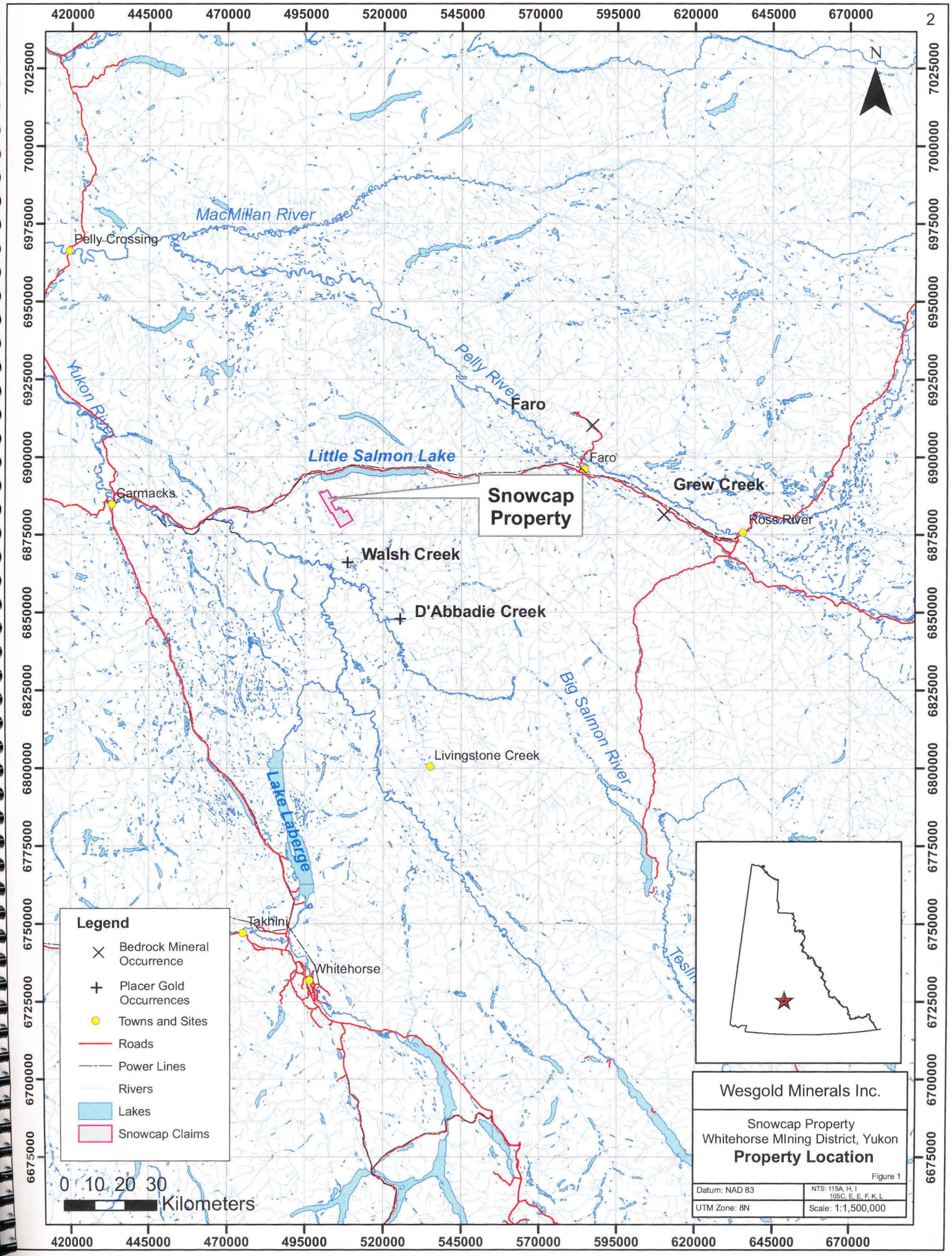
The Snowcap Property is located within the traditional territory of the Little Salmon-Carmacks First Nation. Portions of the northern and northeastern Snowcap Property cover Category "B" settlement lands under the Yukon Umbrella Final Agreement which came into effect February 14, 1995. For Category "B" lands, the Little Salmon-Carmacks First Nation owns the surface rights and accordingly this will require that Wesgold negotiates a partnership agreement with the Little Salmon-Carmacks First Nation before undertaking any mechanized surface work on those lands as described in Yukon Energy, Mines, and Resources Interpretive Bulletin 2009-03. Wesgold does not hold any title to surface rights within the limits of the Property, nor do any of the claims cover Category "A" settlement lands. Claim data are listed in Table 1.

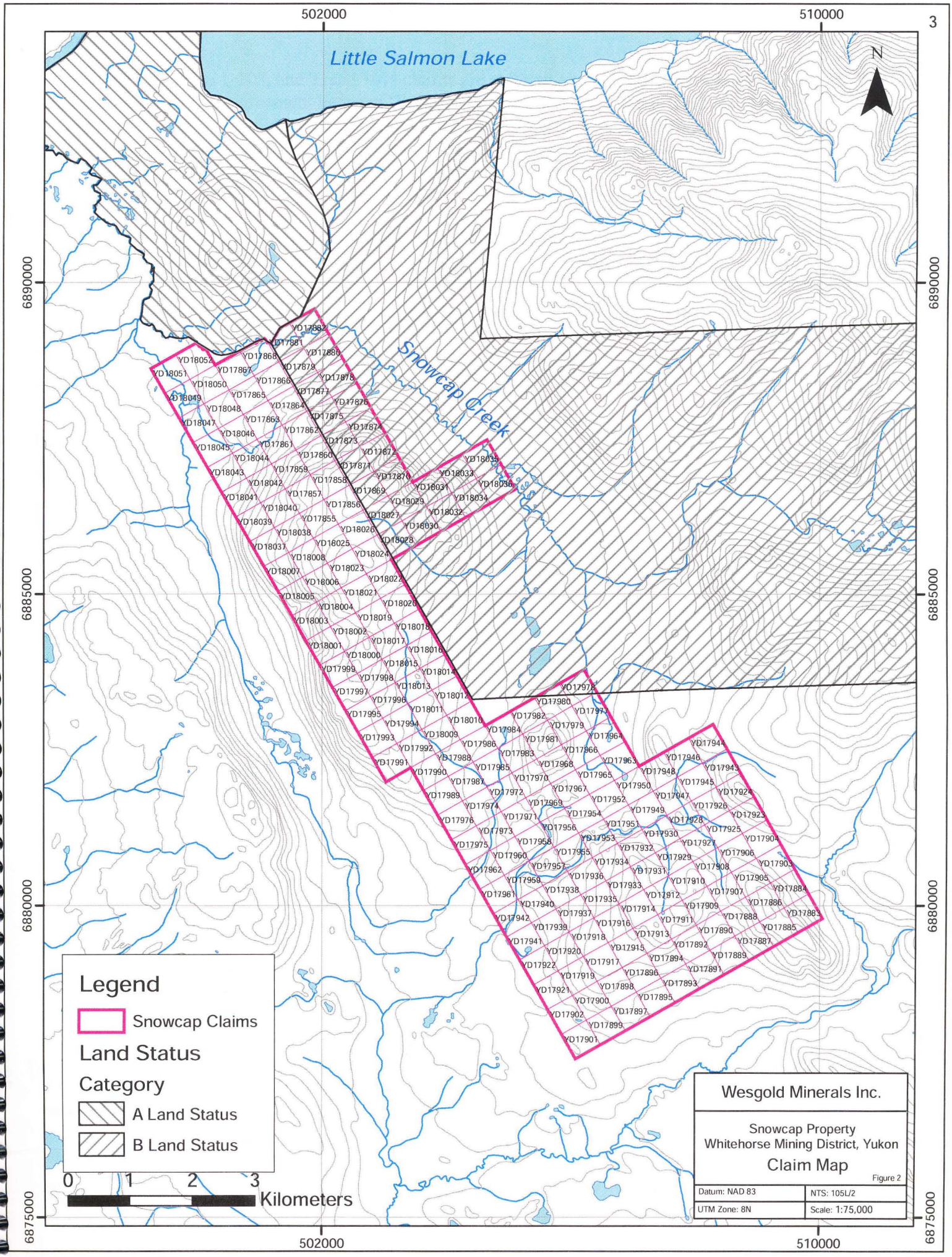
**Table 1.** Snowcap Property Claims.

| Claim Name | Tag + Grant Number | Registered Owner | Expiry Date* |
|---|---|---|---|
| Snow 1-46 | YD17991 - YD18036 | Radius Gold Inc. | November 4, 2012 |
| Cap 1-108 | YD17883 - YD17990 | Radius Gold Inc. | November 4, 2012 |
| Trend 1-28 | YD17855 - YD17882 | Radius Gold Inc. | November 4, 2012 |
| Trend 29-44 | YD18037 - YD18052 | Radius Gold Inc. | November 4, 2012 |

* Subject to acceptance of assessment credits described in this report

[1] Nothing in this report is intended to guarantee security of mineral title


420000
445000
470000
495000
520000
545000
570000
595000
620000
645000
670000
7025000
7000000
6975000
6950000
6925000
6900000
6875000
6850000
6825000
6800000
6775000
6750000
6725000
6700000
6675000
N
MacMillan River
Pelly Crossing
Pelly River
Yukon River
Faro
Little Salmon Lake
Faro
Grew Creek
Carmacks
Snowcap Property
Ross River
Walsh Creek
D'Abbadie Creek
Big Salmon River
Livingstone Creek
Lake Laberge
Takhini
Whitehorse
Tesli
Legend
Bedrock Mineral Occurrence
Placer Gold Occurrences
Towns and Sites
Roads
Power Lines
Rivers
Lakes
Snowcap Claims
0 10 20 30
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse MIning District, Yukon
Property Location
Figure 1
Datum: NAD 83
NTS: 115A, H, I
105C, E, E, F, K, L
UTM Zone: 8N
Scale: 1:1,500,000


502000
510000
6890000
6885000
6880000
6875000
Little Salmon Lake
Snowcap Creek
N
Legend
Snowcap Claims
Land Status
Category
A Land Status
B Land Status
0 1 2 3
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Claim Map
Figure 2
Datum: NAD 83
NTS: 105L/2
UTM Zone: 8N
Scale: 1:75,000

The Snow 1-46, Cap 1-108, and Trend 1-44 claims are collectively called the Snowcap Property. In accordance with an agreement between Wesgold Minerals Inc. and Radius Gold Inc. dated November 6, 2009, Wesgold has the exclusive right and option to acquire a 60% interest in the Snowcap Property by issuing 1,000,000 Wesgold shares to Radius and completing CDN $1,000,000 of exploration work as listed in Table 2.

**Table 2.** Wesgold's payment and work commitment obligations to Radius Gold Inc. to earn a 60% interest in the Snowcap Property.

| Due Date | Shares | Expenditures |
|---|---|---|
| On Signing | 200,000 | --- |
| December 31, 2010 | --- | $200,000 |
| On public listing of Wesgold | 200,000 | --- |
| October 30, 2011 | 200,000 | $200,000 |
| October 30, 2012 | 200,000 | $300,000 |
| October 30, 2013 | 200,000 | $400,000 |
| Total: | 1,000,000 | C$1,000,000 |

Once Wesgold has completed its share payments and exploration expenditures, Wesgold and Radius Gold Inc. will enter into a 60/40 joint venture to further explore and develop the Property.

Mineral claims within the Yukon Territory are covered by the *Quartz Mining Act* and are physically staked by placing two claim posts at each end of the location line for the claim. Mineral claims cannot measure more than 1500 feet by 1500 feet (457.2 x 457.2 meters) and are valid for one year from the date of staking. Assessment work such as geological mapping, geochemical or geophysical surveys, trenching or diamond drilling, must be completed each year to maintain title, or alternatively cash in lieu of assessment may be paid to the mining recorder. A minimum annual work commitment of $100 per claim is required to keep claims in good standing. Expenditures exceeding the minimum requirements can be credited to future years and adjoining claims can be grouped together (to a maximum of 750 mineral claims) so that work done on one claim may be filed onto adjoining ground.

The *Quartz Mining Land Use Regulations* classify exploration activities based on increased potential for adverse environmental impact. No notification, assessment, or permit approval is required for Class 1 operations, which covers grassroots-type exploration. Wesgold's 2009 work program, described in this report, was a Class 1 operation and accordingly no notification or approval was required. Future work with physical ground disturbance such as road building, drilling, and trenching may require appropriate notification and approvals prior to commencement, according to various specified threshold levels.

There are no known environmental liabilities on the Property and no formally designated parks or special management zones within the Property. Portions of the northern and northeastern Snowcap Property cover Category "B" settlement lands of the Little Salmon-Carmacks First Nation. No zones of mineralization have been identified to date on the Property.

## ACCESS, CLIMATE, AND PHYSIOGRAPHY

The Snowcap Property is located in central Yukon Territory, between 4 and 15 kilometers south of Little Salmon Lake. Access is provided by following the all-weather paved Klondike Highway from the capital city of Whitehorse 200 km north to the village of Carmacks. From Carmacks access to the Property is by helicopter, a distance of 70 km. Alternative access is provided by the all-weather Robert Campbell Highway which connects Carmacks with the towns of Faro and Ross River. The Magundy airstrip (5 km north of the northern Snowcap Property boundary) provides a convenient helicopter staging area along the Robert Campbell Highway.

Climate in the claim area is typical of central Yukon, with warm summers and long cold winters. The average annual precipitation is approximately 350 mm with one third falling as snow. The typical operating season for on-site exploration activities is from May to October.

There are no facilities on the Snowcap Property. Basic services including room and board, fuel, communications and helicopter services are available at Carmacks (population 450). The capital city of Whitehorse (population 30,000), has an international airport and full services. A major electrical transmission line connecting Whitehorse with Faro parallels the Robert Campbell Highway at Little Salmon Lake, 10 km north of the northern part of the Snowcap Property.

The Snowcap Property lies in the Yukon Plateau of the northern Cordillera (Campbell, 1967). All drainage is into the Yukon River. Topography of the area has been greatly modified by Pleistocene glaciation (Campbell, 1967). Glacial features such as eskers, moraines, and outwash are common. A veneer of glacial drift dominates surficial cover. Permafrost is present, especially in poorly drained, north-facing slopes. Outcrop is rare. Several creeks and ponds on the Property provide water for drilling activities. The Property provides sufficient area for potential future mine infrastructure such as tailings storage, waste disposal sites, heap leach pads and processing plant facilities.

Elevations in the Little Salmon Lake area range from 610 meters at Little Salmon Lake to 1780 meters at Snowcap Mountain, while elevations within the Snowcap Property range from 700 to 1240 meters.

Forest cover consists of stunted growths of spruce and pine, with various willow and birch at lower elevations. The southern half of the Property has locally thick underbrush. A forest fire in 2009 destroyed the underbrush in most of the northern half of the Property.

## HISTORY

The earliest record of mineral exploration on ground now covered by the Snowcap Property was in 1985, when Yukon prospector Al Carlos evaluated the potential for gold mineralization in Tertiary volcanic rocks previously mapped by the Geological Survey of Canada (Campbell, 1967) along the Big Salmon fault zone. After preliminary prospecting, geochemical sampling, geological mapping, and hand trenching, Mr. Carlos recognized a geological setting similar to that at the

Grew Creek epithermal gold occurrence, 120 km to the east, which was discovered by Mr. Carlos in 1983 (Garagan, 1990; Christie, et al, 1992).

Two main areas of anomalous stream sediment geochemical results coincident with altered felsic subaerial volcanics were identified (Garagan, 1990). Results were sufficiently encouraging that Comaplex Minerals Corp. took an option on the ground now covered by the Snowcap Property from Mr. Carlos in 1989 and engaged Aurum Geological Consultants Inc. to carry out a program of geological mapping, soil sampling, stream sediment sampling, hand trenching, ground geophysics, and rock sampling in 1989 and 1990 (Garagan, 1990 and Walton, 1990).

Although additional exploration work was recommended (Garagan, 1990 and Walton, 1990), the claims were allowed to lapse after 1990. No additional work was carried out on the ground until 2009 when Radius Gold Inc. recognized the potential for epithermal gold mineralization from a review of government geological data and assessment reports. The current claim block was staked, and Radius entered into an option agreement with Wesgold Minerals Inc. Wesgold completed a program of airborne geophysics, soil sampling and reconnaissance geological mapping in the fall of 2009, the results of which are summarized in this report.

There are no historical mineral resources and mineral estimates reported on the Snowcap Property and no records of previous mineral production.

# GEOLOGICAL SETTING

## Regional Geology

Central Yukon's highly complex and active tectonic history has created a diversity of depositional environments, deep-seated structures, hydrothermal centers and numerous mineral occurrences and deposits. The regional geology of the area has been adequately described by Bostock and Lees (1938), Campbell (1967), Gordey and Makepeace (2001), Colpron (2006), Colpron, et al. (2002), and Nelson and Colpron (2007), and is considered generally permissive for the development of a wide variety of mineral deposit types.

The Snowcap Property is located in the Yukon Tanana Terrane (Colpron, 2006), in the northern part of the Intermontane Terrane (Figure 3) of the Canadian Cordillera (Nelson and Colpron, 2007). The Property straddles the Big Salmon Fault (Figure 4), a northwest-trending, regional-scale, right lateral strike-slip fault separating mylonitic tectonites of the Teslin Suture Zone (Oliver and Mortenson, 1998; Hansen, 1989) and Yukon Tanana Terrane to the northeast from complex island arc assemblages of Stikine Terrane to the southwest (Simard et al, 2007).

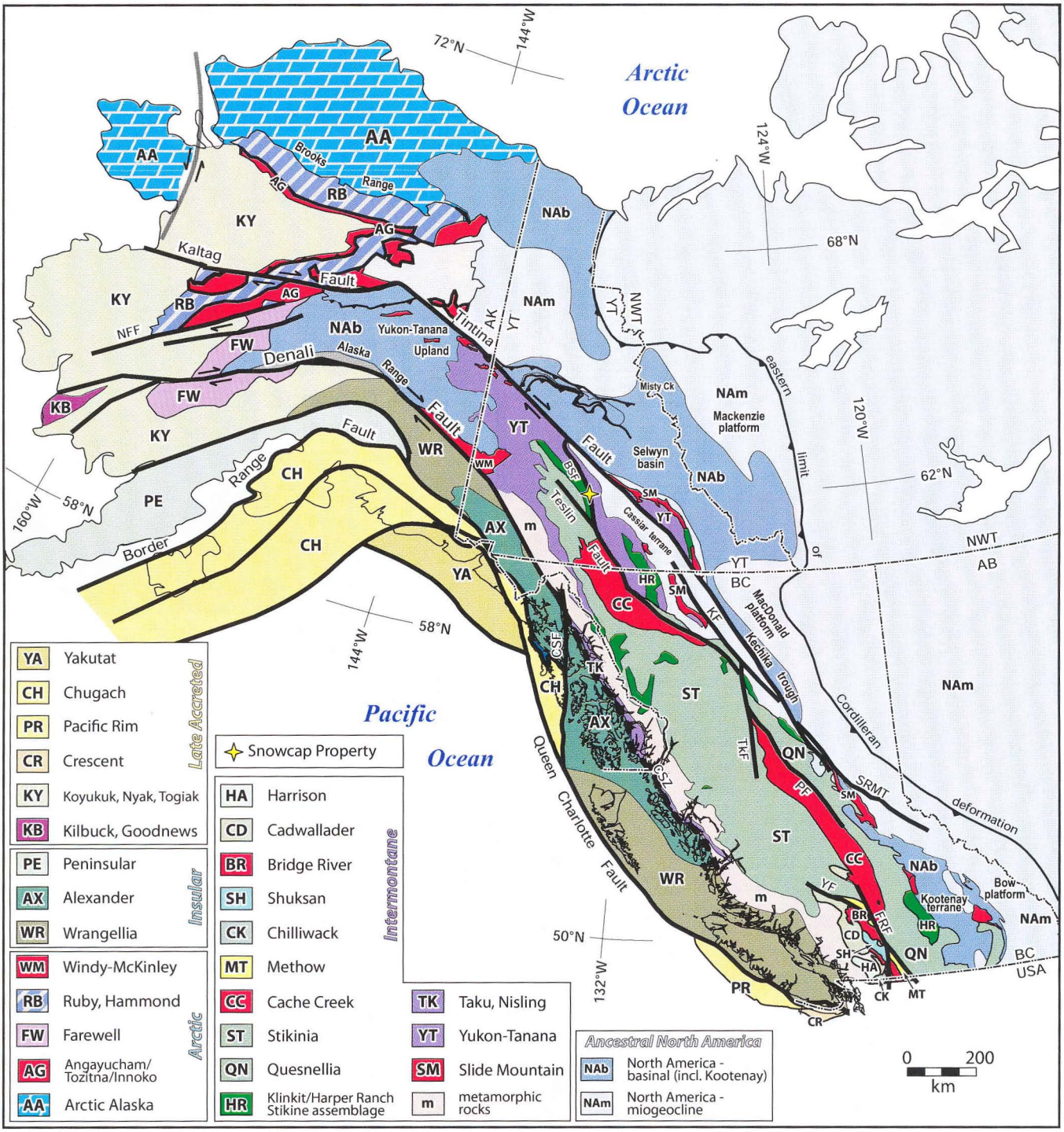
Lithologies exposed and mapped in the area of the Snowcap Property range in age from Devonian to Tertiary (Colpron, 2006; Gordey and Makepeace, 2003).

According to Colpron (2006), rocks of Yukon Tanana Terrane are of pericratonic affinity now occupying an intermediate position between continental margin rocks of Ancestral North America and accreted terranes which were accreted in Mesozoic time. Polydeformed and metamorphosed Paleozoic metasedimentary and metaigneous rocks of Yukon Tanana Terrane are related to Archean and Proterozoic source regions.

The Snowcap Property is underlain by the Snowcap assemblage, the lowermost of four unconformity-bounded tectonic assemblages recognized in Yukon Tanana Terrane (Colpron, 2006). The Snowcap assemblage consists of siliciclastic metasedimetary rocks that are interpreted to originate from the distal continental margin of Ancestral North America, with mid-Paleozoic rifting. Multiple intrusive events have cross-cut all four of the assemblages in the Yukon Tanana Terrane, and are associated with penetrative deformational and metamorphic events ranging in age from late Paleozoic to Cretaceous.

Structure in the Snowcap area is dominated by multiple, predominantly dextral, strike-slip faults with displacement beginning in the Cretaceous. At least one of the faults, the Tintina, has preserved Tertiary volcanic rocks in a fault-bounded graben at Grew Creek (Jackson, et al., 1986 and Garagan, 1990).

Most of central Yukon, including the Snowcap area, is blanketed by a layer of volcanic ash and tephra originating from plinian eruptions in southeastern Alaska about 1887 and 1147 years ago (Clague, et al., 1995). The ash ranges up to one meter thick, and, combined with extensive glacial drift (Campbell, 1967), can be a significant impediment to geological mapping and mineral exploration.

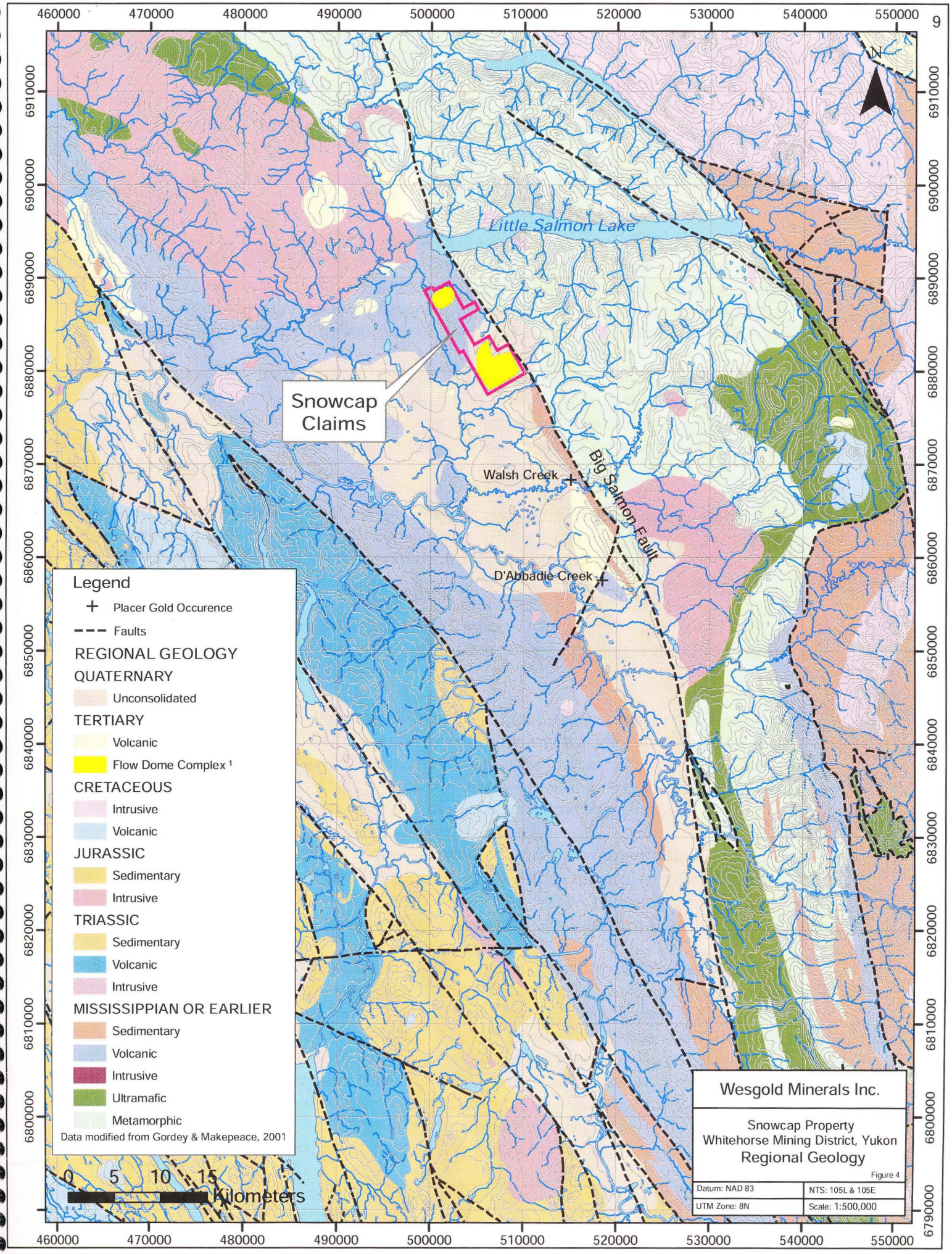



Modified from Nelson and Colpron, 2007

Wesgold Minerals Inc.

Snowcap Property
Whitehorse Mining District, Yukon
**Tectonic Setting**

February, 2010 Figure 3


460000
470000
480000
490000
500000
510000
520000
530000
540000
550000
6910000
6900000
6890000
6880000
6870000
6860000
6850000
6840000
6830000
6820000
6810000
6800000
6790000
N
Little Salmon Lake
Snowcap Claims
Walsh Creek
Big Salmon Fault
D'Abbadie Creek
Legend
Placer Gold Occurence
Faults
REGIONAL GEOLOGY
QUATERNARY
Unconsolidated
TERTIARY
Volcanic
Flow Dome Complex 1
CRETACEOUS
Intrusive
Volcanic
JURASSIC
Sedimentary
Intrusive
TRIASSIC
Sedimentary
Volcanic
Intrusive
MISSISSIPPIAN OR EARLIER
Sedimentary
Volcanic
Intrusive
Ultramafic
Metamorphic
Data modified from Gordey & Makepeace, 2001
0 5 10 15
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Regional Geology
Figure 4
Datum: NAD 83
NTS: 105L & 105E
UTM Zone: 8N
Scale: 1:500,000

In addition to separating the Teslin Suture Zone from rocks of the Stikine Terrane, the Big Salmon Fault is closely coincident with placer gold occurrences at Livingstone Creek and Walsh Creek (Bostock and Lees, 1938), and locally anomalous Au-As concentrations in stream sediments (Hulstein and Walton, 1990).

## Property Geology

The general geology of the Snowcap Property area is shown on Figure 5, and is much more complex than is shown on the previously described regional maps. Bedrock exposure is less than 1%. Accordingly, lithological distributions have been determined by a combination of geological mapping with limited exposure, regional structural interpretations, and airborne geophysics. Therefore geological mapping is incomplete and the detailed geology remains poorly understood.

Structure is dominated by the northwest-trending Big Salmon Fault and multiple associated splays. The Big Salmon Fault is a right lateral fault which first became active in the early Tertiary, and multiple associated splays. Most of the rock units are interpreted to be bounded by steeply dipping faults with main orientations coincident with the northwest-trending patterns prevalent in the Canadian Cordillera.

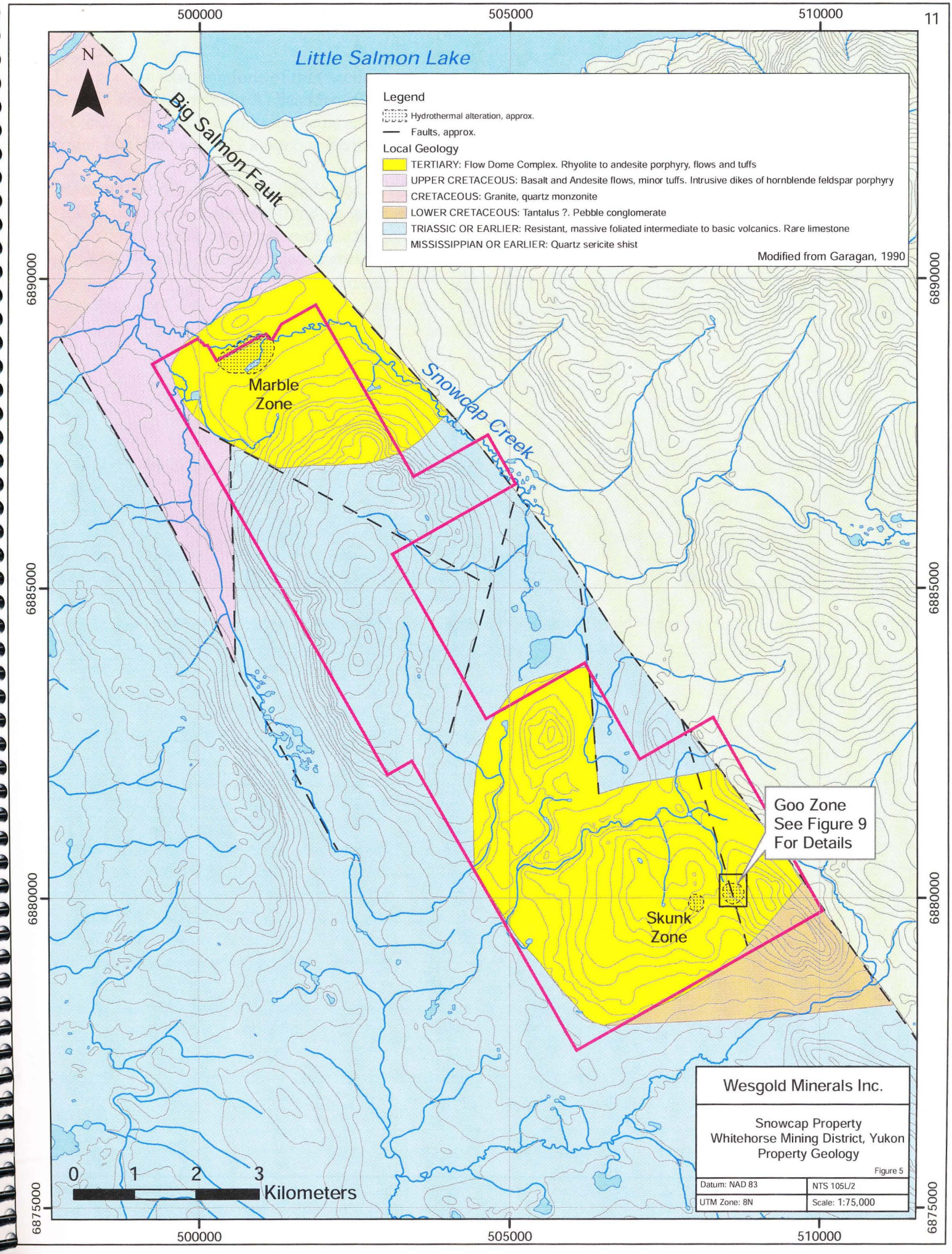
The oldest rocks known in the area of the Snowcap Property area are heterogeneous quartz-sericite schists mapped as Mississippian or earlier (Campbell, 1967 and Garagan, 1990). They are resistive weathering and are exposed only on the northeast side of the Big Salmon Fault.

The geology is more complex on the southwest side of the Big Salmon Fault, with multiple fault-bounded rock units ranging in age from Triassic to Tertiary. The most common rocks southwest of the Big Salmon Fault are andesitic to basaltic volcanic rocks and rare limestone. These rocks are resistive weathering and variably foliated.

Quartz-pebble conglomerates have been mapped at the extreme southeastern part of the Snowcap Property (Garagan, 1990). The lithology is characterized by well rounded quartz pebbles in a locally calcareous sandstone and shale matrix and therefore this unit is tentatively correlated with the Lower Cretaceous Tantalus Formation more commonly exposed further to the south (Bostock and Lees, 1938), although they may also be part of a local structural basin.

Several igneous events are recorded by rocks of Cretaceous age and younger. Their contact relationships are uncertain due to a lack of exposure, but, based on regional mapping (Campbell, 1967 and Colpron, 2006) the oldest of these units are believed to be Cretaceous granite and quartz monzonite exposed along the Little Salmon River northwest of the Snowcap Property.

Perhaps the most significant lithology present on the Snowcap Property with respect to prospectivity for gold mineralization is a unit of felsic volcanic and volcaniclastic rocks first recognized by Campbell (1967) and further mapped by Garagan (1990), Walton (1990) and Colpron, et al. (2002). Two outliers of subaerial volcanics have been mapped, one at each end of the Snowcap Property. Garagan (1990) has described them as andesite, dacite, and rhyolite subaerial volcanics, most likely representing multiple Tertiary (Colpron, et al. 2002) subaerial volcanic centres formed along extensional faults related to the Big Salmon Fault Zone. Porphyritic biotite rhyodacite tuffs and flows are the most common rocks of this unit, with flow banding, spherulitic textures, and charcoaled wood fragments in volcaniclastic sediments locally present.


500000
505000
510000
6890000
6885000
6880000
6875000
N
Little Salmon Lake
Big Salmon Fault
Snowcap Creek
Marble Zone
Skunk Zone
Goo Zone
See Figure 9
For Details
Legend
Hydrothermal alteration, approx.
Faults, approx.
Local Geology
TERTIARY: Flow Dome Complex. Rhyolite to andesite porphyry, flows and tuffs
UPPER CRETACEOUS: Basalt and Andesite flows, minor tuffs. Intrusive dikes of hornblende feldspar porphyry
CRETACEOUS: Granite, quartz monzonite
LOWER CRETACEOUS: Tantalus ?. Pebble conglomerate
TRIASSIC OR EARLIER: Resistant, massive foliated intermediate to basic volcanics. Rare limestone
MISSISSIPPIAN OR EARLIER: Quartz sericite shist
Modified from Garagan, 1990
0 1 2 3 Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Property Geology
Figure 5
Datum: NAD 83
NTS 105L/2
UTM Zone: 8N
Scale: 1:75,000

Petrographic examinations of thin sections of a sample of Tertiary rhyolite collected in 2009 at the Marble Zone (Appendix A) has identified chalcedony and hematite in flow-banded rhyolite breccia. The rhyolite contains veins and irregular patches of quartz with disseminated pyrite, which has been variably altered to hematite.

Based on the distribution of lithologies, in particular the Tertiary felsic volcanic rocks, and mapped fault structures, a northwest-trending graben has been interpreted. Such a structural feature would be the most logical explanation of the felsic volcanic and fine grained sedimentary rocks being preserved from Pleistocene glacial erosion.

## DEPOSIT TYPES AND EXPLORATION MODEL

The Snowcap Property is a structurally controlled, epithermal, gold exploration prospect. It has characteristics in common with well-studied gold deposits and mines; however, the following generalized information is not necessarily indicative of potential mineralization on the Snowcap Property that is the subject of this report.

Epithermal gold deposits, also known as hot spring gold deposits, form at low to moderate temperatures in near-surface environments. They are typified by auriferous veins, stockworks, and breccia fillings related to high angle and low angle faults, volcanic ring fractures, coarse-grained pyroclastic and volcaniclastic rocks, and hydrothermal breccias primarily in volcanic rocks.

Based on alteration and mineralogy, epithermal gold deposits are considered to comprise three main subtypes: high sulfidation (quartz-alunite), intermediate sulfidation, and low sulfidation (adularia-sericite). The different types result from fundamentally different ascending hydrothermal fluids (Sillitoe, 1993). Acidic, sulfur-rich, oxidized fluids of magmatic affinity tend to form deposits of the high sulfidation type, while pH-neutral, sulfur-poor reduced fluids dominated by metoric water produce low sulfidation deposits.

Epithermal gold deposits are found in all rock types and ages, most commonly Tertiary continental volcanic and sedimentary rocks in regions of high angle strike-slip and extensional faulting (Taylor, 2007; Berger, 1985). The most important deposits are disseminated bulk-tonnage and stockwork-type vein deposits in volcanic rocks and as replacements in impure silty carbonate-bearing sedimentary sequences. The most common environment for these deposits is in active or fossil geothermal systems related to subaerial volcanic centres including flow-dome and caldera complexes, and related radial and ring fracture systems.

Veins can be chalcedonic quartz and opaline silica which develop a few meters to hundreds of meters below surface with subaerial siliceous sinter deposits developed at the water table and explosion breccias above. Veins often develop as a result of multiple generations of hydrothermal activity related to phreatic and phreatomagmatic explosions. Deeper fluids are channeled by permeable stratigraphic units, hydrothermal breccias, and structurally prepared underlying rocks.

In terms of an epithermal depositional model, most epithermal deposits form by hydrothermal systems that vent thermal waters to the surface. Deposition from hot solutions at or very near the surface results in a set of geological and geochemical characteristics unique to this type of deposit, as opposed to precious metal deposits formed at greater depths. However, hot spring-type deposits classically transition into structurally controlled higher grade, feeder-type veins and root zones at depth that are the primary exploration target.

Some of the main characteristics of epithermal gold deposits (Berger, 1985; Taylor, 2007; Sillitoe, 1993, and many others) include:

- Strong structural features such as normal faults and strike-slip faults that have served as channelways and depositional sites for hydrothermal fluids.

- Typically hosted by Tertiary felsic to intermediate volcanic rocks.
- Deposition of siliceous sinter on the surface during a deeper mineralizing process, although the sinter may be eroded. Sinters do not generally constitute a significant precious metal resource but may be enriched in Hg, Sb, and As in mineralized systems.
- Intense silicification below the surficial sinter. This silicified zone forms a seal or capping over the hydrothermal system and is characterized in ore-bearing metalliferous deposits by multiple episodes of brecciation indicative of episodic rupturing and repeated activity of hydrothermal conduits. Rupturing of the silica seal causes a sudden decrease in pressure and a resultant boiling of hydrothermal fluids, with chemical and temperature changes accompanying the rapid boiling causing the deposition of quartz, precious metals, and other related minerals.
- Below the silica cap is the zone of acid leaching, typified by clay alteration and oxidation. Gases evolved during boiling may recondense in cooler aquifers near or at the surface, and when the gases include $H_2S$ and $CO_2$, they result in acid-sulfate solutions that can pervasively acid leach the host rocks through downward percolation. Depending on the chemistry of the mineralizing system and host rocks, minerals commonly found in the acid-leached parts of epithermal systems include quartz, K-feldspar (adularia), kaolinite, alunite, and jarosite. This is the zone where the bulk of precious metal mineralization is found in mineralized systems.
- Vertical zoning of geochemistry and alteration related to the interaction of mineralizing fluids with the paleosurface. Anomalous arsenic, antimony, thallium, and especially mercury concentrations in the upper levels of epithermal systems are a useful guide to distinguish mineralized systems from barren.

There are many world-wide examples of significant epithermal gold deposits having been discovered below favorable surface expressions including anomalous mercury, for example: McLaughlin, California; Midas, Nevada; Buckskin Mountain, Nevada; and El Penon, Chile.

Perhaps the nearest analog to the type of mineral deposit being sought on the Snowcap Property is the Grew Creek gold-silver deposit, located 30 kilometers east of Faro and 110 kilometers east of Snowcap. At Grew Creek, epithermal gold mineralization was discovered by Mr. Al Carlos in 1983 while investigating the bedrock source of local placer gold (Duke and Godwin, 1986). Subsequent work identified a resource[3] of 773,012 tonnes grading 8.9 g/t gold and 33.6 g/t silver (Christie, et al., 1992). The low sulfide, quartz-adularia, structurally controlled deposit is hosted in Eocene felsic volcanics and sediments deposited in an extensional basin and preserved in a graben along the southwestern margin of the Tintina Fault Zone (Jackson, et al, 1986).

At Grew Creek, epithermal gold and silver mineralization is hosted in chalcedonic quartz veins, stockworks and hydrothermal breccias (Duke and Godwin, 1986). Although the epithermal mineralized zone is anomalous in mercury, antimony, and arsenic, most of the surficial epithermal features have been eroded away. Non-metallic minerals associated with the deposit include quartz, chalcedony, adularia, carbonate, various clays, and fluorite (Duke and Godwin, 1986).

[3] The resource estimate at Grew Creek is historical in nature and is not compliant with NI 43-101. Accordingly, the authors are not treating the historical resource estimate as relevant or reliable.

Exploration work carried out to date at the Snowcap Property was designed to identify some or all of the characteristics at known epithermal gold deposits elsewhere using geology, geochemistry, and geophysics. Further gold exploration on the Snowcap Property will be based on exploring and using techniques appropriate for the deposit model type.

## MINERALIZATION

There is no known gold mineralization on the Snowcap Property. The earliest report of mineral exploration at Snowcap was in 1989 (Garagan, 1990), when Mr. Al Carlos investigated subaerial Tertiary volcanic rocks mapped by Campbell (1967) for precious metal potential. Work completed to date has consisted of prospecting, geochemistry, geophysics, geological mapping, and hand trenching. There has been no mechanized trenching, mechanized soil sampling, or drilling on the Snowcap Property to date.

Two areas of potential gold mineralization have been identified: Goo Zone and Marble Zone.

**Goo Zone**

The Goo Zone is located at the southeastern part of the Snowcap Property. It is underlain by subaerial Tertiary andesite, dacite, and rhyolite in fault contact with Mississippian or earlier quartz-sericite schist to the east (Garagan, 1990 and Walton, 1990). The volcanics unconformably overlie Triassic mafic volcanic rocks, and therefore the volcanics are exposed at higher elevations with the older rocks exposed in stream exposures. All bedrock units are covered by an extensive veneer of glacial till and volcanic ash. Bedrock exposure is less than 1%.

The volcanics consist of rhyolite, rhyodacite, dacite, and andesite flows, dykes, tuffs, and epiclastic rocks (Garagan, 1990). Biotite porphyries are common, and flow banded and spherulitic textures have been observed. Bedded ash tuffs and massive tuffs with charcoaled wood fragments are exposed in the western part of the zone.

Alteration is related to structure, and consists of intense quartz-sericite and clay development, with destruction of primary volcanic textures. Barite, hematite, specularite, pyrite, jasper, and chalcedony are present in the altered rocks, and their extents remain unknown due to a lack of exposure. Iron oxides precipitating in a creek 150 meters downstream (north) of the Goo zone are suggestive of pyrite mineralization at depth below the alteration zone.

Garagan (1990) reports gold values in altered rock from the Goo Zone ranging from background up to 51 ppb. Soil samples collected from this area have returned from background up to 151 ppb gold.

To the east of the alteration zone underlain by felsic volcanics, exposures of older schist are highly fractured with quartz-barite-specularite vein fillings. Intense hematitization and local silicification have been noted (Garagan, 1990). In general, the schist unit is more resistant to weathering than the volcanic unit and forms topographic highs. This relationship may be suggestive of a caldera setting (Garagan, 1990).

**Marble Zone**

The Marble Zone is located at the northern part of the Snowcap Property, about 14 km northwest of the Goo Zone, and has less than 1% outcrop. At least two separate areas of quartz-sericite alteration in rhyolite have been identified (Walton, 1990). Phreatic gas breccia dikes have been noted. Altered vuggy rhyolite boulders and outcrops containing intense quartz-pyrite (up to 10% pyrite and rare marcasite), chalcedony veinlets, and kaolinite have been located, with assays from background up to 79 ppb gold (Garagan, 1990). Soil samples ranging from background to 55 ppb gold have confirmed anomalous gold concentrations in bedrock.

# EXPLORATION

## Geological Mapping

The presence of Tertiary volcanic rocks in the area of the Snowcap Property was first identified by Campbell (1967) during regional geological mapping. In 1989 and 1990 Comaplex Minerals completed detailed geological mapping as part of a mineral exploration program (Garagan, 1990 and Walton, 1990). Further reconnaissance mapping was completed in 2009 by Wesgold, all of which confirmed the presence of felsic volcanic rocks and identified several new exposures that were not mapped during the previous regional work.

The Snowcap Property is covered by an all but complete veneer of glacial till and 1147-1887 year old volcanic ash sourced near the common Yukon-Alaska-British Columbia border (Clague, et al., 1995). As a result of the till and ash cover, and poor outcrop exposure, geological mapping is incomplete and the geology of the area remains poorly understood.

## Geochemical Sampling

Comaplex Minerals collected 173 soil, 23 stream sediment, and 70 rock samples in 1989 and 1990 (Garagan, 1990 and Walton, 1990). Results identified anomalous concentrations of gold, mercury, and several other elements at the Goo and Marble Zones. Soil, stream sediment, and rock samples were collected in areas where felsic volcanic outcrops suggested potential for gold mineralization (Garagan, 1990 and Walton, 1990), as well as on a reconnaissance basis in the Property area. Grid-type soil sampling on the Snowcap Property was restricted to areas of known alteration at the Goo and Marble Zones.

In 2009, Wesgold Minerals collected a total of 157 soil samples[4] to confirm high mercury values in soil reported from the Goo Zone (Garagan, 1990) and the Marble Zone (Walton, 1990). A total of five northeast-southwest sample lines were designed to cross the known zones of alteration at the Goo and Marble Zones. The samples were collected with a hand auger at depths ranging from 10 to 90 cm below surface Sample spacings averaged 50 meters, and were focused on previously identified zones of bedrock alteration at the Goo and Marble prospect areas to confirm and

[4] Soil samples collected by Wesgold in 2009 were completed prior to recording of the 198 Snow, Cap, and Trend claims. Accordingly, the value of this work does not qualify for assessment credit.

enhance those anomalies. Sample collection was hampered by an extensive layer of ash and locally shallow permafrost.

All of the soil samples collected in 2009 were shipped to Acme Analytical Labs in Vancouver, BC for analyses. The samples were dried and sieved to -230 mesh (Tyler), with 15 gram pulps being analyzed using a standard multi-element ICP suite (including gold, silver, mercury and gallium), following hot aqua regia digestion (Acme analytical code 1DX15). While the potential exists for incomplete solution, this is not considered material at this early stage of exploration. A statistical analysis of selected elements considered useful for exploration of the proposed target deposit model is shown in Table 3.

**Table 3.** Statistical Analysis of 2009 soil samples.

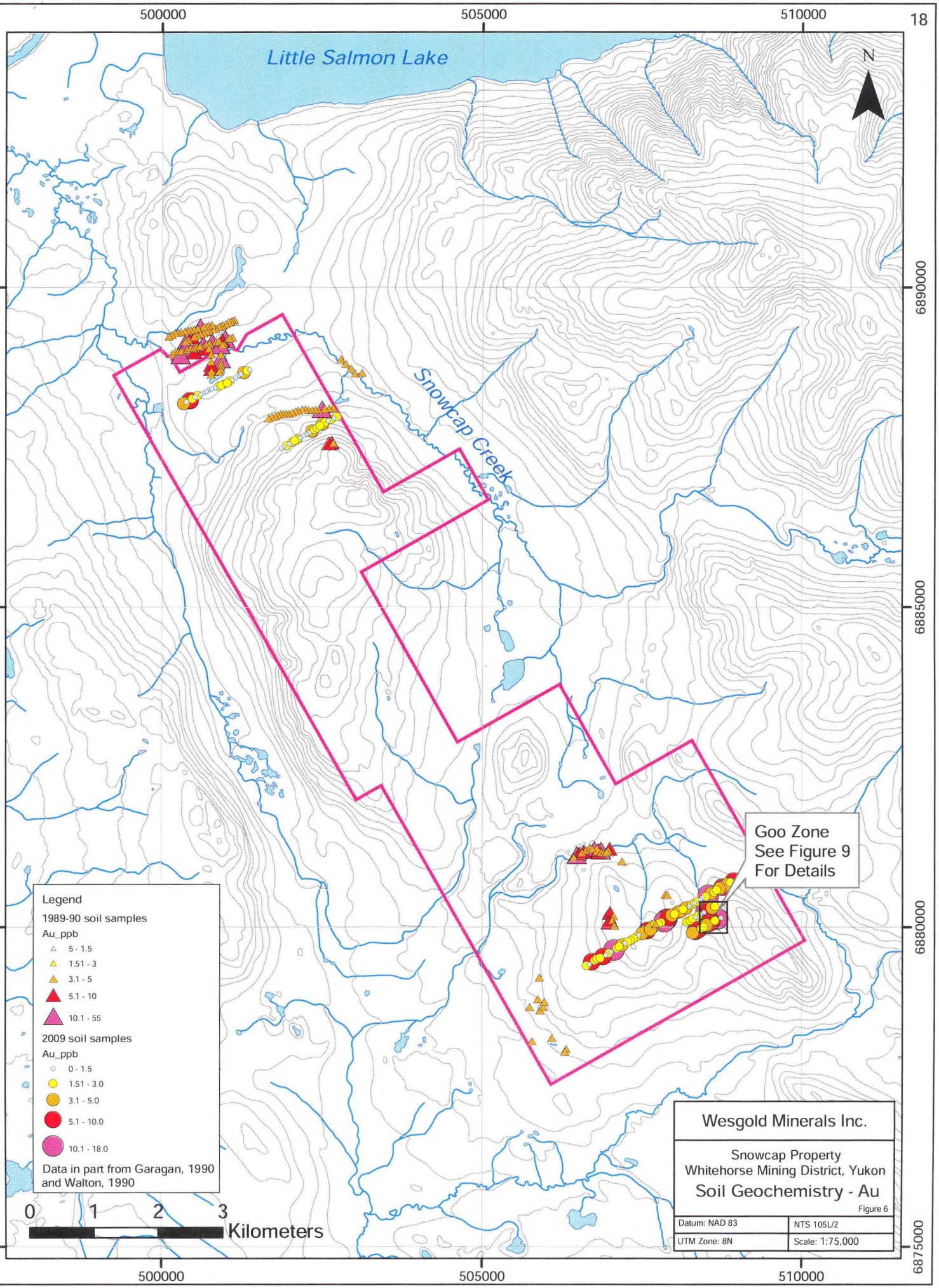
| Parameter | Au* ppb | Ag* ppm | Cu ppm | Pb ppm | Zn ppm | Sb ppm | As ppm | Bi ppm | Tl ppm | W* ppm | Hg ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Number (n) | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 |
| Maximum | 18 | 0.2 | 53 | 126 | 182 | 7 | 63.3 | 5.1 | 4.6 | 4.2 | 15.38 |
| Minimum | 0.5 | 0.1 | 3.4 | 1 | 11 | 0.1 | 1.1 | 0.1 | 0.1 | 0.1 | 0.01 |
| Standard Deviation | 3.1 | 0.02 | 9.1 | 10.2 | 18.0 | 1.1 | 6.1 | 0.83 | 0.75 | 0.67 | 1.78 |
| Mean | 3.0 | 0.11 | 22.9 | 10.8 | 54.3 | 0.8 | 10.4 | 0.25 | 0.14 | 0.28 | 0.39 |

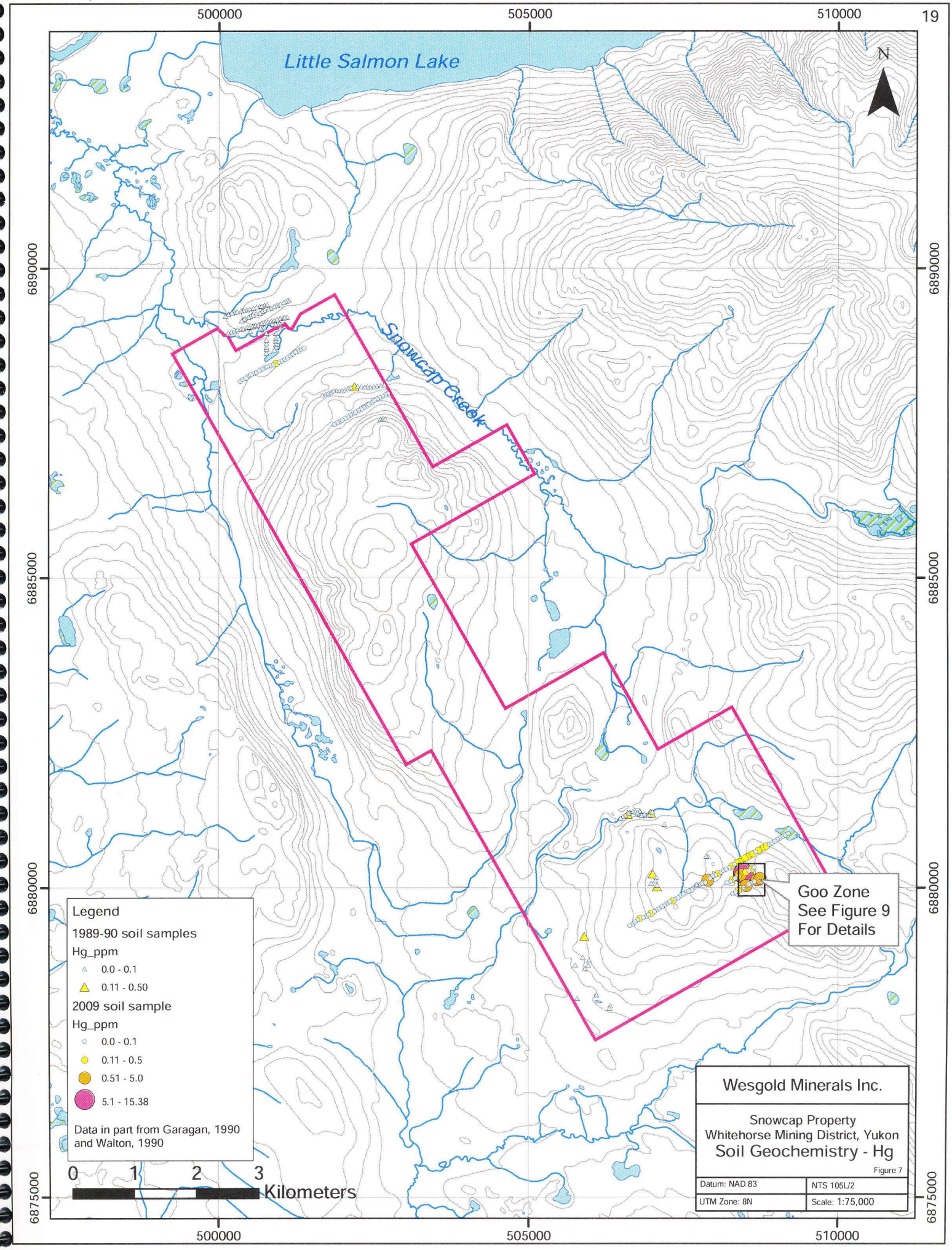
* potential for incomplete solution

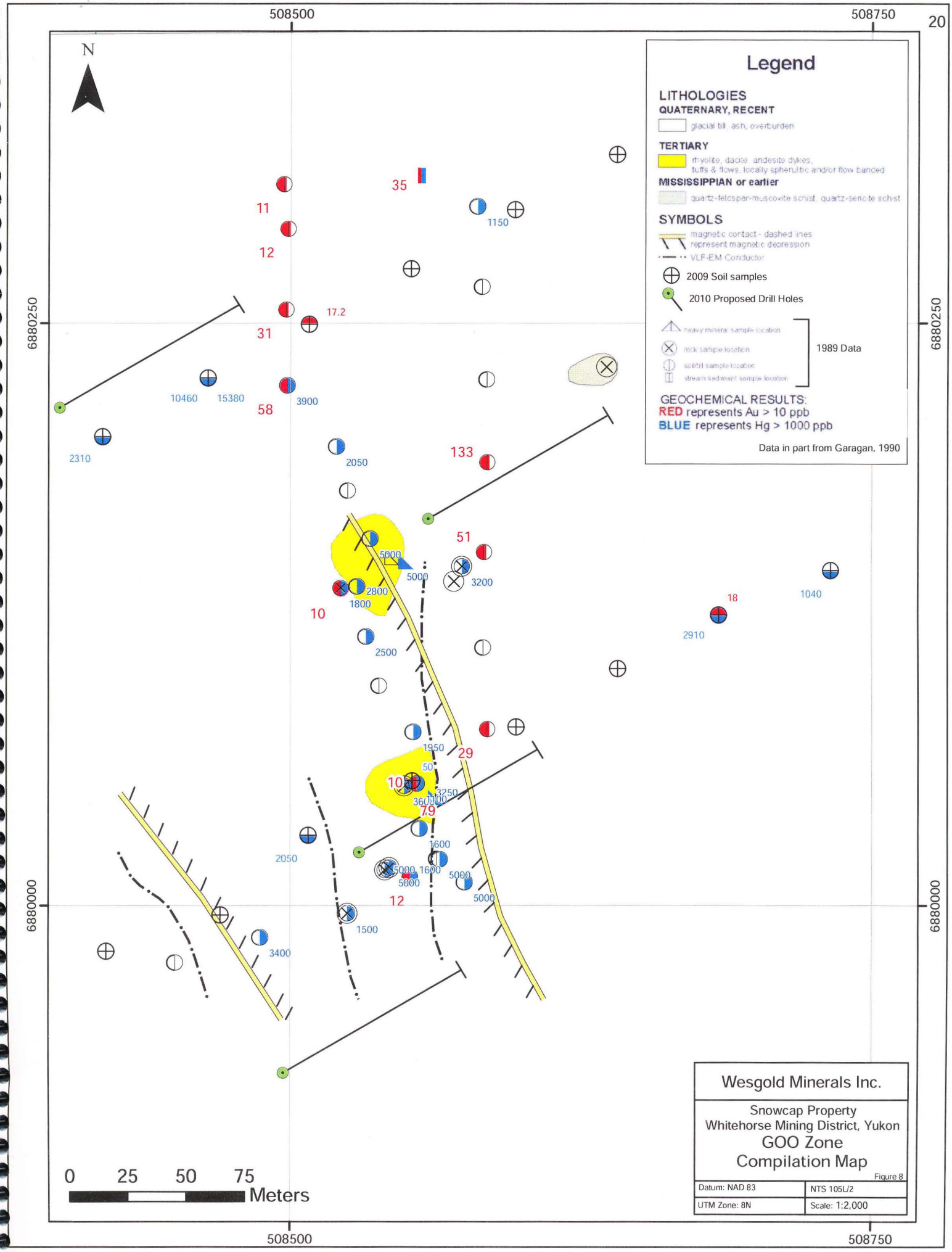
A plot for gold results is shown on Figure 6. Values range from less than 0.5 to 18 ppb. While gold values are generally low, samples distinctly above background are located mostly in the areas of known hydrothermal alteration at the Goo and Marble Zones.

Mercury values range from 0.01 to 15.38 ppm (15,380 ppb). Four of the 157 samples exceed 1 ppm (Figure 7), and all four of these samples are closely coincident with known hydrothermally altered rhyolite at the Goo Zone (Figure 8). Mercury values in soil at the Marble Zone range up to 0.11 ppm, with low order anomalous values also correlating with known bedrock alteration.

Other elements including copper, lead, antimony, arsenic, and bismuth are variably anomalous in areas of known alteration, especially the Goo Zone.


Little Salmon Lake
Snowcap Creek
N
500000
505000
510000
6890000
6885000
6880000
6875000
Goo Zone
See Figure 9
For Details
Legend
1989-90 soil samples
Au_ppb
5 - 1.5
1.51 - 3
3.1 - 5
5.1 - 10
10.1 - 55
2009 soil samples
Au_ppb
0 - 1.5
1.51 - 3.0
3.1 - 5.0
5.1 - 10.0
10.1 - 18.0
Data in part from Garagan, 1990 and Walton, 1990
0 1 2 3
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Soil Geochemistry - Au
Figure 6
Datum: NAD 83
NTS 105L/2
UTM Zone: 8N
Scale: 1:75,000


500000
505000
510000
6890000
6885000
6880000
6875000
Little Salmon Lake
Snowcap Creek
N
Goo Zone
See Figure 9
For Details
Legend
1989-90 soil samples
Hg_ppm
0.0 - 0.1
0.11 - 0.50
2009 soil sample
Hg_ppm
0.0 - 0.1
0.11 - 0.5
0.51 - 5.0
5.1 - 15.38
Data in part from Garagan, 1990 and Walton, 1990
0 1 2 3
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Soil Geochemistry - Hg
Figure 7
Datum: NAD 83
NTS 105L/2
UTM Zone: 8N
Scale: 1:75,000


508500
508750
6880250
6880000
N
Legend
LITHOLOGIES
QUATERNARY, RECENT
glacial till, ash, overburden
TERTIARY
rhyolite, dacite, andesite dykes, tuffs & flows, locally spherulitic and/or flow banded
MISSISSIPPIAN or earlier
quartz-feldspar-muscovite schist, quartz-sericite schist
SYMBOLS
magnetic contact - dashed lines represent magnetic depression
VLF-EM Conductor
2009 Soil samples
2010 Proposed Drill Holes
heavy mineral sample location
rock sample location
soil/till sample location
stream sediment sample location
1989 Data
GEOCHEMICAL RESULTS:
RED represents Au > 10 ppb
BLUE represents Hg > 1000 ppb
Data in part from Garagan, 1990
35
11
12
1150
17.2
31
10460
15380
58
3900
2310
2050
133
51
5000
5000
3200
2800
1800
10
2500
1040
18
2910
1950
29
50
10
3250
3600
7.9
1600
2050
5000
1600
5000
5000
12
1500
3400
0
25
50
75
Meters
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
GOO Zone
Compilation Map
Figure 8
Datum: NAD 83
NTS 105L/2
UTM Zone: 8N
Scale: 1:2,000

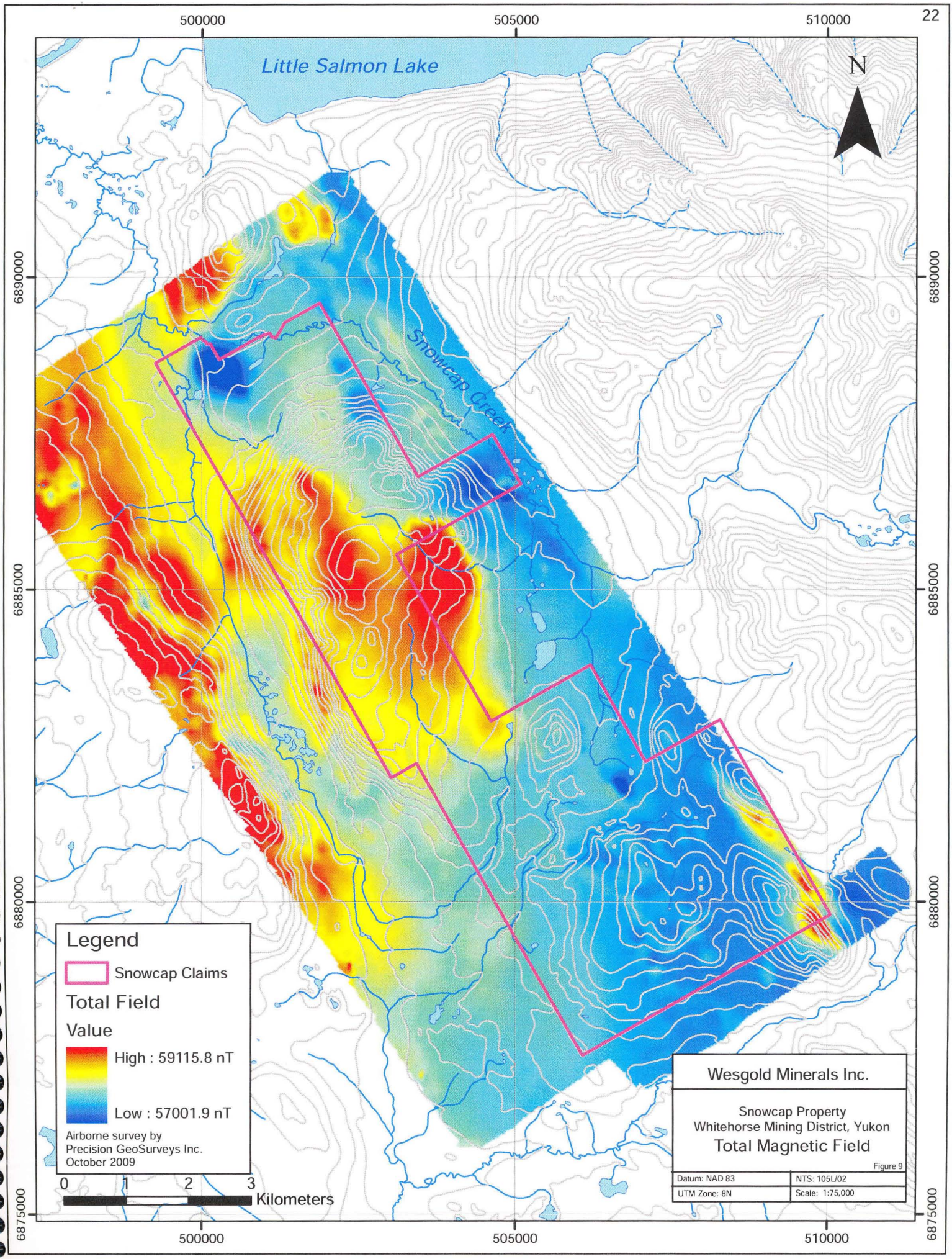
## Geophysical Surveying

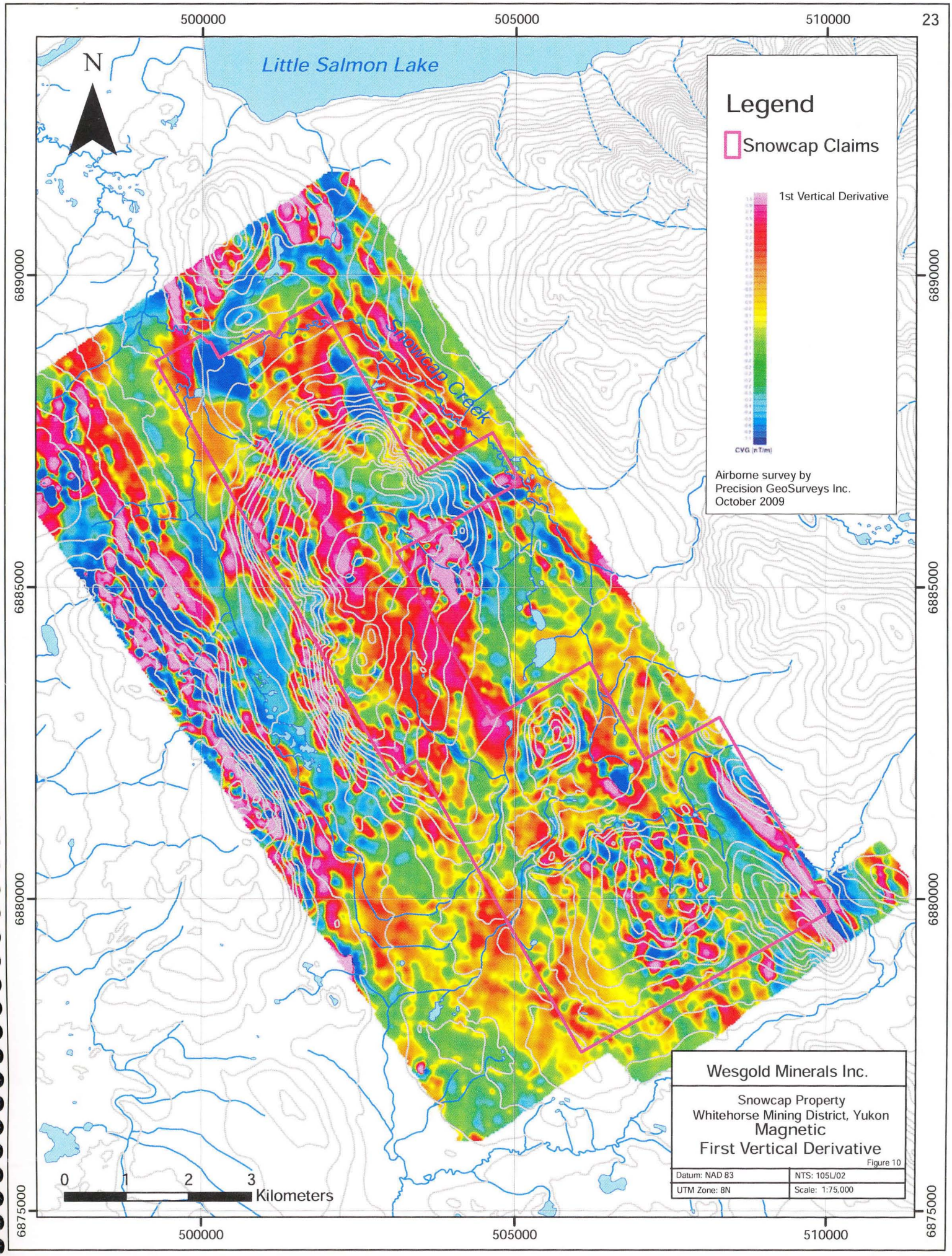
In 1989, a total of 4.8 line kilometers of magnetic and very low frequency (VLF) electromagnetic surveying were completed (Garagan, 1990) at the Goo Zone. This work identified three N-S VLF-EM conductors and a N-S magnetic low closely coincident with the Goo Zone alteration.

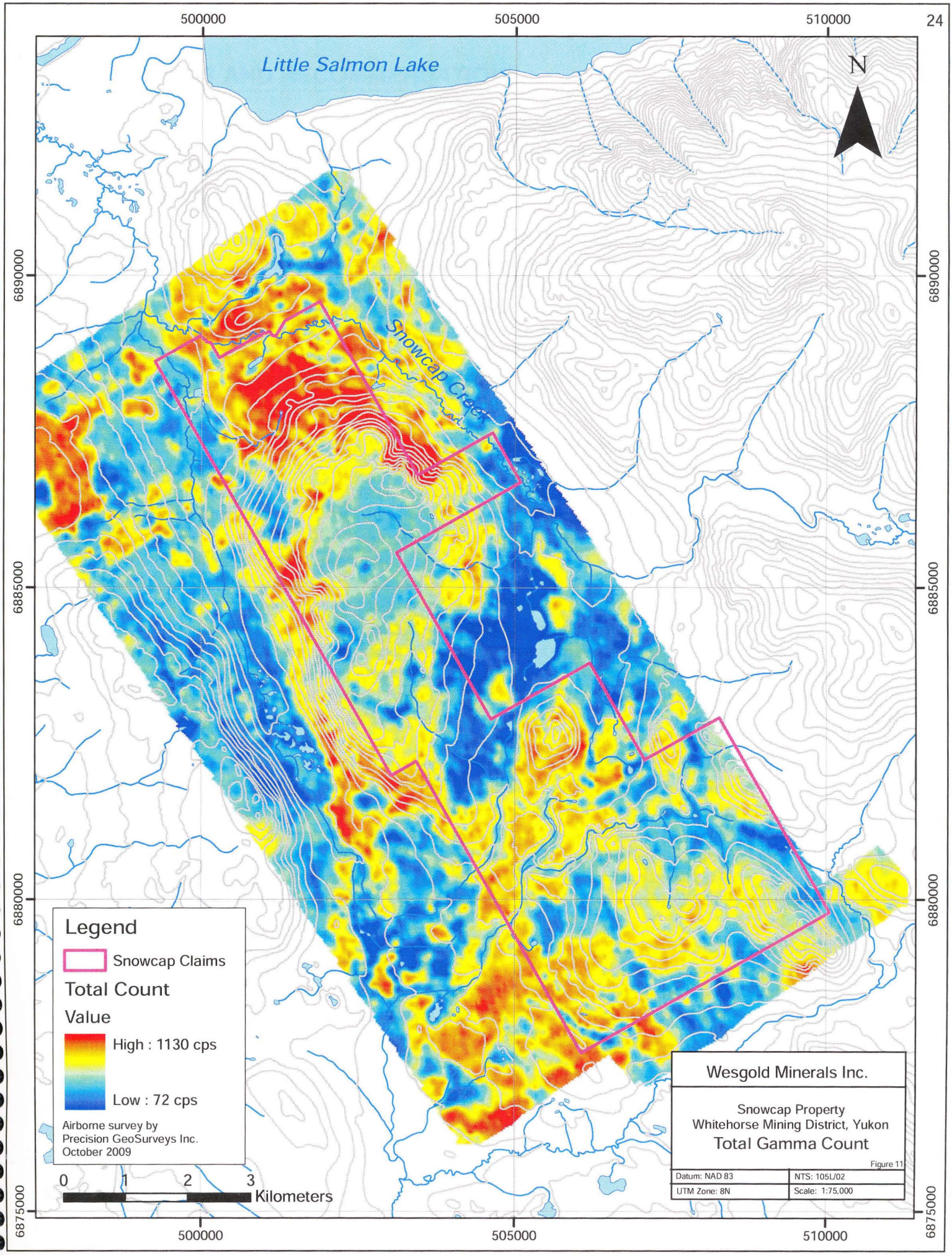
In 2009, Wesgold Minerals contracted Precision GeoSurveys Inc. to fly a multi-sensor airborne geophysical survey over the entire Property area (Brown, 2009; Appendix B). A total of 757 line kilometers of combined magnetic and radiometric measurements at line spacings of 150 meters normal to the regional structure was completed. The area flown covered an area of 7 x 15 km (105 $km^2$).

Total field airborne magnetic data (Figure 9) show a magnetic relief of over 2000 nT over various bedrock lithologies and structures. Of particular interest are distinctive magnetic lows closely coincident with mapped felsic volcanic units; therefore these magnetic lows may represent deep-seated volcanic necks or feeder structures. Also apparent are magnetic lineaments (Figure 10) which likely represent fault structures in bedrock, especially a series of high gradient lows and highs closely coincident with the mapped trend of the Big Salmon Fault.

Radiometric data (Figure 11) show gamma ray measurements from natural uranium, thorium, and potassium concentrations in near-surface soils and rocks. As expected, the data generally show radiometric lows coinciding with thick alluvial cover at low elevations, and higher gamma counts in areas of thin cover at higher elevations. However, in the Marble Zone area, gamma counts are inverse of topography. As with the magnetic data, numerous linear features may be suggestive of a variety of lithological changes and structures.


500000
505000
510000
6890000
6885000
6880000
6875000
Little Salmon Lake
Snowcap Creek
N
Legend
Snowcap Claims
Total Field
Value
High : 59115.8 nT
Low : 57001.9 nT
Airborne survey by
Precision GeoSurveys Inc.
October 2009
0 1 2 3 Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Total Magnetic Field
Figure 9
Datum: NAD 83
NTS: 105L/02
UTM Zone: 8N
Scale: 1:75,000


500000
505000
510000
N
Little Salmon Lake
Snowcap Creek
6890000
6885000
6880000
6875000
Legend
Snowcap Claims
1st Vertical Derivative
CVG (nT/m)
Airborne survey by
Precision GeoSurveys Inc.
October 2009
0
1
2
3
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Magnetic
First Vertical Derivative
Figure 10
Datum: NAD 83
NTS: 105L/02
UTM Zone: 8N
Scale: 1:75,000


500000
505000
510000
Little Salmon Lake
N
Snowcap Creek
6890000
6885000
6880000
6875000
Legend
Snowcap Claims
Total Count
Value
High : 1130 cps
Low : 72 cps
Airborne survey by
Precision GeoSurveys Inc.
October 2009
0 1 2 3
Kilometers
Wesgold Minerals Inc.
Snowcap Property
Whitehorse Mining District, Yukon
Total Gamma Count
Figure 11
Datum: NAD 83
NTS: 105L/02
UTM Zone: 8N
Scale: 1:75,000

# CONCLUSIONS AND RECOMMENDATIONS

The Snowcap Property represents early stage epithermal-style gold exploration prospects without known bedrock mineralization. Although it is always difficult to quantify geological merits, existing data on geology, mineralization, geochemistry and geophysics suggest that the Snowcap Property has significant exploration potential.

Very little exploration work has been completed to date on the Snowcap Property. Current and historical data consists primarily of surficial rock, soil, and stream sediment geochemistry, geophysical surveying, and identification of the general distribution of lithological units in an extensive overburden-covered area with very little bedrock exposure. The geology of the Property is dominated by variably altered subaerial Tertiary felsic volcanic and volcaniclastic rocks unconformably overlying older crystalline and mafic volcanic rocks. These Tertiary rocks may be preserved in an extensional fault basin analogous to the Tintina fault basin which hosts the Grew Creek gold deposit.

At Snowcap, the combination of felsic subaerial volcanics coincident with regional faults, mapped quartz-sericite alteration, and anomalous Au-Hg geochemistry provides a highly prospective environment for the formation of epithermal-style gold deposits. The lack of known bedrock mineralization may be due to a combination of minimal exploration activity, vertical zoning in an epithermal environment, and an almost complete lack of outcrop, and is therefore not considered to be a deterrent in assessing mineral potential.

Prospectivity of the Snowcap Property has been established by a combination of favorable geology, anomalous gold and mercury values in rock and soil from multiple geochemical surveys, and airborne geophysics. The most attractive exploration target on the Property is the Goo Zone gold prospect. It is defined by mapped quartz-sericite alteration in felsic subaerial volcanic rocks carrying anomalous concentrations of gold (up to 51 ppb Au) and mercury (>5 ppm Hg) overlain by soil containing highly anomalous mercury (up to 15 ppm Hg) and gold (up to 151 ppb Au) values. The distribution of anomalous mercury concentrations in rock and especially soil are closely coincident with known zones of hydrothermal alteration in rhyolite, and are therefore interpreted to be surficial leakage halos of mercury enrichments associated with epithermal mineralization in underlying, deep-seated, bedrock structures including steeply-dipping faults. Accordingly, areas of anomalous mercury concentrations are considered to be highly prospective for sub-surface gold mineralization. All of the soil geochemical work has been hampered by locally frozen glacial drift almost invariably containing volcanic ash, so that areas lacking anomalous geochemical values should not necessarily be excluded from future exploration work.

Mercury geochemistry appears to be a very powerful exploration tool in this difficult geochemical environment. Anomalous mercury values in rock and soil are reproducible and are variably associated with elevated concentrations of gold, silver, thallium, arsenic, and antimony. They have a close spatial association with bedrock fault structures and therefore are almost certainly the result of fossil hydrothermal activity related to fault zones within or below the Tertiary subaerial volcanics. The size and character of the geochemical anomaly combined with the quartz-sericite alteration at the Goo Zone is not unlike the surficial features of several significant gold deposits elsewhere which were discovered as a result of drilling below surficial mercury occurrences and anomalies.

Results of exploration to date on the Snowcap Property have met the objectives of indirectly suggesting the presence of potential epithermal-style gold mineralization and are therefore sufficient to justify continued exploration. Although there are many geological features that could combine to produce the identified anomalies without economic significance, one of the possible sources is one or more structurally controlled epithermal gold deposits within, or peripheral to, the Tertiary volcanic centers on the Snowcap Property. All future exploration will be speculative and involve risk, and therefore it can not be stated with certainty that additional exploration will be successful in advancing the Property.

The following work is recommended:

1. Acquire and integrate all available data into a digital GIS database, and maintain the database as exploration continues. Quality control and quality assurance measures to ensure data reliability appropriate to the level of exploration must be implemented and maintained.

2. Carry out additional soil geochemistry on a systematic grid base to identify areas carrying anomalous concentrations in gold and pathfinder elements, especially mercury. Collecting deep soil samples below the volcanic ash and permafrost horizons by mechanized methods should be considered, but accessibility and costs may be a factor. Multi-element geochemical analyses must be made.

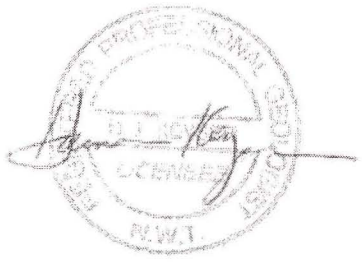
3. Carry out detailed geological mapping at a scale of 1:2000 or better in prospective areas. Special attention must be paid to alteration and structure.

4. Investigate and map the physical properties of subsurface rocks with geophysics to identify deep-seated structures and alteration zones favorable for hosting gold mineralization. Electrical methods such as electromagnetics (EM), controlled source audio magnetotellurics (CSAMT), and induced polarization (IP) need to be considered.

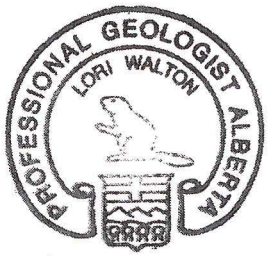
5. Select the best exploration targets by compiling and reviewing all available geological, geophysical, and geochemical data, and test for the presence of sub-surface epithermal-style precious metal mineralization with a program of drilling.

6. Acquire additional ground if necessary.

Respectfully submitted.



Harmen J. Keyser, P.Geol.




Lori Walton

January 15, 2010

Lori A. Walton, P.Geol.

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## STATEMENT OF QUALIFICATIONS – HJK

I, Harmen J. Keyser, hereby certify that:

1. I am a consulting geologist with office address #520-355 Burrard Street, Vancouver, British Columbia V6C 2G8.

2. I am an officer, director, and shareholder of Wesgold Minerals Inc., and a shareholder of Radius Gold Inc. Therefore, I am not independent of Wesgold Minerals nor the Snowcap property. This report is intended to satisfy assessment requirements, and my not be used in any circumstance that may require an independent report under securities regulations.

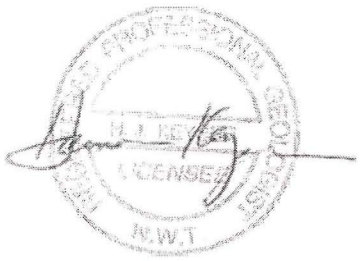
3. I am a graduate of Saint Mary's University, Halifax, with a B.Sc. in geology (1981).

4. I have been employed as a geologist on a full-time and part-time basis continuously since 1978.

5. I am a Licensee of the Northwest Territories Association of Professional Engineers, Geologists, and Geophysicists (L1034).

6. I am a co-author of this report on the Snowcap Property, which is based on my personal examination of the property on October 29, 2009 and on data from referenced sources.

7. This report is intended to satisfy assessment requirements, however, I consent to the use of this report by Wesgold Minerals Inc. for any purpose deemed necessary, including public disclosure, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.




January 15, 2010

Harmen J. Keyser, P.Geol.

## CERTIFICATE OF QUALIFICATIONS - LAW

I, Lori A. Walton, hereby certify that:

1. I am an independent consulting geologist with office address #220, 17010 – 103rd Avenue, Edmonton, Alberta, Canada T5K 1S7.

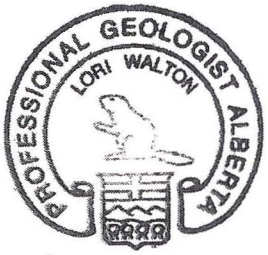
2. I am a graduate of University of Alberta, Edmonton, with a B.Sc. in Geology (1982) and a M.Sc. in Economic Geology (1987). I am also a graduate of the Gemological Institute of America (GIA) and hold a Graduate Gemologist (G.G.) diploma (1983).

3. I have been employed as a geologist on a full-time and part-time basis continuously since 1982.

4. I am a member of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (M8 2840).

5. I am a co-author of this report on the Snowcap Property, which is based on my personal examination of the Property at various times in 1989 and on October 29, 2009, and on data from referenced sources.

6. This report is intended to satisfy assessment requirements, however, I consent to the use of this report by Wesgold Minerals Inc. for any purpose deemed necessary, including public disclosure, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.




Lori Walton

January 15, 2010

Lori A. Walton, P.Geol.

## STATEMENT OF COSTS

The following expenditures were incurred on the Snow, Cap, and Trend claims described in this report in the 2009-2010 assessment year to qualify for assessment credits:

| | |
|---|---|
| Soil geochemistry*: | 0.00 |
| Geological mapping*: | 0.00 |
| Airborne geophysical survey (Precision GeoSurveys Invoice 916): | $ 56,032.00 |
| Analytical costs (Acme Invoice VANI036710): | 3,383.65 |
| Petrographic report (Vancouver Petrographics Invoice 090765): | 247.80 |
| **Total 2009 assessment valuation:** | **$ 59,663.45** |

* Geological mapping and soil sample collection were completed prior to claim recording; therefore the cost of this work does not apply to assessment.

# APPENDIX A

*Petrographic Report*

Sample from Marble Zone

VANPETRO
VANCOUVER PETROGRAPHICS LTD

Report 090765 for:
**Lori Walton,**
**Tigerstar Geoscience,**
**#220, 17010 – 103rd Street,**
**Edmonton, AB T5S 1K7**

**November 2009**

**Sample: RLW0901**

**Summary:**

**Sample RLW0901** is of rhyolite breccia that contains fragments up to 2 cm across of porphyritic flow-banded rhyolite, smaller fragments of porphyritic and non-porphyritic rhyolite and of phenocrysts of K-feldspar, and one fragment of vein quartz in a groundmass dominated by chalcedony with patches of coarser grained quartz and disseminated patches of pyrite (altered slightly to completely to hematite).

**Photographic Notes:**

The scanned section shows the gross textural features of the sections; these features are seen much better on the digital image than on the printed image. Photo numbers are shown in the lower left corner of the photographs. The letter in the lower right-hand corner indicates the lighting conditions: P = plane light, X = plane light in crossed nicols; R = reflected light, RP = reflected light and plane incident light; ~RX = reflected and incident light in nearly crossed nicols. Locations of photographs are shown on the scanned section. Descriptions of the photographs are at the end of the report.

**John G. Payne, Ph.D., P.Geol.**
**Tel: (604)-597-1080**
**Fax: (604)-597-1080 (call first)**
**email: jgpayne@telus.net**

**Sample RLW0901** **Rhyolite Breccia**
**Matrix : Chalcedony-Quartz-Pyrite/Hematite**

The sample contains fragments up to 2 cm across of porphyritic flow-banded rhyolite, smaller fragments of porphyritic and non-porphyritic rhyolite and of phenocrysts of K-feldspar, and one fragment of vein quartz in a groundmass dominated by chalcedony with patches of coarser grained quartz and disseminated patches of pyrite (altered slightly to completely to hematite).

| mineral | percentage | main grain size range (mm) |
|---|---|---|
| **fragments** | | |
| **porphyritic rhyolite** | | |
| **phenocrysts** | | |
| K-feldspar | 3- 4% | 0.7-1.2 |
| **groundmass** | | |
| K-feldspar | 35-40 | 0.03-0.05 |
| quartz | 1- 2 | 0.02-0.05 |
| hematite/pyrite | 1- 2 | 0.005-0.05 (he), 0.03-0.2 (py) |
| **other fragments** | | |
| vein quartz | 0.3 | 0.1-0.5 |
| **breccia matrix** | | |
| chalcedony | 45-50 | 0.005-0.01 |
| quartz | 3- 4 | 0.02-0.03 |
| pyrite/hematite | 2- 3 | 0.05-0.15 (py); cryptocrystalline-0.01 (he) |

A few large fragments are of slightly to strongly flow-banded rhyolite. They contain scattered euhedral prismatic K-feldspar phenocrysts in a banded groundmass dominated by K-feldspar. Bands alternate between more abundant bands of K-feldspar up to 0.5 mm thick and less abundant bands of K-feldspar-quartz up to 0.2 mm thick. One fragment contains equant to slightly elongate patches up to 0.5 mm wide of K-feldspar-quartz intergrowths intergrown with more abundant patches of K-feldspar.

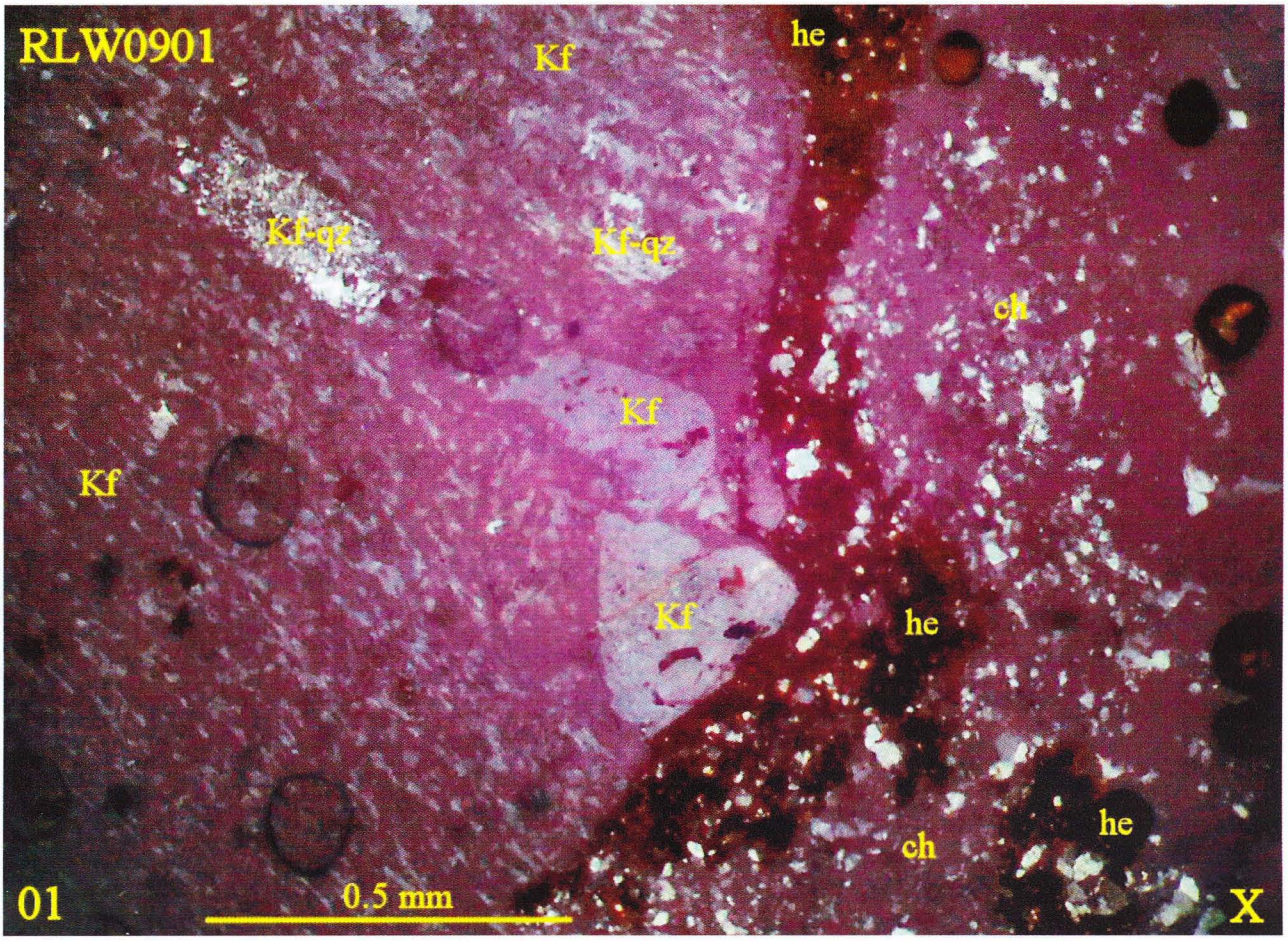
Smaller fragments are mainly of K-feldspar, with a texture similar to hat of the K-feldspar-rich patches in the banded rhyolite.

Some fragments of K-feldspar phenocrysts (0.5-0.7 mm) contain 5-10% disseminated patches of hematite and a few contain up to 15% hematite.

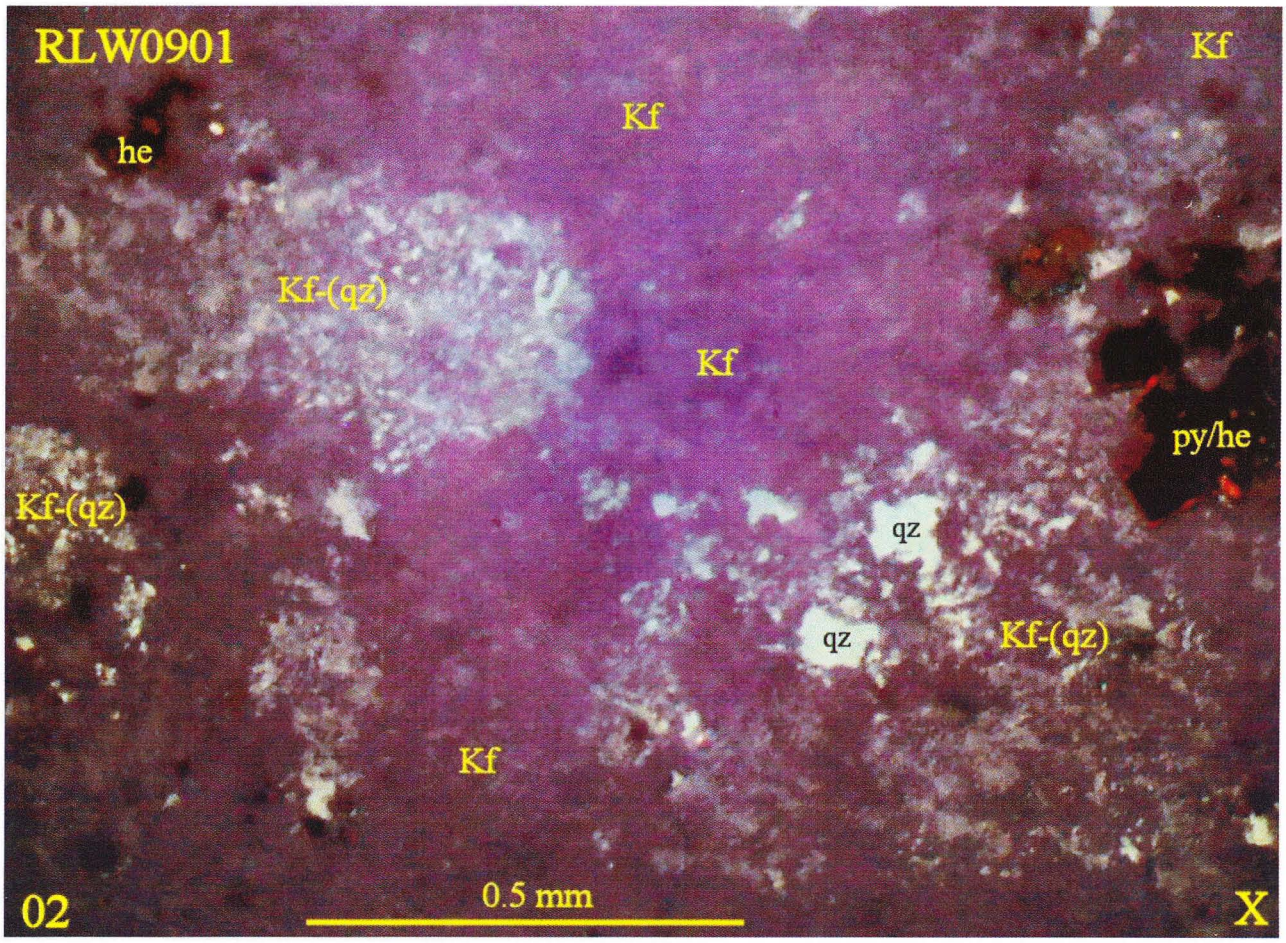
One subrounded fragment 1.1 mm across is of vein quartz.

The matrix of the breccia is dominated by chalcedony (0.005-0.02 mm) with scattered patches up to 1.5 mm in size of slightly coarser grained quartz (0.02-0.05 mm) irregular patches of pyrite (altered slightly to completely to hematite). Quartz forms disseminated patches up to 1.5 mm in size of slightly coarser equant grains; these patches probably represent late-stage crystallization.

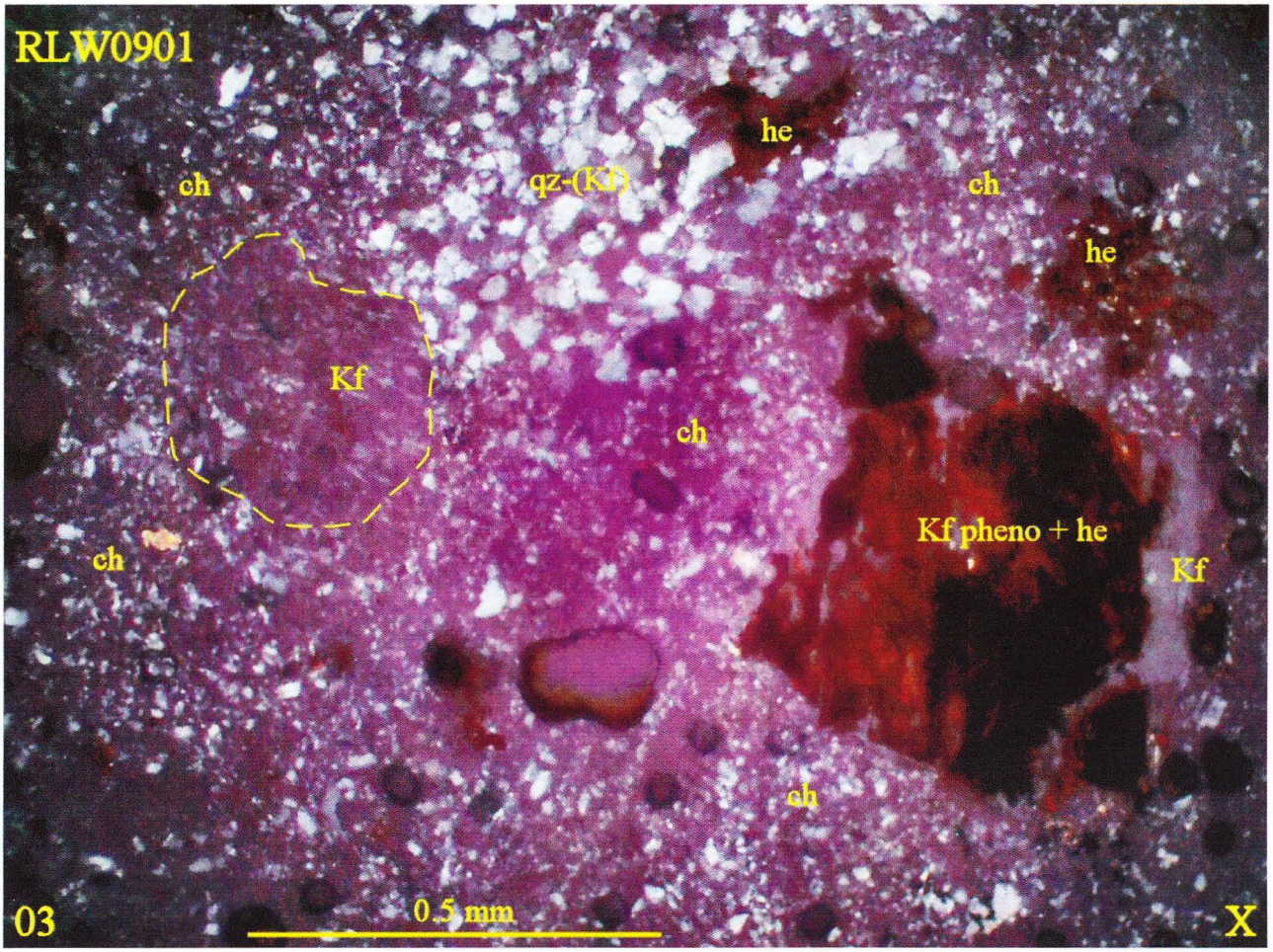
Pyrite (altered slightly to completely to hematite) forms disseminated anhedral to euhedral grains and clusters up to 0.5 mm across of grains.




01 RLW0901 to the left: fragment of banded rhyolite with small phenocrysts of K-feldspar in a groundmass containing major bands dominated by K-feldspar and minor bands dominated by slightly coarser grained K-feldspar and quartz; to the right: chalcedony with irregular patches of hematite, including a major zone bordering the fragment.




02 RLW0902 fragment of rhyolite consisting of patches of K-feldspar-quartz intergrowths enclosed in zones of K-feldspar, with disseminated patches of pyrite )(altered slightly to completely to hematite).




03 RLW0903 fragment of K-feldspar phenocryst (altered strongly to hematite) and a fragment of K-feldspar groundmass in a matrix of chalcedony with patches of hematite; patch of coarser grained quartz with minor hematite.

# APPENDIX B

*Airborne Geophysical Report*

Precision
GeoSurveys Inc.

# Airborne Geophysical Survey Report
# Snowcap Property

Prepared for: Wesgold Minerals Inc.
December 1, 2009



Chris Brown, B.Sc., GIT
Precision GeoSurveys Inc.
520-355 Burrard Street, Vancouver, Canada V6C 2G8
www.precisiongeosurveys.com

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## 1.0 Introduction:

This logistical report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown in the Snowcap Property. The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Wesgold Minerals Inc. The geophysical survey, carried out between November 6 and November 10, 2009, saw the acquisition of gamma ray spectrometer data and magnetic data.

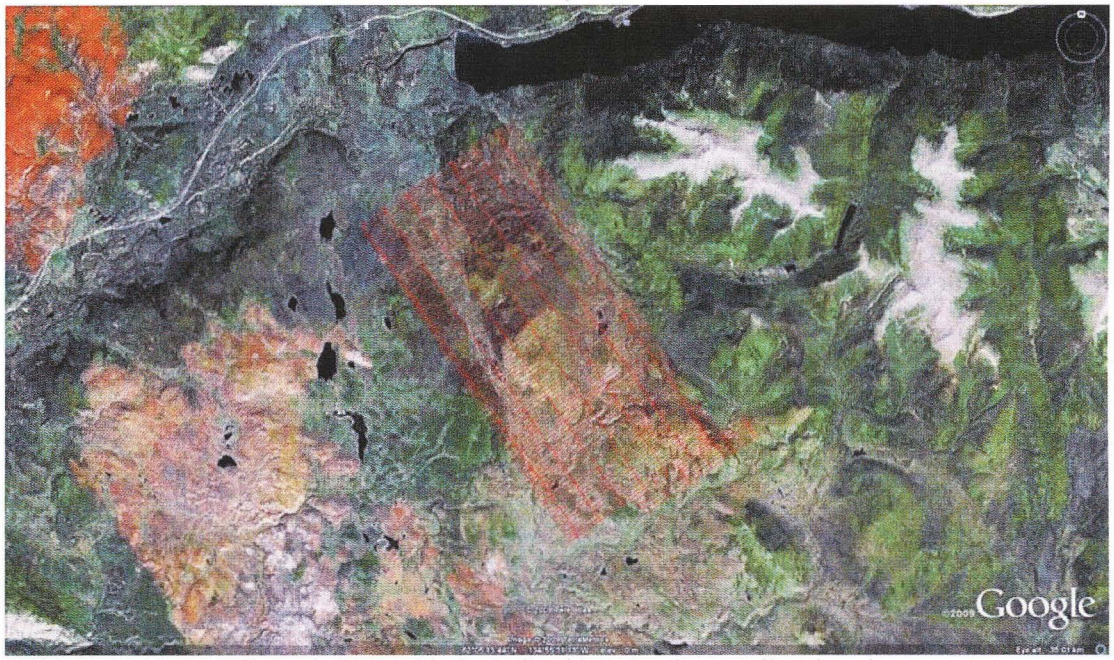



Figure 1: Survey blocks outlined in red and survey lines in red.

The Snowcap property lies south of Little Salmon River, YT (Figure 1) and approximately 70 km east of Carmacks, YT (Figure 2). The survey area itself is approximately 15 km by 7 km. A total of 757.6 line kilometers of radiometric and magnetic data were flown for this survey, this total includes tie lines and survey lines. The survey lines were flown at 100 meter spacing's at a 55°/235° heading; the tie lines were flown at 1 km spacings at a heading of 145°/325°.




Figure 2: Snowcap survey area location relative to Carmacks, YT.

## 2.0 Geophysical Data:

Geophysical data are collected in a variety of ways and are used to aid in the exploration and determination of geology, mineral deposits, oil and gas deposits, contaminated land sites and UXO detection.

For the purposes of this survey, airborne gamma ray spectrometer and magnetic data were collected to serve in the exploration of the Snowcap property where the exploration target is structurally controlled epithermal mercury-gold mineralization.

### 2.1 Magnetic Data:

Magnetic surveying is probably the most common airborne survey type to be conducted for both mineral and hydrocarbon exploration. The type of survey specifications, instrumentation, and interpretation procedures, depend on the objectives of the survey. Typically magnetic surveys are performed for:

1. Geological Mapping to aid in mapping lithology, structure and alteration in both hard rock environments and for mapping basement lithology, structure and alteration in sedimentary basins or for regional tectonic studies.
2. Depth to Basement mapping for exploration in sedimentary basins or mineralization associated with the basement surface.

## 2.2 Radiometric Data:

Radiometric surveys detect and map natural radioactive emanations, called gamma rays, from rocks and soils. All detectable gamma radiation from earth materials come from the natural decay products of three primary elements, uranium, thorium, and potassium. The purpose of radiometric surveys is to determine either the absolute or relative amounts of U, Th., and K in surface rocks and soils.

## 3.0 Survey Operations:

Precision GeoSurveys flew the Snowcap property using a Bell 206 BIII Jet Ranger (Figure 3). The survey lines were flown at a nominal line spacing of one hundred and fifty (150) meters and the tie lines were flown at 1 km spacing for both the spectrometer and magnetometer as they were acquired simultaneously. The average survey elevation was 35.2 meters vertically above ground. The experience of the pilot helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying.



Figure 3: Bell 206 Jet Ranger equipped with mag stinger for magnetic data acquisition.

The base of operations for this survey was the town of Carmacks, YK located approximately 170 km north-west of Whitehorse, YT. The Precision crew consisted of a total of two members:

Harmen Keyser – Pilot
Chris Brown – Operator/geophysicist

The first day of surveying was November 6, 2009 and the final day was November 10, 2009. The survey was completed without any equipment issues; however the crew was grounded for two days due to inclement weather. The average snow cover was estimated at 15 cm, therefore the gamma signal was attenuated and the spectrometer data are compromised.

## 4.0 Equipment:

For this survey, a magnetometer, spectrometer and a data acquisition system were required to carry out the survey and collect quality, high resolution data.

## 4.1 AGIS:

The Airborne Geophysical Information System, AGIS, (Figure 4), is the main computer used in data recording, data synchronizing, displaying real-time data for the operator to QC, pilot navigation and pilot display information.

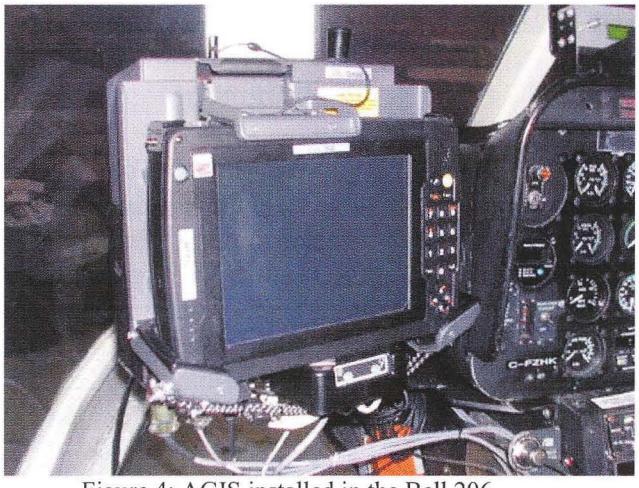



Figure 4: AGIS installed in the Bell 206.

The AGIS was manufactured by Pico Envirotec; therefore the system uses standardized Pico software and external sources are connected to the system via RS-232 serial communication cables. The AGIS data format is easily converted into Geosoft or ASCII file formats by a supplied conversion program called PEIView. Additional Pico software allows for post survey quality control procedures.

## 4.2 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing two downward facing NaI detecting crystals for a total volume of 8.4 litres (figure 5). Real time data acquisition, navigation and communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various elements (K, U, Th, etc.), temperature, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.

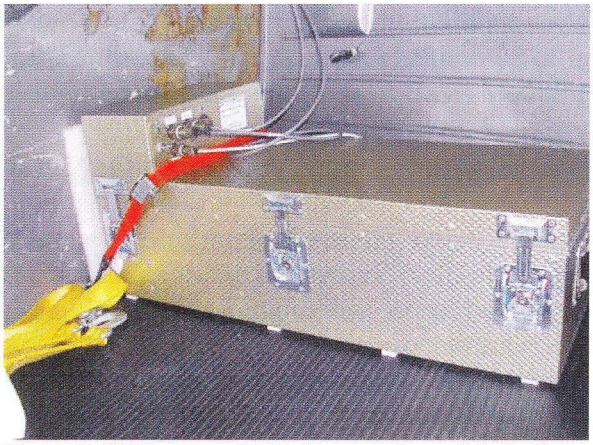


Figure 5: IRIS strapped into the cargo box of the helicopter.

## 4.3 Magnetometer:

The magnetometer used by Precision GeoSurveys is a Scintrex cesium vapor CS-3 magnetometer. The system was housed in a front mounted "stinger" (Figure 6). The CS-3 is a high sensitivity/low noise magnetometer with automatic hemisphere switching and a wide voltage range, the static noise rating for the unit is +/- 0.01 nT. On the AGIS screen the operator can view the raw magnetic response, the magnetic fourth difference and the survey altitude for immediate QC of the magnetic data. The magnetic data are recorded at 10 Hz. A magnetic compensator is also used to remove noise created by the movement of the helicopter as it pitches, rolls and yaws within the Earth's geomagnetic field.



Figure 6: View of the mag stinger.

## 5.0 Data Processing:

After all the data are collected after a survey flight several procedures are undertaken to ensure that the data meet a high standard of quality. All data were processed using Pico Envirotec software and Geosoft Oasis Montaj geophysical processing software.

## 5.1 Magnetic Processing:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself, movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey ($050^{o}/230^{o}$ and $140^{o}/320^{o}$ in the case of this survey) at an elevation where there is no ground effect in the magnetic data. In each heading roll, pitch and yaw maneuvers are performed by the pilot, these maneuvers provide the data that is required to calculate the necessary parameters for compensating the magnetic data. A computer program called PEIComp is used to create a model for each survey to remove the noise induced by aircraft movement; this model is applied to each survey flight so the data can be further processed.

A magnetic base station is set up before every flight to ensure that diurnal activity is recorded during the survey flights. Precision GeoSurveys uses a Geometrics 858 base station and sampled at 0.1 Hz. Base station readings were reviewed at regular intervals to ensure that no airborne data were collected during periods with high diurnal activity (greater than 5 nT per minute). The base station was installed at a magnetically noise-free area, away from metallic items such as steel objects, vehicles, or power lines. The magnetic variations recorded from the stationary base station are removed from the magnetic data recorded in flight to ensure that the anomalies seen are real and not due to solar activity.

Some filtering of the magnetic data is also required. A Non Linear filter was used for spike removal. The 1D Non-Linear Filter is ideal for removing very short wavelength, but high amplitude features from data. It is often thought of as a noise spike-rejection filter, but it can also be effective for removing short wavelength geological features, such as

signals from surficial features. The 1D Non-Linear Filter is used to locate and remove data that are recognized as noise. The algorithm is 'non- linear' because it looks at each data point and decides if that datum is noise or a valid signal. If the point is noise, it is simply removed and replaced by an estimate based on surrounding data points. Parts of the data that are not considered noise are not modified. The combination of a Non-Linear filter for noise removal and a low pass trend enhancement filter resulted in level data as indicated in the results section of this report. The low pass filters simply smoothes out the magnetic profile to remove isolated noise.

A lag correction was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 6.45 m ahead of the GPS antenna. Following a lag correction of 1.7 seconds, a low-pass filter equivalent to 1 second was then applied to the lag corrected data.

## 5.2 Radiometric Processing:

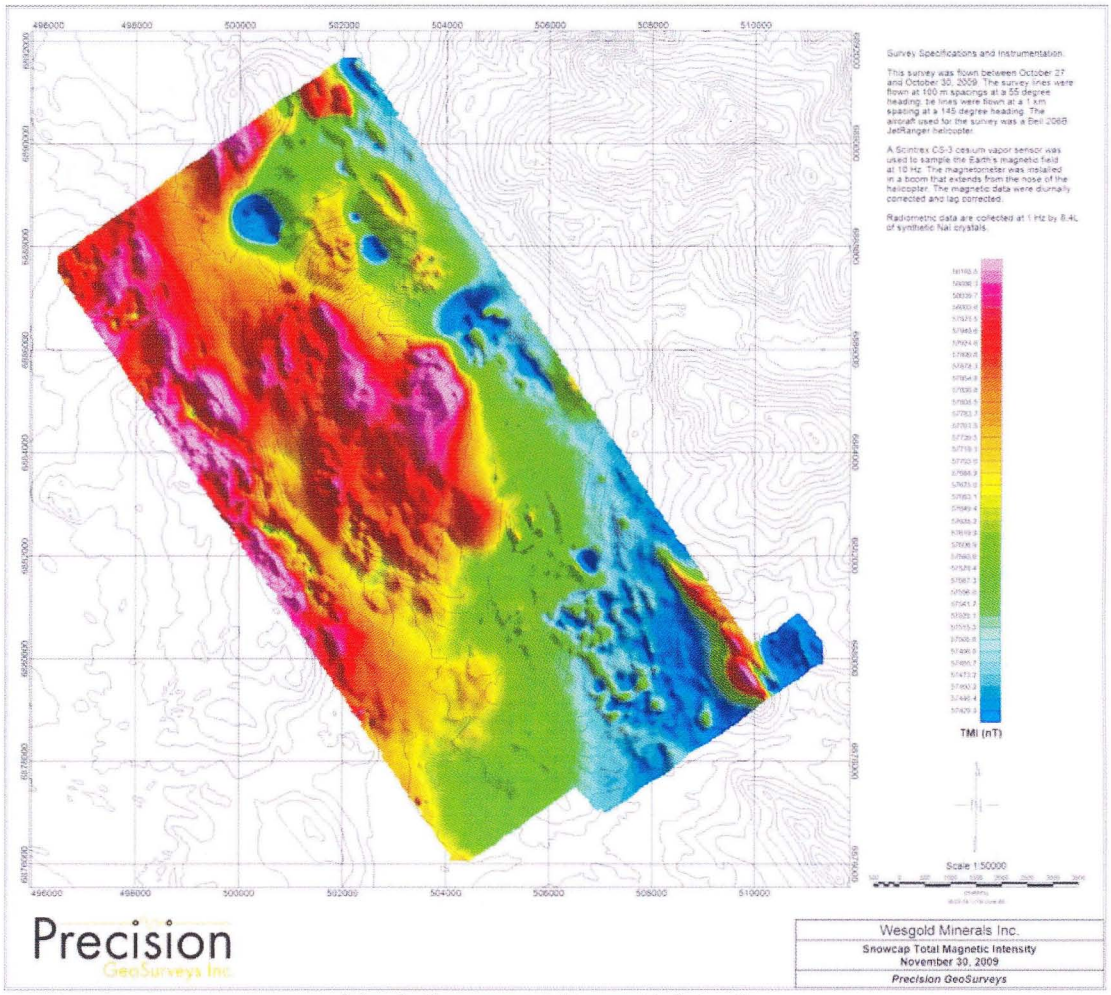
Radiometric data are processed by applying a lag and a short lowpass filter to smooth the data. Due to the snow cover present on the Snowcap property during this survey, the radiometric data were not processed further.

## 5.3 Final Data Format

X – Easting in NAD83, UTM zone 8N
Y – Northing in NAD83, UTM zone 8N
utctime – UTCtime
basemag – diurnal data
mag – total magnetic field
lalt – laser altimeter readings
TC – total count (cps)
K – potassium (cps)
U – uranium (cps)
Th – thorium (cps)

The file format will be provided in two (2) formats, the first will be a .GDB file for use in Geosoft Oasis Montaj, the second format will be a .XYZ file, this is text file. Two separate files will be provided for each format, one for the magnetic and one for the radiometrics.

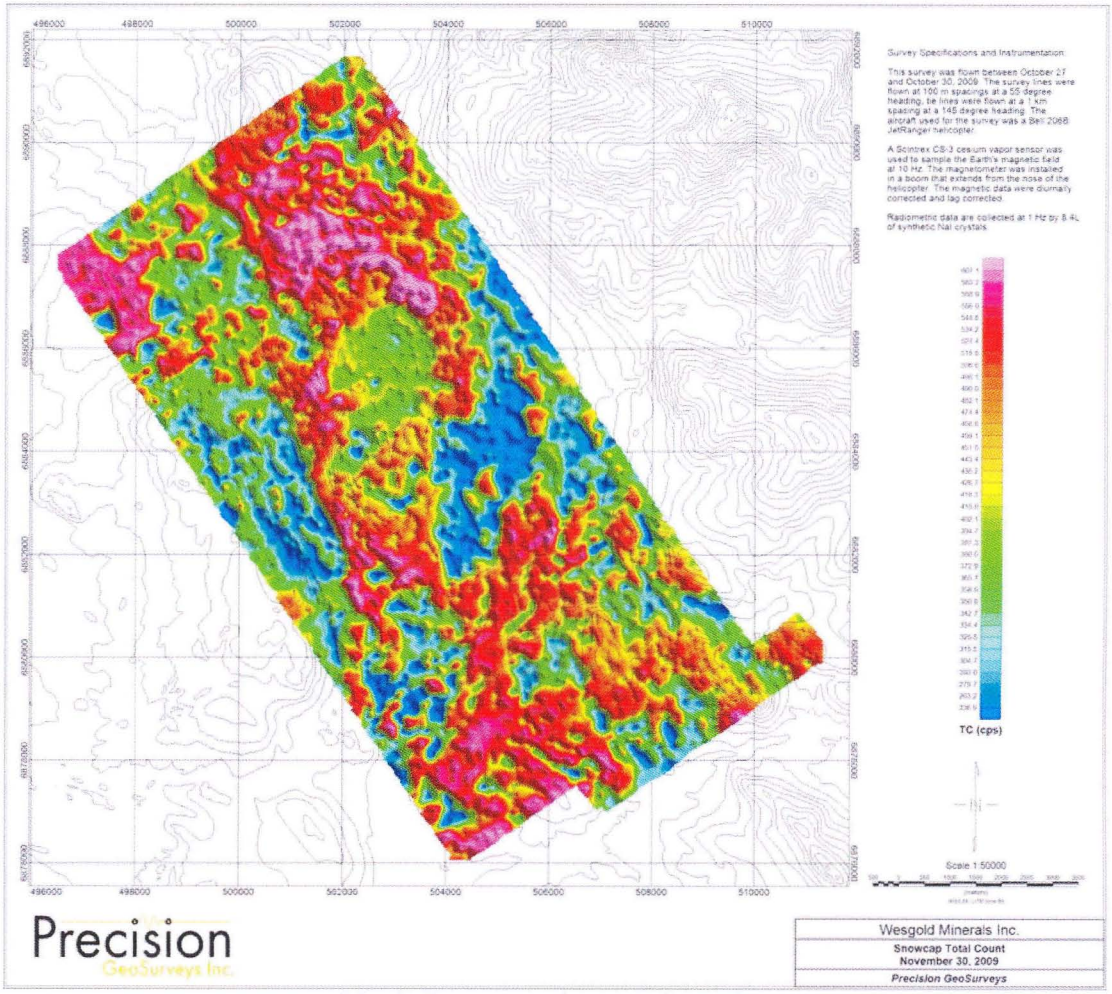
# Appendix A
# Maps



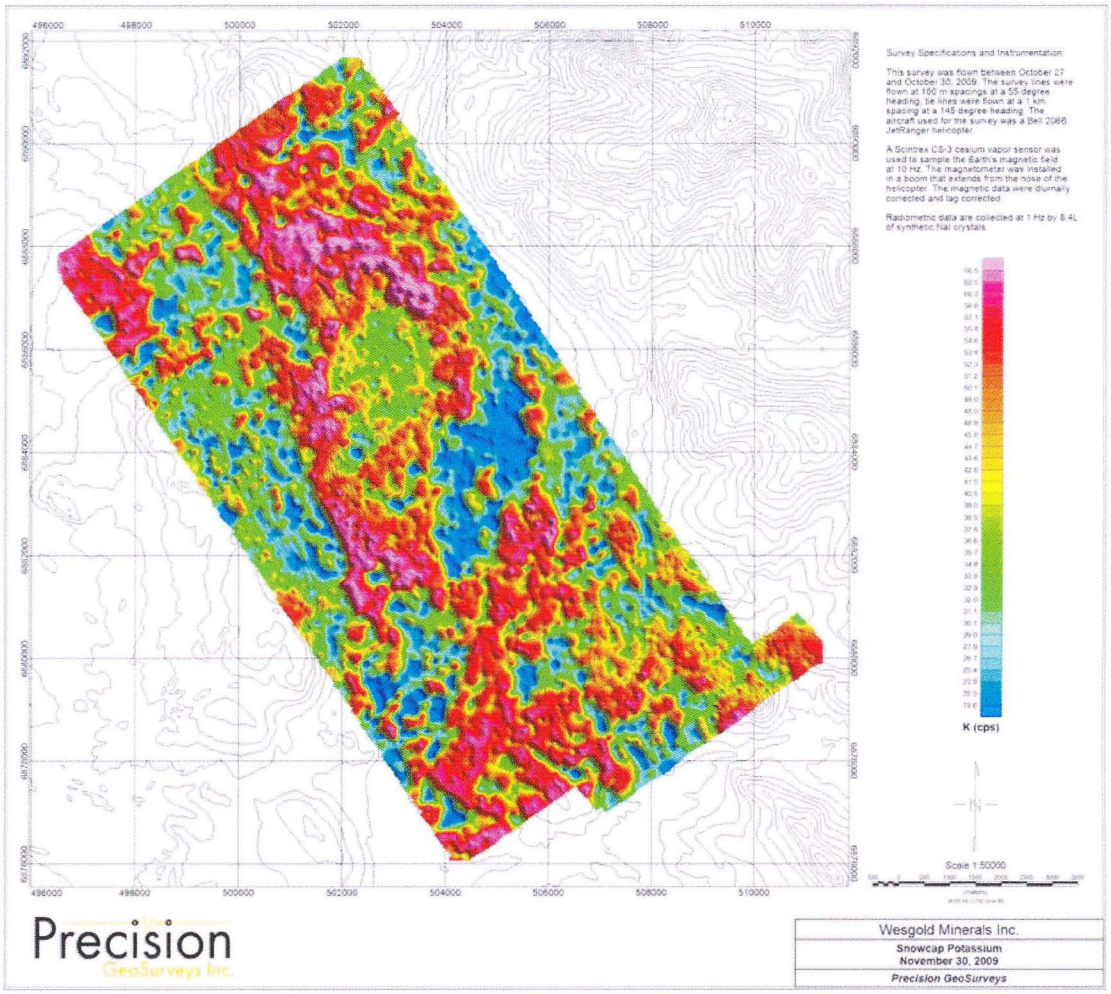

Map 1: Snowcap total magnetic intensity.



Precision GeoSurveys Inc.



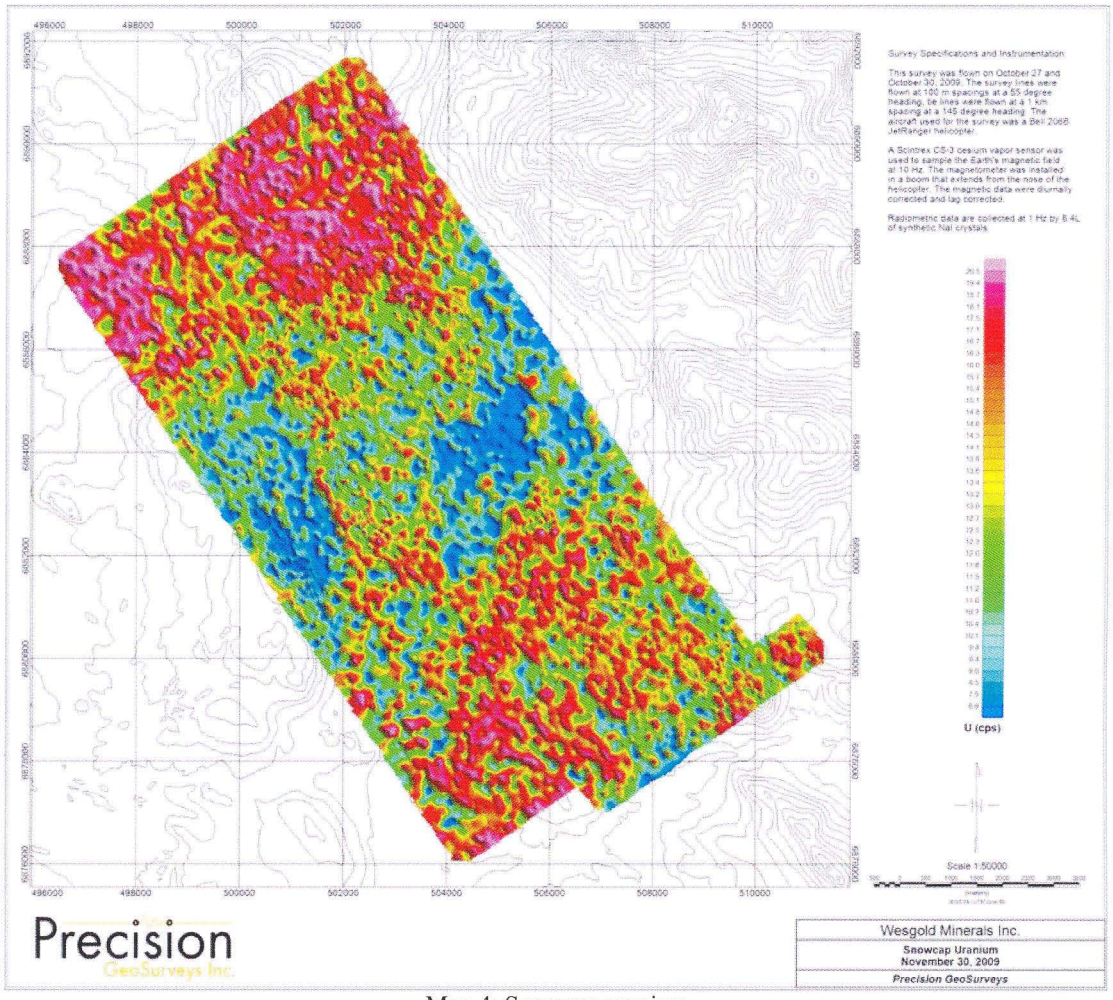

Map 2: Snowcap total count radiometrics.



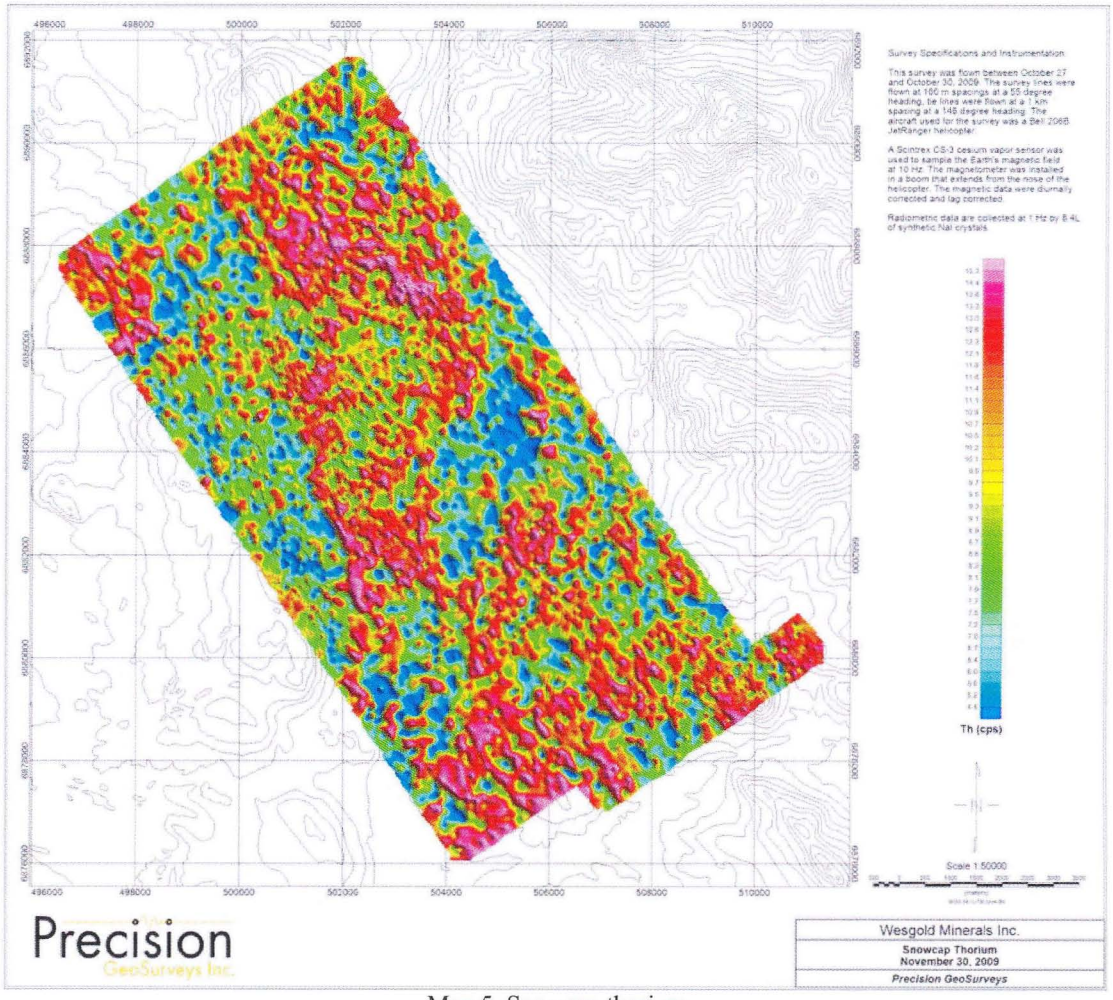

Map 3: Snowcap potassium



Precision
GeoSurveys Inc.




Map 4: Snowcap uranium




Map 5: Snowcap thorium



Precision GeoSurveys Inc.

# APPENDIX C

*Soil Sample Locations and Descriptions*

**Soil Geochemical Survey – Snowcap Property, 2009**
**Observations by Halle Geological Services**

In November of 2009, Halle Geological Services Limited, on behalf of Wesgold Minerals, conducted a program of soil collection for the purposes of geochemistry. Soil sampling was carried out on or parallel to claim boundaries at 5 locations on the contiguous claims of the Snowcap Property. Soil lines were designed to traverse geophysical anomalies (ie. Lines 1, 2, and the west end of Line 4), as well as traverse previously-known areas of geochemical anomalies (ie. the East end of Line 4, and Lines 5 and 6). The total length of soil lines measures 6150 metres, with the longest line being 3000 metres (Line 4) and the shortest being 500 metres (Lines 5 and 6). Fieldwork consisted of 155 soil samples from 127 stations.

Grid stations were located with the use of a hand-held GPS and marked with flagging tape. Soil samples were collected with the use of a 1-metre hand-auger at the maximum depth of auger penetration, usually corresponding to the B horizon. Two samples were collected in areas of deep auger penetration, and or where there was a significant change in soil horizon characteristics. Samples were placed in paper soil bags and labeled with the sample number. All soil samples were shipped to Acme Analytical Laboratories Ltd. in Vancouver, and prepared using package S230, along with a 36-element ICP-MS analysis (1DX2), and a Group 3A fire assay finish analysis. See Appendix for details on analytical methods.

The field crew was supplied by Halle Geological Services Ltd. of Whitehorse, YT, and consisted of geologists, Jesse Halle and Emily Halle.

**Observations**

The majority of soil samples taken from the Snowcap Property consisted of a medium brown silt with sand varying from 5-50%, and containing a minor portion of well-rounded pebbles and stones. This till also includes angular fragments of country rock where proximal to the contact with bedrock.

Redeposition of this till is evident in valleys and depressions, which show local clay-rich, or sand-dominated upper horizons. In one sample, a 40-cm clayey-silt layer was found overlying an organic horizon, indicating a possible, local mass wasting event recent in geologic history.

The till has been subject to soil formation processes typical of those found in boreal regions (podsol). Beneath a peat horizon kept thin by frequent forest fires, a dark brown to black, organic-rich 'mucky' layer (AO) may exist, especially in lower, wetter areas. In better-drained soils, a bleached, sandy horizon, leached of clays and ions (AE), gives way to an even-textured, deep reddish brown, silty horizon (upper B), that commonly attains 30cm in thickness. Below this, a gradational to marked colour change indicates that the till is no longer affected by the downward percolation of clays and ions (notably ferric

iron responsible for the red colour). In many instances, an increase in sandy, pebbly, or stony material accompanies this change, as either rounded (distal), or angular (proximal) rocks. The soil is sometimes considered to transition to a C-horizon once these inclusions are angular, monolithic, and proximal to bedrock.

Samples attempted from north-facing slopes were often met with impenetrable permafrost at depths between 30 and 70 centimetres. Periodic through-freezing of the entire soil column, and seasonal perched water tables above the permafrost was seen to destroy much of the soil horizons. Slow groundwater movement through these soils produces a grey-green, often mottled, anoxic B-horizon, similar to those found in wetlands (treed bogs) elsewhere on the property.

Thick layers of light grey, volcanic ash seen in road cuts north of the town of Carmacks were not identified in the soils collected by Halle Geological Services Ltd. on the Snowcap Property.

**Wesgold Minerals Inc.**

**SNOWCAP SOIL SAMPLING PROGRAM 2009 - Halle Geological Services Inc.**

Acme Analytical Laboratories Report VAN09005540, mesh size -230

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | L1-001A | 500339 | 6888182 | 10/31/2009 | 10:21 | B | 50-60 | Mineral soil from surface. Dull medium brown to red brown. Relatively well drained. 50% Silt, 50% sand. B Horizon. | 0.9 | 22.6 | 8.7 | 43 | 0.1 | 20.3 | 7.4 | 279 | 1.77 | 10.3 | 0.9 | 2.4 | 5.2 | 19 | 0.1 | 0.7 | 0.3 | 36 | 0.37 | 0.07 | 19 | 24 | 0.41 | 147 | 0.063 | 1 | 1.07 | 0.016 | 0.07 | 0.5 | 0.02 | 3.2 | 0.1 | 0.05 | 3 | 0.5 |
| 1 | L1-001B | 500339 | 6888182 | 10/31/2009 | 10:21 | B | 60-70 | Continued from above, but slightly coarser grain and increasing sand after 60cm. Sample stopped after 70 cm by unknown hardpan (bedrock or possible boulder lag?). | 1.7 | 29.6 | 13.6 | 57 | 0.1 | 22.4 | 8.3 | 354 | 1.9 | 17.2 | 1 | 3.2 | 6.3 | 21 | 0.2 | 1 | 0.3 | 37 | 0.39 | 0.086 | 24 | 25 | 0.39 | 148 | 0.059 | 1 | 0.94 | 0.019 | 0.09 | 0.8 | 0.03 | 3.3 | 0.1 | 0.05 | 3 | 0.5 |
| 1 | L1-002 | 500384 | 6888212 | 10/31/2009 | 10:53 | B | 25-35 | AO horizon, quickly into upper B horizon +/- minor pebbles to 25cm. Mottled, with a mix of light and dark brown soil. Lower B horizon begins after 25 cm as sandy soil with well worn, rounded pebbles (possible till?). Multiple holes attempted, all bottoming out on hardpan (rock?) before 50cm. | 0.3 | 9.9 | 2.9 | 14 | 0.1 | 3.2 | 1.4 | 103 | 0.45 | 3 | 0.5 | 0.5 | 0.1 | 14 | 0.1 | 0.2 | 0.1 | 11 | 0.26 | 0.026 | 7 | 5 | 0.08 | 76 | 0.01 | 1 | 0.39 | 0.044 | 0.05 | 0.1 | 0.01 | 0.3 | 0.1 | 0.05 | 1 | 0.5 |
| 1 | **L1-003** | 500439 | 6888232 | 10/31/2009 | 11:09 | B | 10-20 | Minor AO into well drained, silty and oxidized, medium brown, pebbly, B horizon ~10cm (mixing with Fe enriched soils). Bottoms out on boulder hardpan. Large cobble-sized stones (including schist, volcanics, and limestone) exposed in clay rich A or B horizon in tree-peels nearby. (Series of photos taken named L1-003). | 0.7 | 11.3 | 7.6 | 47 | 0.1 | 11.1 | 5.2 | 133 | 1.63 | 5 | 0.4 | 5.3 | 3 | 20 | 0.1 | 0.4 | 0.2 | 45 | 0.24 | 0.02 | 12 | 24 | 0.3 | 167 | 0.069 | 1 | 1.22 | 0.015 | 0.04 | 0.3 | 0.01 | 1.9 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-004 | 500471 | 6888259 | 10/31/2009 | 11:20 | B | 40-50 | Change in soil from above stations. Possible outwash. Medium brown, silty upper B horizon to apx. 30cm, followed by mottled medium and dark brown, sandy +/- stoney lower B horizon soil. Well drained, gritty mixture with up to 30% pebbles (sub-rounded limestone fragments +/- schist). Transported. | 1 | 28.5 | 12 | 50 | 0.1 | 27.6 | 9.7 | 428 | 2.46 | 17.5 | 1.3 | 2.3 | 8 | 26 | 0.2 | 0.9 | 0.3 | 46 | 0.37 | 0.06 | 28 | 32 | 0.52 | 171 | 0.075 | 1 | 1.39 | 0.016 | 0.08 | 0.5 | 0.03 | 4.7 | 0.1 | 0.05 | 4 | 0.6 |
| 1 | L1-005 | 500512 | 6888285 | 10/31/2009 | 11:29 | B | 30-40 | Silty (+/- minor clay) upper B horizon 20-30cm, then into a pebbly B, similar to that above (L1-004), but with increasing sand, and decreasing pebble size. Bottoms out on large boulders/bedrock ~40cm. | 0.7 | 20.1 | 6.6 | 49 | 0.1 | 26.6 | 11.8 | 363 | 2.88 | 10.1 | 1.1 | 1.4 | 5.6 | 23 | 0.1 | 0.6 | 0.2 | 66 | 0.42 | 0.051 | 22 | 37 | 1.01 | 204 | 0.092 | 1 | 1.87 | 0.029 | 0.12 | 0.4 | 0.02 | 7.1 | 0.1 | 0.05 | 6 | 0.5 |
| 1 | L1-006 | 500561 | 6888308 | 10/31/2009 | 11:39 | B | 50-60 | Leached AE to 10cm, followed by iron enriched, silty (+/- minor clay) medium red brown upper B horizon to 30cm. Increasing grit and pebbles in a well drained, medium brown, increasingly sandy lower B horizon after 30cm. Possible limestone pebbles (increasing pebble size with depth). Bottoms out on boulders/bedrock ~60cm. | 1.1 | 27.3 | 10 | 48 | 0.1 | 26.9 | 9.8 | 401 | 2.68 | 19.9 | 1.5 | 2.2 | 6.9 | 23 | 0.1 | 0.9 | 0.3 | 45 | 0.39 | 0.076 | 23 | 32 | 0.49 | 160 | 0.056 | 1 | 1.17 | 0.018 | 0.09 | 0.6 | 0.03 | 4.5 | 0.1 | 0.05 | 4 | 0.6 |
| 1 | L1-007 | 500603 | 6888326 | 10/31/2009 | 12:00 | B | 20-30 | Up to 5cm of leached, light coloured AE, into a medium red brown to dark brown iron enriched silty lower A/upper B horizon to 10cm, followed by a medium brown, silty (lower) B horizon, with grain size and pebble intensity increasing down hole after 20cm. Bottoms out on hardpan ~30cm. | 1 | 22.5 | 10.1 | 43 | 0.1 | 22.7 | 8.3 | 220 | 2.39 | 10.5 | 0.9 | 1.4 | 6 | 16 | 0.1 | 0.7 | 0.2 | 50 | 0.25 | 0.019 | 17 | 33 | 0.48 | 154 | 0.051 | 1 | 1.45 | 0.019 | 0.07 | 0.3 | 0.02 | 3.5 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-008 | 500646 | 6888349 | 10/31/2009 | 12:00 | B | 50-60 | 1-5cm of dark AO, and 5-10 cm of leached AE. Medium to dark brown, silty to sandy, AB horizon to 15cm, followed by a vfg, silty, medium brown B horizon. Pebbles increasing with depth (to gravel size after 30cm). Some large pebbles are angular and bedded (proximal?), others rounded (distal). | 1.2 | 19.7 | 7 | 43 | 0.1 | 22.8 | 7.6 | 271 | 2.25 | 11.8 | 0.8 | 1.5 | 6.5 | 17 | 0.1 | 0.6 | 0.3 | 42 | 0.37 | 0.052 | 12 | 32 | 0.51 | 139 | 0.06 | 1 | 1.25 | 0.016 | 0.09 | 0.4 | 0.01 | 3.2 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-009 | 500691 | 6888378 | 10/31/2009 | 12:25 | A | 25-35 | Very dark brown to black organics (O) into an AO +/- AE to 15% horizon to 20cm. Bottomed out on permafrost, therefore required to take horizon A as the sample material. | 1.8 | 23.1 | 5.6 | 39 | 0.1 | 25.2 | 8.5 | 399 | 2.77 | 17.5 | 1.6 | 0.5 | 2.2 | 52 | 0.3 | 0.6 | 0.2 | 37 | 1.3 | 0.097 | 16 | 23 | 0.34 | 325 | 0.032 | 1 | 0.9 | 0.009 | 0.06 | 0.3 | 0.03 | 2.2 | 0.1 | 0.11 | 3 | 0.5 |
| 1 | L1-010 | 500734 | 6888400 | 10/31/2009 | 12:30 | AB | 20-30 | Organic rich O, AO +/- 10% AE, similar to that in station L1-009. Possible mix with minor, medium brown B horizon soil after 20cm. Bottomed out on permafrost ~30cm. Proximal to a lake. | 0.9 | 27.8 | 2.8 | 23 | 0.1 | 14.2 | 5.7 | 369 | 0.99 | 3.3 | 1.7 | 1.4 | 1 | 44 | 0.2 | 0.6 | 0.1 | 19 | 1.06 | 0.064 | 18 | 12 | 0.15 | 210 | 0.019 | 1 | 0.74 | 0.017 | 0.04 | 0.1 | 0.05 | 1.3 | 0.1 | 0.09 | 2 | 0.9 |
| 1 | L1-011 | 500776 | 6888414 | 10/31/2009 | 12:49 | BA | 20-30 | Dark brown to black, organic rich soil to 20cm. Mixing with medium brown B horizon after 15cm. Bottoms out on permafrost ~ 30cm. Proximal to lake. | 0.7 | 10.6 | 2.1 | 15 | 0.1 | 5.6 | 1.4 | 98 | 0.39 | 3 | 0.4 | 0.5 | 0.6 | 13 | 0.1 | 0.2 | 0.1 | 6 | 0.21 | 0.03 | 9 | 4 | 0.05 | 76 | 0.012 | 1 | 0.43 | 0.036 | 0.05 | 0.1 | 0.02 | 0.6 | 0.1 | 0.05 | 1 | 0.5 |
| 1 | L1-012 | 500828 | 6888432 | 10/31/2009 | 12:51 | AB | 20-30 | Organic rich O/AO +/- minor B horizon pockets (to 5%) after 20cm. Bottoms out on permafrost ~ 30cm. Bagged mostly organics. Proximal to lake. | 1.2 | 26.7 | 5.3 | 31 | 0.2 | 15.5 | 4.7 | 436 | 1.05 | 3.4 | 3 | 1.2 | 1.4 | 38 | 0.3 | 0.6 | 0.1 | 20 | 0.79 | 0.076 | 162 | 14 | 0.17 | 189 | 0.018 | 1 | 0.83 | 0.015 | 0.06 | 0.2 | 0.06 | 1.6 | 0.1 | 0.09 | 3 | 1.3 |
| 1 | L1-013 | 500877 | 6888449 | 10/31/2009 | 13:07 | AB | 10-20 | 5cm Humus, followed by dark brown AB mix of coarse sand and silt +/ pebbles, increasing with depth. Bottoms out in permafrost and or boulder field. | 2.1 | 29.2 | 8 | 49 | 0.2 | 21.1 | 8.3 | 384 | 1.8 | 9.1 | 2.1 | 2.2 | 3.7 | 35 | 0.2 | 0.7 | 0.2 | 35 | 0.81 | 0.077 | 76 | 24 | 0.45 | 170 | 0.041 | 1 | 1.13 | 0.012 | 0.08 | 0.6 | 0.05 | 2.6 | 0.1 | 0.06 | 3 | 1 |
| 1 | L1-014 | 500919 | 6888470 | 10/31/2009 | 13:32 | AB | 15-25 | Humus, followed by a silty, dark reddish brown, iron enriched soil (upper B). Increasing gravel after 15cm, as angular limestone/volcanic fragments (lower B). | 2.3 | 45.3 | 17.9 | 65 | 0.2 | 27.2 | 7.8 | 391 | 2.23 | 18.8 | 6.4 | 2.2 | 4.6 | 41 | 0.2 | 0.8 | 0.4 | 38 | 0.8 | 0.111 | 337 | 27 | 0.45 | 296 | 0.021 | 1 | 1.63 | 0.013 | 0.09 | 0.5 | 0.11 | 3.6 | 0.2 | 0.05 | 5 | 2.5 |
| 1 | L1-015 | 500969 | 6888489 | 10/31/2009 | 13:34 | B | 50-60 | Organic rich, silty A, grading into a well drained, pebbly, silty B horizon. Light to medium buff brown. Centimetre sized, +/- rounded pebbles to 10% throughout. Poorly sorted. | 1.3 | 21.1 | 9.4 | 53 | 0.1 | 24.3 | 8.7 | 337 | 2.21 | 12.1 | 1.5 | 2.5 | 5.4 | 26 | 0.2 | 0.7 | 0.2 | 39 | 0.63 | 0.092 | 20 | 29 | 0.55 | 156 | 0.057 | 1 | 1.14 | 0.013 | 0.1 | 0.5 | 0.05 | 3 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-016 | 501016 | 6888508 | 10/31/2009 | 13:43 | B | 20-30 | Frozen A to 10cm, followed by medium greenish brown sandy, gritty B horizon, mixed with up to 5% medium to dark brown soil after 20cm. Bottoms out on permafrost? | 1.6 | 23.5 | 7 | 44 | 0.1 | 20.9 | 6.9 | 271 | 2 | 13 | 1.2 | 1.6 | 5.1 | 20 | 0.1 | 0.8 | 0.2 | 35 | 0.45 | 0.081 | 25 | 26 | 0.5 | 153 | 0.051 | 1 | 1 | 0.032 | 0.1 | 0.6 | 0.02 | 3.2 | 0.1 | 0.05 | 3 | 0.5 |
| 1 | L1-017 | 501057 | 6888538 | 10/31/2009 | 14:00 | B | 10-20 | Quickly into a medium green brown B horizon after removing frozen ground. Silty with sand and abundant pebbles and cobbles, including Quartz fragments and limestone. Bottoms out on permafrost? | 1.5 | 17.7 | 8.2 | 39 | 0.1 | 20.3 | 6.5 | 205 | 1.98 | 7.8 | 1.1 | 2.5 | 5.7 | 20 | 0.1 | 0.4 | 0.2 | 40 | 0.39 | 0.08 | 78 | 28 | 0.51 | 169 | 0.053 | 1 | 1.3 | 0.014 | 0.07 | 0.4 | 0.02 | 2.6 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-018 | 501101 | 6888561 | 10/31/2009 | 14:19 | AE? | 20-30 | Humus to ~5cm, followed by well sorted, sandy leached AE. Pebbly B horizon starts ~30cm (?). Bottoms out at 30 cm due to boulders/large cobbles. | 0.3 | 3.4 | 1 | 11 | 0.1 | 3.1 | 1.6 | 44 | 0.34 | 1.6 | 0.2 | 0.5 | 0.6 | 8 | 0.1 | 0.1 | 0.1 | 9 | 0.09 | 0.015 | 4 | 6 | 0.05 | 51 | 0.017 | 1 | 0.4 | 0.03 | 0.04 | 0.1 | 0.01 | 0.5 | 0.1 | 0.05 | 1 | 0.5 |
| 1 | L1-019 | 501143 | 6888589 | 10/31/2009 | 14:28 | AB | 30-40 | Leached, sandy AE to 10cm, followed by a silty, light brown to tan homogenous A(?) horizon +/- increasing pebbles (possible B horizon?) Bottoms out on bedrock at 45cm. Relatively flat-lying outcrop exposed nearby (vfg rhyolite) - rock samples taken (L1-RS1) | 0.5 | 14.6 | 5.8 | 34 | 0.1 | 18.1 | 6.2 | 185 | 1.83 | 5.9 | 0.8 | 0.5 | 4.9 | 18 | 0.1 | 0.3 | 0.2 | 41 | 0.29 | 0.053 | 20 | 28 | 0.43 | 134 | 0.055 | 1 | 1.15 | 0.014 | 0.05 | 0.3 | 0.01 | 2.4 | 0.1 | 0.05 | 4 | 0.5 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
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| 1 | L1-020 | 501185 | 6888619 | 10/31/2009 | 14:41 | B | 25-35 | Iron rich upper B into gravelly, silt dominated, medium brown coloured lower B horizon. Station terminated on bedrock ~35cm. Exposed, volcanic outcrop within 10m. Large granite boulders/drop-stones also within the area. | 0.8 | 13.2 | 6.8 | 36 | 0.1 | 18.4 | 6.7 | 201 | 2.06 | 8 | 0.8 | 1.2 | 5 | 16 | 0.1 | 0.4 | 0.2 | 46 | 0.25 | 0.046 | 18 | 31 | 0.45 | 137 | 0.064 | 1 | 1.34 | 0.019 | 0.05 | 0.4 | 0.01 | 2.8 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-021 | 501227 | 6888648 | 10/31/2009 | 14:48 | B | 25-35 | Minor leached AE into iron rich upper B to 10cm. Creamy, silty medium brown B horizon, with minor grit and pebbles increasing down hole, terminates at bedrock (?) ~35cm. | 0.8 | 16.5 | 6.1 | 41 | 0.1 | 22.9 | 7.8 | 297 | 2.18 | 6.8 | 1.1 | 1.1 | 6.4 | 21 | 0.1 | 0.5 | 0.2 | 46 | 0.35 | 0.077 | 23 | 32 | 0.52 | 139 | 0.068 | 1 | 1.24 | 0.022 | 0.08 | 0.4 | 0.01 | 3.5 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-022 | 501274 | 6888670 | 10/31/2009 | 14:55 | B | 40-50 | Organic rich, very dark brown silty AO to 10cm, followed by increasing, rounded coarse material to 20% in an upper B horizon. Wet, poorly drained, and mixing with 10% medium brown lower B horizon soil after 40cm. In a stream depression. | 1.6 | 34.7 | 8.4 | 52 | 0.2 | 22.9 | 8.9 | 927 | 1.8 | 11.3 | 9.5 | 3.7 | 4.2 | 31 | 0.3 | 0.7 | 0.3 | 32 | 0.81 | 0.081 | 61 | 27 | 0.49 | 134 | 0.041 | 1 | 1.1 | 0.013 | 0.09 | 0.4 | 0.05 | 3 | 0.1 | 0.05 | 4 | 1.6 |
| 1 | L1-023 | 501320 | 6888700 | 10/31/2009 | 15:04 | B | 45-55 | Organic rich, very dark brown to black AO into a wet, silty, upper B +/- minor rounded pebbles. After 25cm, there is a creamy medium (green) brown silty to sandy gravel mixed lower B horizon. Rounded to sub-rounded pebbles Hardpan ~55cm. | 1.5 | 24.2 | 7.9 | 49 | 0.1 | 26.1 | 10.2 | 481 | 2.48 | 15.7 | 4.2 | 1.9 | 5.8 | 26 | 0.1 | 0.7 | 0.3 | 37 | 0.56 | 0.066 | 23 | 29 | 0.62 | 160 | 0.041 | 1 | 1.29 | 0.022 | 0.11 | 0.6 | 0.02 | 3.3 | 0.1 | 0.05 | 4 | 0.5 |
| 1 | L1-024 | 501366 | 6888714 | 10/31/2009 | 15:10 | - | - | Near surface bedrock (<10cm). Large blocky Rhyolite outcrop nearby - Rock sample taken (L1-RS2). No soil development, therefore, no A or B sample available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | L2-001A | 502719 | 6887982 | 11/1/2009 | 12:02 | B | 25-35 | Moss covered (O), followed by a brief A horizon, and into a well drained, silty, medium reddish brown, iron enriched B horizon ~20cm. Increasing gritty sand and minor rounded pebbles, and decreasing iron after 25cm (medium (greenish) brown lower B horizon). | 0.9 | 15.9 | 7.9 | 49 | 0.1 | 17.8 | 7.4 | 320 | 1.86 | 9.8 | 0.9 | 4.3 | 5.3 | 19 | 0.1 | 0.5 | 0.3 | 36 | 0.36 | 0.08 | 23 | 25 | 0.49 | 151 | 0.046 | 1 | 1.17 | 0.018 | 0.07 | 0.5 | 0.02 | 2.4 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-001B | 502719 | 6887982 | 11/1/2009 | 12:02 | B | 60-70 | Continued from above, but increasingly moist, B horizon soil. Medium greenish brown, with minor gravel, pebbles and rock chips. Bottoms out on boulders - possible rock slide/boulder field? On a hillside. | 0.7 | 16.1 | 6.7 | 44 | 0.1 | 14.5 | 5.9 | 245 | 1.6 | 9.4 | 0.8 | 1.7 | 2.8 | 17 | 0.1 | 0.5 | 0.3 | 33 | 0.33 | 0.06 | 20 | 20 | 0.35 | 149 | 0.031 | 1 | 1.07 | 0.013 | 0.07 | 0.4 | 0.02 | 1.9 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-002 | 502675 | 6887957 | 11/1/2009 | 12:07 | BA | 20-30 | Frozen moss and organics to 5cm, followed by a dark brown AO horizon, mixing with a medium brown B horizon to 30cm. Silty and well drained. Mottled, but lighter brown with depth (including local dark brown (organic?) pockets/micro channels and pebbles. Multiple holes attempted all bottoming out on large boulders (possible slide) ~30cm. Plates of rock (angular tuff and fragmental volcanics) dug up locally with grub-hoe. | 0.6 | 5.8 | 2.5 | 15 | 0.1 | 3.9 | 1.4 | 51 | 0.41 | 1.1 | 0.4 | 0.5 | 0.2 | 6 | 0.1 | 0.1 | 0.1 | 9 | 0.06 | 0.031 | 9 | 7 | 0.08 | 50 | 0.009 | 1 | 0.58 | 0.017 | 0.05 | 0.1 | 0.01 | 0.5 | 0.1 | 0.05 | 2 | 0.5 |
| 2 | L2-003A | 502631 | 6887935 | 11/1/2009 | 12:19 | B | 20-30 | Moss and organics to 10cm, followed by a medium greenish-brown, relatively well drained, silty B horizon to 20cm. Mixing with anoxic, light gray-green spots after 30cm. | 1 | 13.8 | 7.1 | 46 | 0.1 | 15.9 | 6.4 | 345 | 1.79 | 7.7 | 0.9 | 1.6 | 4.4 | 16 | 0.1 | 0.5 | 0.2 | 34 | 0.29 | 0.07 | 25 | 24 | 0.43 | 141 | 0.044 | 1 | 1.14 | 0.014 | 0.07 | 0.3 | 0.02 | 2.1 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-003B | 502631 | 6887935 | 11/1/2009 | 12:19 | B | 40-50 | Continued from above, but as a wet, medium brown B horizon after 35cm. Hole collapses in/water table at 50cm. Possible perched swamp. | 1 | 14.6 | 7.4 | 46 | 0.1 | 15.8 | 6.4 | 326 | 1.71 | 7.4 | 1 | 2.6 | 4.8 | 16 | 0.1 | 0.5 | 0.2 | 34 | 0.31 | 0.073 | 25 | 23 | 0.44 | 145 | 0.048 | 107 | 1.16 | 0.024 | 0.07 | 0.3 | 0.01 | 2.1 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-004 | 502583 | 6887914 | 11/1/2009 | 12:29 | B | 35-45 | Minor roots and organics covering a medium to dark brown, dry A horizon, and into a dry, crumbly, lighter medium brown to tan colured B horizon after 10cm. Silty, with rounded pebbles and minor gravel to 20%. Minor local rock fragments (rhyolite?). Bottoms out on rocks/boulders(?) ~ 45cm. | 0.8 | 14.9 | 6 | 44 | 0.1 | 21.1 | 7.7 | 272 | 2.1 | 7.2 | 1.2 | 0.9 | 6.2 | 21 | 0.1 | 0.4 | 0.2 | 44 | 0.43 | 0.071 | 19 | 31 | 0.53 | 207 | 0.071 | 1 | 1.44 | 0.024 | 0.07 | 0.4 | 0.01 | 3.1 | 0.1 | 0.05 | 4 | 0.6 |
| 2 | L2-005A | 502538 | 6887894 | 11/1/2009 | 12:38 | B | 40-50 | Minor organics O/AO, and quickly into an upper B horizon. Medium greenish brown, dry and silty to 30 cm, followed by a well developed, slightly lighter brown soil to 50cm with minor grit and rounded pebbles to 10%. | 1 | 12.8 | 6 | 43 | 0.1 | 17.3 | 7.8 | 325 | 1.86 | 4.9 | 1.4 | 0.5 | 5.1 | 20 | 0.1 | 0.3 | 0.2 | 42 | 0.39 | 0.08 | 21 | 28 | 0.49 | 199 | 0.054 | 1 | 1.35 | 0.012 | 0.05 | 0.4 | 0.02 | 2.7 | 0.1 | 0.05 | 4 | 0.6 |
| 2 | L2-005B | 502538 | 6887894 | 11/1/2009 | 12:38 | B | 75-85 | Continued from above, dry B, with increasing rounded pebbles (including granite). Max auger depth 85-95cm. | 0.5 | 13.1 | 5.2 | 39 | 0.1 | 17.1 | 6.2 | 225 | 1.71 | 4.7 | 0.9 | 1.7 | 5.9 | 22 | 0.1 | 0.4 | 0.1 | 42 | 0.46 | 0.096 | 19 | 26 | 0.49 | 130 | 0.068 | 1 | 1.01 | 0.014 | 0.06 | 0.4 | 0.01 | 2.6 | 0.1 | 0.05 | 3 | 0.5 |
| 2 | L2-006 | 502497 | 6887867 | 11/1/2009 | 13:06 | B | 30-40 | Minor moss and organics, followed by a medium to dark green brown silty, dry AB horizon, then a gravelly, dry B horizon after 20cm. Bottoms out on boulders/bedrock ~ 40cm. | 1 | 13.2 | 6 | 39 | 0.1 | 20.5 | 7.2 | 309 | 1.99 | 9.4 | 0.9 | 4.2 | 5.1 | 19 | 0.1 | 0.6 | 0.2 | 39 | 0.35 | 0.082 | 19 | 28 | 0.51 | 167 | 0.054 | 1 | 1.11 | 0.012 | 0.07 | 0.5 | 0.01 | 2.2 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-007 | 502457 | 6887833 | 11/1/2009 | 13:06 | B | 35-45 | Moss and Organics to 5cm. Light to medium green brown, well drained, silty AB horizon to 30cm, then into a wet B horizon. Gravel increases throughout after 15cm. Bedrock at 45cm. | 4.6 | 18.4 | 10.3 | 71 | 0.2 | 17.5 | 7.7 | 423 | 2.33 | 13.1 | 1.8 | 1.6 | 3.8 | 18 | 0.1 | 0.6 | 0.4 | 41 | 0.27 | 0.063 | 70 | 28 | 0.49 | 216 | 0.021 | 1 | 1.8 | 0.017 | 0.13 | 0.2 | 0.03 | 2.7 | 0.2 | 0.05 | 6 | 0.8 |
| 2 | L2-008 | 502415 | 6887803 | 11/1/2009 | 13:14 | B | 40-50 | Minor moss and organics covering a dry, silty, medium green brown AB for 20cm, then into a dry, medium brown B with minor rounded pebbles and gravel. Terminates on bedrock ~ 50cm. | 2 | 13.7 | 9.7 | 56 | 0.1 | 18.2 | 6.8 | 363 | 2.26 | 10.2 | 1 | 1.9 | 4.1 | 18 | 0.1 | 0.6 | 0.3 | 44 | 0.29 | 0.07 | 28 | 28 | 0.5 | 148 | 0.045 | 1 | 1.4 | 0.009 | 0.09 | 0.3 | 0.02 | 2.3 | 0.1 | 0.05 | 5 | 0.5 |
| 2 | L2-009A | 502373 | 6887780 | 11/1/2009 | 13:21 | B | 30-40 | Bouldery surface. Minor moss cover into a dry A, then gradationally into a moist, well developed, upper B. Pebbly, silty and medium brown. | 1.6 | 13.2 | 7.5 | 60 | 0.1 | 16.9 | 6.4 | 374 | 1.84 | 5 | 1.9 | 8.1 | 4.2 | 18 | 0.2 | 0.4 | 0.3 | 37 | 0.34 | 0.082 | 39 | 27 | 0.47 | 175 | 0.038 | 1 | 1.39 | 0.012 | 0.09 | 0.3 | 0.03 | 2.8 | 0.1 | 0.05 | 5 | 0.5 |
| 2 | L2-009B | 502373 | 6887780 | 11/1/2009 | 13:21 | B | 60-70 | Continued from above, but increasing greenish colour (lighter brown). Relatively well drained, pebbly silt. Increasing gravel with depth. Bottoms out in boulders/hardpan ~75cm. | 1.6 | 14.2 | 6.9 | 61 | 0.1 | 18 | 6.4 | 389 | 1.88 | 5.7 | 1.9 | 3 | 4.9 | 19 | 0.2 | 0.5 | 0.3 | 38 | 0.36 | 0.081 | 38 | 28 | 0.5 | 173 | 0.043 | 1 | 1.34 | 0.013 | 0.08 | 0.4 | 0.03 | 2.8 | 0.1 | 0.05 | 5 | 0.5 |
| 2 | L2-010A | 502330 | 6887754 | 11/1/2009 | 13:33 | B | 30-40 | Moderate moss/roots and organics (+/- AO), into moderately wet, silty pebbly B after 10cm. Increasingly greenish brown with depth. Extremely wet after 50cm. | 1.1 | 14.8 | 7.9 | 61 | 0.1 | 18.4 | 6.6 | 336 | 2.01 | 9.3 | 1 | 3.6 | 5 | 19 | 0.1 | 0.7 | 0.3 | 36 | 0.35 | 0.087 | 26 | 24 | 0.51 | 166 | 0.047 | 1 | 1.18 | 0.014 | 0.09 | 0.4 | 0.01 | 2.5 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-010B | 502330 | 6887754 | 11/1/2009 | 13:33 | B | 60-70 | Continued from above, Silty B horizon, medium green-brown soil, but increasingly wet and pebbly. Possible bedrock at 70cm. Possible perched water table. | 1 | 20.5 | 6.6 | 58 | 0.1 | 21.3 | 7.1 | 262 | 2.33 | 8.2 | 0.9 | 3.4 | 4.9 | 23 | 0.2 | 0.7 | 0.2 | 51 | 0.42 | 0.093 | 24 | 31 | 0.51 | 178 | 0.064 | 1 | 1.15 | 0.021 | 0.09 | 0.6 | 0.03 | 3.2 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-011 | 502287 | 6887729 | 11/1/2009 | 13:45 | B | 40-50 | Mossy and organic overlayer. Successful holes showed dry, greenish, silty +/- pebbly A mixing with B horizon after 15-20cm (medium brown with minor dark brown spots). Large, rounded and flat stones. Bottoms out in possible boulder field/rock slide ~50cm. Large humps on surface covered by 1-2ft snow. | 1.4 | 13.6 | 8 | 49 | 0.1 | 12.1 | 5.5 | 294 | 1.56 | 5.9 | 1.2 | 0.5 | 1.3 | 14 | 0.1 | 0.4 | 0.9 | 29 | 0.22 | 0.049 | 31 | 18 | 0.22 | 140 | 0.016 | 1 | 1.26 | 0.021 | 0.07 | 0.2 | 0.01 | 1.4 | 0.1 | 0.05 | 5 | 0.5 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | L2-012 | 502243 | 6887703 | 11/1/2009 | 14:00 | B | 45-55 | Moderate organics and medium to dark brown AO to 10cm, followed by 10cm of upper B, then into a silty, pebbly, well drained Medium greenish brown lower B. Bottoms out on bedrock ~55cm. | 1.2 | 12.6 | 7.5 | 52 | 0.1 | 17.1 | 6.1 | 304 | 2 | 8.5 | 0.9 | 0.5 | 4.6 | 17 | 0.2 | 0.5 | 0.4 | 39 | 0.32 | 0.073 | 28 | 25 | 0.48 | 141 | 0.045 | 1 | 1.3 | 0.01 | 0.09 | 0.3 | 0.01 | 2.1 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-013 | 502199 | 6887680 | 11/1/2009 | 14:05 | B | 20-30 | Abundant moss and roots (matted O horizon), then 5-10cm of dry AO/AE. Upper B horizon begins after 15cm, as a silty, pebbly soil. Bottoms out in boulders >30cm. Possible boulder field on a slope, 2ft snow prevents prospecting. | 1.7 | 7.7 | 9.5 | 63 | 0.1 | 9.2 | 4.9 | 631 | 1.54 | 4.5 | 1 | 0.5 | 3.6 | 17 | 0.1 | 0.4 | 0.4 | 22 | 0.22 | 0.047 | 37 | 15 | 0.31 | 98 | 0.024 | 1 | 1.08 | 0.025 | 0.08 | 0.2 | 0.01 | 1.6 | 0.1 | 0.05 | 5 | 0.5 |
| 2 | L2-014 | 502154 | 6887654 | 11/1/2009 | 14:23 | AB | 30-40 | Moss and organic to 5cm, followed by a brief, wet, silty A, and into a medium to dark green brown B, mixed with upper, iron enriched B horizon spots and trace organics. Possible minor clay. Bottoms out on rocks/boulders ~40cm. Possible muddy stream bank. | 0.8 | 16.5 | 15.5 | 82 | 0.2 | 14.9 | 5.5 | 344 | 1.4 | 3.7 | 1.8 | 1.3 | 1.9 | 29 | 0.9 | 0.5 | 0.3 | 28 | 0.38 | 0.07 | 51 | 20 | 0.38 | 225 | 0.019 | 1 | 1.34 | 0.02 | 0.08 | 0.2 | 0.04 | 2.4 | 0.1 | 0.07 | 5 | 0.5 |
| 2 | L2-015 | 502115 | 6887630 | 11/1/2009 | 14:26 | B | 40-50 | Minor organics right into a medium green brown, well drained B horizon consisting of sand and silt. Greener with depth. Bottoms out in boulders ~50cm. Lumpy ground all around- possible permafrost heaving or outwash plane/creek bed. Snow covered. | 1.4 | 18.8 | 11.5 | 79 | 0.1 | 18.3 | 6.9 | 321 | 2 | 9.8 | 1.8 | 2 | 6.2 | 27 | 0.4 | 0.8 | 0.3 | 37 | 0.4 | 0.085 | 26 | 27 | 0.48 | 156 | 0.057 | 1 | 1.14 | 0.018 | 0.09 | 0.4 | 0.02 | 3.1 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-016 | 502067 | 6887604 | 11/1/2009 | 14:34 | B | 20-30 | Moss, followed by light tan-coloured leached AE to 15cm. Medium green brown mottled with dark brown upper silty, B horizon. Bottoms out in boulders. Snowy, lumpy ground - possible boulder field? | 1.3 | 14.1 | 14.8 | 56 | 0.1 | 13.8 | 6 | 460 | 1.81 | 11 | 0.8 | 1.6 | 4 | 25 | 0.3 | 0.9 | 0.4 | 26 | 0.42 | 0.072 | 25 | 18 | 0.41 | 134 | 0.024 | 1 | 1.1 | 0.015 | 0.08 | 0.3 | 0.02 | 2.1 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-017 | 502026 | 6887579 | 11/1/2009 | 14:42 | AB | 20-30 | Organic rich moss and humus to 10cm, into a moist, dark brown silty A/AB horizon to 25cm. Silty with minor grit at depth. Bottoms out on boulders and/or outcrop. Snowy, lumpy boulder field (?) | 0.9 | 19.3 | 10.3 | 61 | 0.1 | 18.1 | 7.2 | 289 | 1.76 | 7.8 | 2.1 | 1.9 | 4.3 | 27 | 0.2 | 0.7 | 0.3 | 35 | 0.45 | 0.076 | 23 | 23 | 0.47 | 171 | 0.05 | 1 | 1.08 | 0.023 | 0.09 | 0.3 | 0.02 | 2.7 | 0.1 | 0.05 | 4 | 0.6 |
| 2 | L2-018 | 501981 | 6887552 | 11/1/2009 | 14:52 | B | 40-50 | Upper B horizon soil from the surface. Silty with rounded pebbles/gravel to 10% (granite +/- volcanics). Lighter brown, sandy layer after 45cm (lower B). Bottoms out on rock/boulders? Very steep boulder field - sample taken at a slight angle to slope, not perpendicular. | 0.3 | 16.7 | 6.2 | 23 | 0.1 | 10.2 | 2.7 | 115 | 0.81 | 2.7 | 1.6 | 0.6 | 2 | 18 | 0.1 | 0.3 | 0.1 | 16 | 0.24 | 0.029 | 15 | 10 | 0.16 | 197 | 0.024 | 1 | 0.62 | 0.036 | 0.04 | 0.2 | 0.02 | 1.7 | 0.1 | 0.05 | 2 | 0.5 |
| 2 | L2-019 | 501941 | 6887526 | 11/1/2009 | 15:02 | B | 25-35 | No organics. Into dark, iron rich upper B horizon from surface. Silty with 10% grit and minor, large rounded gravel. Extremely steep slope. | 1 | 21.3 | 17.4 | 93 | 0.1 | 22.7 | 7.8 | 385 | 2.21 | 11 | 1.2 | 1.9 | 5 | 28 | 0.3 | 0.8 | 0.3 | 40 | 0.43 | 0.069 | 25 | 24 | 0.45 | 322 | 0.029 | 1 | 1.43 | 0.018 | 0.09 | 0.3 | 0.03 | 3.1 | 0.2 | 0.05 | 5 | 0.5 |
| 2 | L2-020 | 501896 | 6887503 | 11/1/2009 | 15:11 | B | 10-20 | 5-10cm of humus and leached AE, then into medium to dark, reddish brown iron rich upper B horizon. Silty with grit and minor gravel. Bottoms out on boulders/bedrock ~20cm. Very steep hillside with boulders. | 0.5 | 8.1 | 6.1 | 30 | 0.1 | 8 | 2.8 | 172 | 1.03 | 3.3 | 0.6 | 0.5 | 2 | 15 | 0.2 | 0.2 | 0.1 | 25 | 0.17 | 0.035 | 14 | 13 | 0.22 | 119 | 0.031 | 1 | 0.81 | 0.02 | 0.05 | 0.2 | 0.02 | 1.4 | 0.1 | 0.05 | 4 | 0.5 |
| 2 | L2-021 | 501853 | 6887479 | 11/1/2009 | 15:18 | B | 20-30 | Mossy organics and humus to 5cm, into medium brown, dry, silty, iron enriched, upper B horizon with local pebbles. Multiple holes hit boulders ~30cm. Steep boulder field. | 1.1 | 13.8 | 11.9 | 63 | 0.1 | 17.3 | 6.9 | 266 | 1.97 | 7.8 | 1.2 | 0.5 | 5.1 | 21 | 0.2 | 0.5 | 0.2 | 39 | 0.3 | 0.072 | 28 | 25 | 0.47 | 208 | 0.043 | 1 | 1.36 | 0.014 | 0.06 | 0.3 | 0.02 | 2.5 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | NA | 509188 | 6880873 | 11/2/2009 | 11:15 | - | - | No sample taken, >1m organics in frozen swamp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | L4-001 | 509144 | 6880850 | 11/2/2009 | 11:20 | B | 15-25 | 5cm moss cover into iron enriched upper B horizon. Medium brown, turning to dark grey/green brown ~25cm (anoxic?) Silty and well drained, but moderately frozen. Permafrost at 25cm. | 0.5 | 17.9 | 7.8 | 50 | 0.1 | 16.4 | 7.2 | 169 | 1.62 | 4.2 | 1 | 0.6 | 4.9 | 20 | 0.2 | 0.5 | 0.2 | 35 | 0.34 | 0.09 | 16 | 25 | 0.48 | 214 | 0.048 | 1 | 1.17 | 0.014 | 0.06 | 0.3 | 0.03 | 2.9 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-002 | 509100 | 6880824 | 11/2/2009 | 11:30 | B | 15-25 | Short organic layer into mixed green greater than red mottled A and upper B horizon to 10cm. Silty greenish brown B horizon increasing 10-20cm. Well drained lower B horizon after 20cm. Permafrost ~25cm. | 0.6 | 22.3 | 8.5 | 53 | 0.1 | 17.1 | 8.9 | 259 | 1.92 | 6.2 | 1.1 | 1.1 | 4.5 | 23 | 0.2 | 0.6 | 0.2 | 35 | 0.35 | 0.091 | 17 | 25 | 0.46 | 248 | 0.039 | 1 | 1.19 | 0.016 | 0.06 | 0.3 | 0.04 | 3.1 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-003 | 509056 | 6880799 | 11/2/2009 | 11:38 | B | 15-25 | Less than 5 cm organics followed by medium reddish brown silty upper B. Increasing greenish brown soil after 15cm (mottled medium to light brown). Well drained and crumbly, with local dark brown spots to 5%. Gritty with gravel size pieces to 15%. Permafrost at 25cm. | 0.6 | 13.9 | 6.4 | 36 | 0.1 | 12.3 | 5.6 | 296 | 1.56 | 9.7 | 0.9 | 1.2 | 2.8 | 19 | 0.1 | 0.4 | 0.1 | 31 | 0.27 | 0.065 | 12 | 18 | 0.34 | 158 | 0.033 | 1 | 0.9 | 0.024 | 0.06 | 0.2 | 0.04 | 1.9 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-004 | 509015 | 6880773 | 11/2/2009 | 11:45 | B | 15-25 | Mottled dark and lighter reddish brown, silty upper B horizon. Moist and gritty. Sand to 25%, gravel to 5%. No pebbles. Bottoms out in permafrost at 25cm. | 0.6 | 13.7 | 5.9 | 30 | 0.1 | 9.2 | 5.2 | 250 | 1.44 | 6 | 0.8 | 0.5 | 1.4 | 19 | 0.1 | 0.2 | 0.1 | 27 | 0.28 | 0.072 | 10 | 15 | 0.25 | 201 | 0.024 | 1 | 0.8 | 0.023 | 0.04 | 0.3 | 0.03 | 1.5 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-005 | 508973 | 6880746 | 11/2/2009 | 11:52 | B | 15-25 | Mottled medium red-brown and dark brown upper B horizon. Moist. Silt, with minor sand and gravel (10% and 5%, resp.) +/- pebbles. Permafrost at 25cm. | 0.4 | 15 | 6.1 | 36 | 0.1 | 11.2 | 4.8 | 269 | 1.31 | 4.6 | 1 | 0.5 | 2.6 | 25 | 0.1 | 0.3 | 0.1 | 26 | 0.45 | 0.079 | 12 | 18 | 0.3 | 262 | 0.033 | 1 | 0.9 | 0.025 | 0.05 | 0.4 | 0.03 | 2 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-006 | 508931 | 6880717 | 11/2/2009 | 11:58 | B | 20-30 | Moss and organics to 5cm, into mottled medium and dark brown, silty to sandy lower A or upper B horizon. Increasing iron enrichment 20-25cm (upper B horizon), with sand and rounded stones to 15% each. Decreasing red colour with depth. Bottoms out in permafrost at 30cm. | 0.8 | 39.4 | 14.6 | 75 | 0.2 | 21.9 | 10.2 | 470 | 2.36 | 10 | 2 | 9.4 | 5.5 | 23 | 0.2 | 0.7 | 0.3 | 48 | 0.46 | 0.087 | 21 | 30 | 0.53 | 335 | 0.037 | 1 | 1.47 | 0.014 | 0.07 | 0.3 | 0.07 | 3.9 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | L4-007 | 508883 | 6880697 | 11/2/2009 | 12:04 | B | 25-35 | Minor moss into mottled medium and dark brown A horizon to 10cm, followed by a medium greenish brown, well drained, silty to sandy (15%) B horizon. Pebbles to 15%. Mixing with gravelly, dark gray to greenish brown soil after 30cm (anoxic?). Permafrost at 35cm. | 0.8 | 43.1 | 13.4 | 69 | 0.1 | 25 | 11.6 | 692 | 2.74 | 12.4 | 1 | 2.9 | 5.8 | 31 | 0.3 | 1.2 | 0.2 | 40 | 0.75 | 0.095 | 20 | 28 | 0.58 | 411 | 0.03 | 2 | 1.24 | 0.015 | 0.12 | 0.2 | 0.1 | 4.4 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-008 | 508842 | 6880671 | 11/2/2009 | 12:11 | B | 40-50 | Moss covered medium greenish brown B horizon to 30cm (?). Well drained, silty, with sand to 15%. Increasing rounded stones to 10% with depth. Medium reddish brown B after 30cm. Bottoms out on permafrost before 50cm. | 1 | 47.8 | 12.2 | 81 | 0.1 | 31.7 | 13.7 | 666 | 2.95 | 17 | 0.8 | 3.4 | 6.7 | 26 | 0.3 | 1.5 | 0.2 | 43 | 0.46 | 0.105 | 21 | 31 | 0.69 | 301 | 0.044 | 1 | 1.33 | 0.016 | 0.19 | 0.2 | 0.12 | 4.5 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-009A | 508797 | 6880643 | 11/2/2009 | 12:19 | B | 40-50 | Minor moss covering medium to dark brown A horizon to 10cm, followed by a well drained, silty, creamy, iron enriched, upper B horizon to 30cm, then into a medium reddish brown silt, with up to 15% sand and 10% gravel. | 0.8 | 22.7 | 9.5 | 49 | 0.1 | 23 | 10.5 | 578 | 2.4 | 9.6 | 1.4 | 1.4 | 7.1 | 20 | 0.1 | 0.8 | 0.2 | 44 | 0.31 | 0.088 | 21 | 31 | 0.55 | 196 | 0.063 | 1 | 1.4 | 0.011 | 0.07 | 0.3 | 0.16 | 3.3 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-009B | 508797 | 6880643 | 11/2/2009 | 12:19 | B | 65-75 | Continued from above, but greener colour with depth, and sand increasing to 40% after 50cm. Low recovery after 75cm (incoherent soil). | 0.9 | 43.4 | 10.9 | 61 | 0.1 | 25.9 | 9.5 | 609 | 2.45 | 12.5 | 1.5 | 4.6 | 7 | 25 | 0.3 | 1 | 0.2 | 39 | 0.38 | 0.116 | 22 | 28 | 0.44 | 325 | 0.055 | 1 | 0.95 | 0.015 | 0.11 | 0.2 | 0.24 | 4.6 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-010A | 508752 | 6880623 | 11/2/2009 | 12:28 | B | 50-60 | Minor moss and organics followed by 5cm of leached AE, and into a medium reddish brown, iron enriched, upper B horizon. Silty with minor clays and creamy to 25cm. After 25cm, there is increasing sand and stones. | 0.6 | 32.6 | 7.8 | 47 | 0.1 | 27.9 | 8 | 543 | 2.13 | 10.4 | 1 | 3.2 | 6.7 | 22 | 0.1 | 0.8 | 0.2 | 34 | 0.32 | 0.106 | 21 | 28 | 0.42 | 339 | 0.047 | 1 | 1.02 | 0.008 | 0.07 | 0.2 | 0.23 | 3.4 | 0.1 | 0.05 | 3 | 0.5 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | L4-010B | 508752 | 6880623 | 11/2/2009 | 12:28 | B | 70-80 | Continued from above, but soil colour lightens slightly after 60cm, and is well drained, well sorted, unconsolidated sand (lower B horizon). No pebbles, but minor gravel. | 1.2 | 43.4 | 13 | 66 | 0.1 | 29.3 | 11.8 | 1076 | 2.76 | 14.7 | 1.2 | 8.5 | 7.5 | 24 | 0.3 | 1.1 | 0.2 | 40 | 0.36 | 0.106 | 30 | 26 | 0.46 | 467 | 0.047 | 1 | 1.03 | 0.013 | 0.12 | 0.2 | 0.35 | 4.3 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-011 | 508707 | 6880602 | 11/2/2009 | 12:39 | B | 40-50 | Mottled medium and dark brown, silty +/- gritty AB horizon. Increasing pebbles and gravel after 20cm, in an unconsolidated, silty to sandy (sand to 40%) and well drained, medium greenish brown B horizon. Minor light tan coloured spots throughout (decomposed local rock fragments?). Hole terminated due to unconsolidated soil. | 0.9 | 34.4 | 12.1 | 63 | 0.1 | 53 | 12.1 | 631 | 2.68 | 14.5 | 1.1 | 3.3 | 7.4 | 24 | 0.2 | 1.2 | 0.2 | 45 | 0.37 | 0.101 | 24 | 61 | 0.8 | 294 | 0.069 | 1 | 1.18 | 0.011 | 0.1 | 0.2 | 0.12 | 4.1 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-012 | 508665 | 6880575 | 11/2/2009 | 12:48 | B | 20-30 | Minor dark brown organics (AO) into medium reddish brown, silty with minor sand, upper B horizon. Into a well drained, medium greenish brown, silty to sandy (20%) lower B horizon, with pebbles to 15%. Relatively unconsolidated. Bottoms out on hardpan/bedrock (?) ~30cm. | 0.7 | 24.2 | 10.4 | 47 | 0.1 | 19.2 | 8 | 415 | 2.15 | 9.9 | 1.5 | 1.8 | 4.9 | 23 | 0.1 | 0.8 | 0.2 | 39 | 0.42 | 0.072 | 22 | 27 | 0.44 | 426 | 0.041 | 1 | 1.34 | 0.01 | 0.09 | 0.2 | 0.1 | 3.3 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-013A | 508625 | 6880544 | 11/2/2009 | 12:55 | B | 30-40 | Minor moss and roots (O) covering a silty medium to dark brown A horizon to apx. 25cm, then into a silty medium green-brown B horizon. Well drained and gritty, with sand to 20% and pebbles to 10%. | 0.7 | 21.6 | 8 | 46 | 0.1 | 20.5 | 8.3 | 384 | 2.04 | 8.6 | 1.4 | 1.2 | 3.1 | 23 | 0.1 | 0.5 | 0.2 | 43 | 0.33 | 0.087 | 22 | 31 | 0.49 | 335 | 0.047 | 1 | 1.33 | 0.012 | 0.06 | 0.3 | 0.06 | 2.9 | 0.1 | 0.05 | 4 | 0.6 |
| 4 | L4-013B | 508625 | 6880544 | 11/2/2009 | 12:55 | B | 60-70 | Continued from above, still well drained and gritty, with sand to 20% and pebbles to 10%. Bottoms out on boulders/bedrock ~70cm. | 0.8 | 33.4 | 10.3 | 59 | 0.1 | 27.5 | 9.1 | 542 | 2.41 | 12 | 1.2 | 2.6 | 6.4 | 26 | 0.2 | 1 | 0.2 | 38 | 0.38 | 0.108 | 22 | 29 | 0.52 | 341 | 0.047 | 1 | 1.13 | 0.014 | 0.1 | 0.2 | 0.16 | 3.8 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-014 | 508580 | 6880524 | 11/2/2009 | 13:06 | B | 45-55 | Frozen & mossy, into silty medium to dark brown, mottled AB horizon by 5cm. Well drained. Lighter brown/tan, silty B horizon starts ~20cm, with sand and local gravel to 25% (including greenish, schisty clasts). Crumbly. Bottoms out on bedrock (?) at 55cm. | 0.8 | 34.9 | 11.7 | 56 | 0.1 | 27.6 | 9.1 | 550 | 2.47 | 12.3 | 1.1 | 3.6 | 6.3 | 32 | 0.2 | 1 | 0.2 | 45 | 0.47 | 0.108 | 21 | 33 | 0.51 | 369 | 0.065 | 1 | 1.16 | 0.013 | 0.12 | 0.2 | 0.24 | 4.7 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-015 | 508537 | 6880496 | 11/2/2009 | 13:14 | B | 25-35 | Mossy organics, then a 5cm leached A horizon into an iron enriched, sandy upper B horizon with large +/- rounded, stones. Dry & unconsolidated. Minor silt, pebbles to 20%, and gravel to 15% (as local volcanics). Minor, rounded cobbles, increasing with depth. hard to break through. Hole caving in ~35cm, with possibility of a hardpan. | 0.9 | 29 | 9.9 | 53 | 0.1 | 11.7 | 12.2 | 962 | 2.14 | 9.1 | 0.6 | 12.8 | 4.1 | 17 | 0.1 | 0.5 | 0.2 | 42 | 0.16 | 0.081 | 12 | 20 | 0.29 | 475 | 0.036 | 2 | 1.23 | 0.013 | 0.11 | 0.2 | 0.19 | 3.1 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-016 | 508492 | 6880474 | 11/2/2009 | 13:25 | B | 20-30 | Frozen solid to 10cm (moss & organics +/- A?), followed by medium to dark reddish brown, creamy, silty, upper B horizon. Mottled with darker brown soil, trace sand and grit to 10%. Permafrost at 30cm. | 0.5 | 29.7 | 6.9 | 46 | 0.1 | 16.3 | 8.5 | 534 | 1.7 | 5.3 | 1.4 | 2.2 | 1.3 | 26 | 0.1 | 0.4 | 0.2 | 36 | 0.39 | 0.085 | 15 | 22 | 0.35 | 593 | 0.029 | 1 | 1.31 | 0.021 | 0.06 | 0.3 | 0.15 | 2.7 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-017 | 508445 | 6880455 | 11/2/2009 | 13:34 | B | 30-40 | Thick moss greater than 5cm deep, followed by dark brown to black organic matter and AO to 10cm, and a leached (AE) layer to ~15cm. Well drained, medium brown, silty/gritty upper B horizon with minor pebbles grades into the lower B horizon ~30cm. Lighter colour and silty with minor local pebbles (volcanics) and gravel to 10 %, sand to 30%. In a valley. | 0.8 | 21 | 8.8 | 58 | 0.1 | 19 | 9.3 | 337 | 2.12 | 9.6 | 1.1 | 1.4 | 5.3 | 35 | 0.2 | 0.9 | 0.2 | 41 | 0.69 | 0.091 | 17 | 25 | 0.48 | 237 | 0.036 | 1 | 1.15 | 0.022 | 0.09 | 0.2 | 0.34 | 3.6 | 0.2 | 0.05 | 3 | 0.5 |
| 4 | L4-018 | 508411 | 6880416 | 11/2/2009 | 13:45 | B | 30-40 | Minor moss and roots (O+/- AO) into a well drained sandy, silty & gravelly B horizon. Minor rounded pebbles. Sand to 20%. Permafrost at 40cm. | 0.9 | 26.7 | 12.3 | 70 | 0.1 | 25.7 | 9.6 | 488 | 2.48 | 13.9 | 1.3 | 1.2 | 7.1 | 39 | 0.2 | 1.3 | 0.2 | 38 | 0.73 | 0.1 | 22 | 27 | 0.47 | 358 | 0.028 | 2 | 1.18 | 0.018 | 0.11 | 0.1 | 0.3 | 4.3 | 0.2 | 0.05 | 3 | 0.5 |
| 4 | L4-019 | 508365 | 6880396 | 11/2/2009 | 13:55 | B | 40-50 | Minor leached AE (2cm), followed by a medium brown, silty B horizon. Well drained, with minor pebbles and grit (sand to 15%). Lighter brown, lower B horizon after 40cm. Silty with rounded stones to 10% and sand to 20%. Well drained. Permafrost at 50cm. | 1 | 30.1 | 15.1 | 70 | 0.1 | 27.7 | 10.4 | 557 | 2.58 | 17.1 | 1.5 | 1.6 | 8.8 | 44 | 0.2 | 1.5 | 0.3 | 43 | 0.52 | 0.084 | 26 | 29 | 0.52 | 428 | 0.034 | 2 | 1.46 | 0.017 | 0.12 | 0.1 | 0.16 | 4.9 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | L4-020A | 508319 | 6880375 | 11/2/2009 | 14:03 | B | 25-35 | 5-10cm leached AE zone into creamy, medium green brown A horizon to 20cm, followed by a vfg mottled upper B, with minor iron enriched spots and pebbles to 10%. | 0.8 | 20.7 | 10 | 47 | 0.1 | 25.7 | 9.2 | 305 | 2.39 | 9.8 | 1.5 | 1.9 | 7.6 | 21 | 0.1 | 0.7 | 0.3 | 47 | 0.38 | 0.076 | 24 | 32 | 0.57 | 211 | 0.064 | 1 | 1.67 | 0.013 | 0.08 | 0.4 | 0.04 | 3.6 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | L4-020B | 508319 | 6880375 | 11/2/2009 | 14:03 | BC | 50-60 | Continued from above, turns to a medium brown B or C after 50cm (sand to 40% +/- Qz frags). Bedrock at 60cm. | 0.8 | 23.3 | 8.9 | 60 | 0.1 | 21 | 8.8 | 465 | 2.6 | 11.4 | 1 | 1.3 | 6.3 | 30 | 0.1 | 1.1 | 0.2 | 43 | 0.52 | 0.078 | 19 | 27 | 0.68 | 278 | 0.047 | 2 | 1.4 | 0.015 | 0.12 | 0.1 | 0.1 | 5 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-021 | 508280 | 6880346 | 11/2/2009 | 14:18 | BC | 50-60 | Moss covered into 2cm leached AE zone, followed by vfg, silty, iron rich, medium red brown upper B. Minor pebbles and mottled, with dark brown spots, as well as minor anoxic spots and bright orange/red spots (to 5%). Grading into lower B (or possible C) horizon after 50cm, with increasing grit, including Qz clasts. Possible bedrock at 60 cm. | 0.9 | 31.4 | 16.9 | 67 | 0.1 | 28.1 | 12.5 | 858 | 2.67 | 15.4 | 1.6 | 2.7 | 8.8 | 31 | 0.1 | 1.4 | 0.2 | 43 | 0.4 | 0.092 | 27 | 33 | 0.5 | 317 | 0.03 | 1 | 1.56 | 0.012 | 0.09 | 0.1 | 0.11 | 5.3 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | L4-022 | 508236 | 6880318 | 11/2/2009 | 14:26 | BC | 50-60 | Moss to 5cm, followed by a mottled medium to dark brown A +/- minor leached AO horizon. Smooth, silty and well drained. Iron enriched (bright orange/red brown) after 30cm, with increasing gravel and sand. Poor soil development. Possible C horizon above bedrock at 60cm. | 1 | 21.8 | 14.8 | 65 | 0.1 | 34.1 | 18.3 | 434 | 2.8 | 17.1 | 1.4 | 1.1 | 7.2 | 23 | 0.3 | 1.5 | 0.3 | 48 | 0.29 | 0.088 | 19 | 35 | 0.47 | 220 | 0.033 | 1 | 2.18 | 0.011 | 0.08 | 0.3 | 0.07 | 3.7 | 0.2 | 0.05 | 4 | 0.6 |
| 4 | L4-023A | 508188 | 6880298 | 11/2/2009 | 14:34 | BC | 50-60 | Moss, AO, and leached AE to 10cm, followed by mottled medium to dark brown A. Silty, creamy and smooth. Abrupt change into dark reddish brown, iron enriched B horizon layer ~45cm. After 50cm, the colour changes to a medium greenish brown. Well drained. | 0.8 | 12.5 | 8.6 | 49 | 0.1 | 17.2 | 7.7 | 232 | 2.24 | 7.4 | 1.2 | 0.5 | 2.4 | 19 | 0.2 | 0.4 | 0.3 | 47 | 0.31 | 0.087 | 16 | 32 | 0.5 | 122 | 0.053 | 1 | 1.49 | 0.009 | 0.06 | 0.4 | 0.02 | 2.2 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | L4-023B | 508188 | 6880298 | 11/2/2009 | 14:34 | B | 75-85 | Continued from above, Gravel to 15% after 60cm, along with local volcanic pebbles and minor, increasing sand. Bedrock at 85cm. | 0.7 | 21.9 | 13.9 | 58 | 0.1 | 22 | 11.2 | 509 | 2.11 | 10.7 | 1.6 | 4.2 | 5.5 | 24 | 0.1 | 1 | 0.2 | 37 | 0.31 | 0.074 | 23 | 26 | 0.45 | 234 | 0.037 | 1 | 1.35 | 0.01 | 0.08 | 0.1 | 0.05 | 3.5 | 0.2 | 0.05 | 3 | 0.5 |
| 4 | L4-024 | 508144 | 6880277 | 11/2/2009 | 14:43 | B | 60-70 | Moss cover into light to medium brown A, gradationally darker with depth. Medium reddish brown upper B horizon after 10cm. Silty and very fine grained. Bright orange/red spots in silt after 40cm (cinnabar?) with rock fragments and pebbles to 15%. Bedrock at 75cm. | 0.9 | 25.5 | 10.8 | 57 | 0.1 | 23.2 | 9.3 | 400 | 2.31 | 10.9 | 1.4 | 2 | 4.7 | 27 | 0.1 | 0.9 | 0.2 | 44 | 0.39 | 0.071 | 19 | 31 | 0.47 | 232 | 0.044 | 1 | 1.39 | 0.014 | 0.08 | 0.2 | 0.06 | 4.2 | 0.2 | 0.05 | 4 | 0.7 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | L4-025 | 508105 | 6880247 | 11/2/2009 | 14:51 | B | 45-55 | Minor moss cover into leached AE to 5cm, then into medium to dark reddish brown silty upper B horizon to 40cm. Gradationally lighter medium red brown, with increasing gravel after 50cm. Well drained, and unconsolidated with depth. Possible bedrock, probable boulder at 55cm. | 0.8 | 25.9 | 12.1 | 50 | 0.1 | 24.5 | 10.9 | 582 | 2.23 | 13.1 | 1.4 | 4.3 | 7.7 | 21 | 0.1 | 1 | 0.2 | 34 | 0.27 | 0.075 | 23 | 28 | 0.45 | 198 | 0.045 | 1 | 1.25 | 0.009 | 0.09 | 0.2 | 0.09 | 3.8 | 0.2 | 0.05 | 3 | 0.5 |
| 4 | L4-026A | 508056 | 6880224 | 11/3/2009 | 9:24 | B | 45-55 | 10cm of leached AE followed by medium brown, silty A or upper B horizon. Increasing grit after 45cm, and extremely iron enriched (upper B). Bright red/orange clumps of soil to 10% (possible cinnabar?) in a well drained, medium to dark red brown silty soil with minor pebbles. | 0.8 | 20.1 | 9.2 | 50 | 0.1 | 25.8 | 9.3 | 350 | 2.33 | 8.7 | 1.5 | 6.5 | 6.8 | 22 | 0.1 | 0.6 | 0.3 | 47 | 0.35 | 0.076 | 19 | 32 | 0.55 | 169 | 0.064 | 1 | 1.49 | 0.013 | 0.07 | 0.3 | 0.02 | 3.6 | 0.2 | 0.05 | 4 | 0.6 |
| 4 | L4-026B | 508056 | 6880224 | 11/3/2009 | 9:24 | B | 80-90 | Continued from above, as a well drained, medium to dark red brown silty B horizon soil with minor pebbles. Max auger depth at 90cm. | 1 | 35.6 | 13.3 | 62 | 0.1 | 28.3 | 9.8 | 525 | 2.47 | 12.7 | 1.9 | 4.8 | 7.7 | 35 | 0.1 | 1.2 | 0.3 | 40 | 0.48 | 0.079 | 24 | 30 | 0.48 | 302 | 0.034 | 2 | 1.22 | 0.014 | 0.08 | 0.1 | 0.12 | 5.5 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-027 | 508010 | 6880202 | 11/3/2009 | 9:35 | B | 20-30 | Into an iron enriched silty upper B horizon from the surface, with up to 15% sand and minor pebbles +/- gravel to 10%. Bottoms out on bedrock at 30cm. Located on a hill/ridge. | 0.7 | 27.6 | 13.2 | 52 | 0.1 | 22 | 12.1 | 368 | 2.51 | 11.3 | 1.3 | 2.3 | 7.2 | 32 | 0.1 | 1.3 | 0.2 | 39 | 0.34 | 0.05 | 22 | 29 | 0.44 | 249 | 0.023 | 1 | 1.56 | 0.013 | 0.08 | 0.1 | 0.08 | 4.5 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-028A | 507965 | 6880181 | 11/3/2009 | 9:41 | B | 40-50 | 5cm frozen moss followed by a medium to dark brown A horizon. Silty and well drained with sand to 15% and minor grit. More granular with depth. Mottled with lighter brown B horizon after 20cm. Creamier texture with depth (less sand content). Abrupt contact with medium brown, lower B horizon ~40cm. Silty, with increasing pebbles (to 10%) and sand (to 20%). Bedrock at 80cm. | 0.8 | 17.2 | 9.1 | 53 | 0.1 | 22.1 | 8.7 | 331 | 2.3 | 7.8 | 1.1 | 0.7 | 5.4 | 19 | 0.1 | 0.6 | 0.2 | 47 | 0.31 | 0.06 | 17 | 31 | 0.49 | 155 | 0.061 | 1 | 1.46 | 0.01 | 0.07 | 0.3 | 0.02 | 3.4 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-028B | 507965 | 6880181 | 11/3/2009 | 9:41 | B | 70-80 | Continued from above, medium brown, lower B horizon. Silty, with pebbles to 10% and sand to 20%. Bedrock at 80cm. | 0.8 | 17.6 | 9.7 | 54 | 0.1 | 20.6 | 9 | 335 | 2.29 | 8.7 | 1 | 3.8 | 4.6 | 22 | 0.2 | 0.7 | 0.3 | 45 | 0.33 | 0.069 | 17 | 30 | 0.53 | 163 | 0.055 | 1 | 1.46 | 0.012 | 0.06 | 0.3 | 0.03 | 3.4 | 0.1 | 0.1 | 5 | 0.5 |
| 4 | L4-029A | 507924 | 6880152 | 11/3/2009 | 9:50 | B | 40-50 | Minor moss (2cm), into medium to dark reddish brown mottled AB soil mix. Silty, creamy, and darker brown with depth. Well drained, with minor sand (to 5%). Lighter, medium brown, silty B horizon after 25cm, increasing sand and grit after 40cm (sand to 20%, pebbles to 10%). | 0.8 | 33 | 10.8 | 62 | 0.1 | 23.9 | 9.1 | 471 | 2.43 | 13.8 | 1.1 | 4.2 | 5.9 | 33 | 0.1 | 1.3 | 0.2 | 35 | 0.41 | 0.088 | 22 | 26 | 0.57 | 267 | 0.038 | 1 | 1.22 | 0.015 | 0.1 | 0.3 | 0.09 | 4.8 | 0.1 | 0.1 | 4 | 0.5 |
| 4 | L4-029B | 507924 | 6880152 | 11/3/2009 | 9:50 | B | 75-85 | Continued from above, but a lighter medium green-brown and stickier B horizon soil after 50cm (clays?). Slightly moist. Bottoms out on gravel ~85cm. | 0.7 | 16 | 9.2 | 43 | 0.1 | 24.2 | 9.8 | 302 | 2.33 | 8.7 | 1.1 | 5.3 | 4.6 | 18 | 0.1 | 0.6 | 0.3 | 40 | 0.26 | 0.088 | 18 | 29 | 0.56 | 140 | 0.053 | 1 | 1.49 | 0.009 | 0.06 | 0.5 | 0.02 | 3 | 0.1 | 0.07 | 4 | 0.5 |
| 4 | L4-030 | 507888 | 6880117 | 11/3/2009 | 9:59 | B | 50-60 | 5-10cm leached AE, followed by medium reddish brown AB horizon. Gradationally more greenish brown with depth. Well drained and silty with sand to 15%. Possible lower B contact at 25cm, and getting gradationally lighter (green/gray tan) at 40cm, with increasing sand to 30%, minor pebbles and grit. Bottoms out on rocks/bedrock ~60cm. | 0.8 | 26.6 | 8.8 | 54 | 0.1 | 19.9 | 7 | 389 | 2.22 | 11.6 | 0.8 | 13.9 | 5.3 | 24 | 0.1 | 1.1 | 0.2 | 31 | 0.31 | 0.07 | 20 | 23 | 0.45 | 206 | 0.042 | 1 | 0.94 | 0.016 | 0.08 | 0.2 | 0.69 | 4.5 | 0.1 | 0.06 | 3 | 0.5 |
| 4 | L4-031A | 507851 | 6880081 | 11/3/2009 | 10:06 | B | 30-40 | 5-10cm leached AE, followed by 10cm dark brown AO. Smooth and creamy vfg silty, iron enriched upper B horizon at 20cm. No sand. Brighter red colour after 30cm. | 0.6 | 12.2 | 7.5 | 42 | 0.1 | 16.4 | 6.7 | 209 | 1.97 | 6 | 1.4 | 2.8 | 2.3 | 17 | 0.1 | 0.4 | 0.3 | 40 | 0.24 | 0.08 | 17 | 28 | 0.46 | 124 | 0.048 | 1 | 1.38 | 0.01 | 0.04 | 0.4 | 0.02 | 2.5 | 0.1 | 0.07 | 5 | 0.5 |
| 4 | L4-031B | 507851 | 6880081 | 11/3/2009 | 10:06 | BC | 80-90 | Continued from above, into a well drained and greenish brown from 50-60 (lower B), followed by a mottled, lighter colour, (medium gray/greenish brown) silty B or C horizon with minor sand (less than 5%). More moist with depth. Max auger depth at 90cm. | 0.7 | 15.5 | 8 | 45 | 0.1 | 19.1 | 8.5 | 290 | 2.04 | 6.5 | 1.7 | 11.1 | 4.1 | 21 | 0.1 | 0.4 | 0.2 | 43 | 0.33 | 0.094 | 19 | 29 | 0.5 | 159 | 0.057 | 1 | 1.33 | 0.015 | 0.05 | 0.4 | 0.02 | 3.5 | 0.1 | 0.07 | 4 | 0.5 |
| 4 | L4-032 | 507800 | 6880068 | 11/3/2009 | 10:15 | B | 50-60 | Dark brown, silty A horizon to 10cm, followed by an increasingly iron enriched, reddish brown upper B horizon to 15cm, then a silty medium greenish brown B horizon. Well drained and silty. Minor grit after 40cm. Sand to 10%. Bedrock at 60cm. | 0.4 | 18.4 | 6.6 | 43 | 0.1 | 21 | 8.1 | 348 | 1.98 | 5 | 1.5 | 2.7 | 6.8 | 20 | 0.1 | 0.4 | 0.3 | 38 | 0.33 | 0.097 | 23 | 27 | 0.55 | 153 | 0.074 | 1 | 1.32 | 0.012 | 0.06 | 0.4 | 0.03 | 3.8 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-033 | 507755 | 6880045 | 11/3/2009 | 10:21 | B | 35-45 | Moss and dark brown organic to 5cm, followed by a light tan to brown leached AE horizon (5-10cm). Into a silty, well drained medium brown upper B horizon to 30cm, followed by a greener version of the B, with increasing sand and gravel to 15% each. Bedrock at 45cm. | 0.4 | 17.4 | 6 | 40 | 0.1 | 15.4 | 6.2 | 248 | 1.69 | 6.1 | 0.7 | 2.2 | 4 | 21 | 0.2 | 0.7 | 0.2 | 32 | 0.32 | 0.089 | 24 | 25 | 0.42 | 145 | 0.055 | 1 | 0.91 | 0.011 | 0.05 | 0.3 | 0.06 | 2.7 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-034 | 507706 | 6880033 | 11/3/2009 | 10:28 | B | 35-45 | Minor moss and organics to 5cm, followed by a dark to medium brown AO. Gradationally lighter medium red brown with depth (upper B). Well drained & silty to 30cm, followed by a grittier, lighter B, with sand to 20%, and minor pebbles up to 10%. Bedrock at 45cm. | 0.7 | 16.5 | 9.1 | 43 | 0.1 | 18.1 | 8.5 | 405 | 2.15 | 9.4 | 0.9 | 2.5 | 4.1 | 17 | 0.2 | 0.8 | 0.2 | 38 | 0.26 | 0.082 | 15 | 25 | 0.44 | 135 | 0.04 | 1 | 1.23 | 0.01 | 0.05 | 0.4 | 0.02 | 2.5 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-035A | 507667 | 6880000 | 11/3/2009 | 10:33 | B | 30-40 | Less than 5cm of moss and minor leached AE, into medium brown A with increasing iron enrichment from 15-25cm (upper B). B horizon is increasingly medium greenish brown, silty, and well drained, with sand to 15%. | 0.6 | 20.8 | 7.4 | 52 | 0.1 | 24.6 | 9.3 | 376 | 2.29 | 8 | 2.3 | 1.8 | 5.9 | 23 | 0.1 | 0.6 | 0.2 | 48 | 0.45 | 0.077 | 20 | 33 | 0.57 | 223 | 0.073 | 1 | 1.34 | 0.017 | 0.07 | 0.3 | 0.03 | 5 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-035B | 507667 | 6880000 | 11/3/2009 | 10:33 | B | 70-80 | Continued from above, with increasing gravel (including local sericitic rock) after 40cm (to 15%). Decreasing green colour after 60cm (Lower B horizon +/- C horizon?). Hardpan at 80cm - compact, gravelly soil. | 0.7 | 30 | 10.5 | 53 | 0.1 | 22.7 | 9.5 | 552 | 2.47 | 13.8 | 1.9 | 4.7 | 6.4 | 22 | 0.2 | 1.2 | 0.2 | 40 | 0.41 | 0.089 | 22 | 28 | 0.55 | 218 | 0.053 | 1 | 1.2 | 0.02 | 0.1 | 0.4 | 0.06 | 5.4 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-036A | 507633 | 6879962 | 11/3/2009 | 10:42 | B | 40-50 | Minor organics and leached AE to 5cm, followed by medium reddish brown, creamy, silty, upper B horizon. Sand to 10%. Well drained. Changes to lower B horizon ~40cm (lighter medium greenish brown). Slight increase in sand and grit. | 0.5 | 15.8 | 7.4 | 45 | 0.1 | 21 | 7.8 | 294 | 2.09 | 7 | 1.4 | 5.1 | 6.6 | 22 | 0.1 | 0.5 | 0.3 | 43 | 0.37 | 0.086 | 22 | 30 | 0.53 | 174 | 0.065 | 1 | 1.34 | 0.011 | 0.06 | 0.4 | 0.02 | 3.6 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-036B | 507633 | 6879962 | 11/3/2009 | 10:42 | B | 80-90 | Continued from above, but lighter green colour with depth. Max depth at 90cm due to auger length. | 0.5 | 23.2 | 8.2 | 47 | 0.1 | 18.8 | 6.9 | 359 | 1.98 | 10.6 | 1.1 | 3.2 | 5.6 | 24 | 0.1 | 1.1 | 0.2 | 31 | 0.39 | 0.103 | 20 | 22 | 0.41 | 176 | 0.04 | 1 | 0.9 | 0.014 | 0.07 | 0.3 | 0.06 | 4 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-037 | 507585 | 6879941 | 11/3/2009 | 10:54 | B | 30-40 | Minor moss and organics to 5cm, into a medium reddish brown, creamy, silty B horizon. Mottled after 30cm. Sand to 5%. Permafrost at 40cm. | 0.7 | 15 | 8.3 | 39 | 0.1 | 18.6 | 7.7 | 239 | 2.22 | 7 | 1.1 | 6.3 | 4 | 15 | 0.1 | 0.4 | 0.3 | 45 | 0.25 | 0.072 | 16 | 30 | 0.49 | 113 | 0.06 | 1 | 1.5 | 0.009 | 0.05 | 0.4 | 0.02 | 3 | 0.1 | 0.05 | 5 | 0.5 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | L4-038 | 507540 | 6879920 | 11/3/2009 | 11:00 | AB | 40-50 | Moss and minor organics, including a dark brown AO to 10cm. Silty, creamy and moderately moist, dark brown, gritty AB to 40cm. Sand to 10% at depth. Permafrost at 50cm. Located in a depression near a frozen swamp/lake (Line 4 helipad). | 0.6 | 14 | 8.6 | 39 | 0.1 | 17 | 6.1 | 162 | 1.77 | 6.1 | 1 | 4 | 1.1 | 21 | 0.1 | 0.4 | 0.3 | 41 | 0.34 | 0.068 | 16 | 27 | 0.44 | 161 | 0.039 | 1 | 1.36 | 0.009 | 0.05 | 0.3 | 0.03 | 1.9 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | L4-039A | 507499 | 6879894 | 11/3/2009 | 11:06 | B | 40-50 | Moss and organics to 15cm, followed by a mottled dark and medium brown soil (AB horizon). Silty and relatively well drained to moist. Possible lower B horizon contact at 35cm. | 0.1 | 12.1 | 9.4 | 51 | 0.1 | 14.2 | 4.3 | 118 | 1.23 | 3.3 | 1.3 | 2.2 | 1.2 | 15 | 0.4 | 0.4 | 0.3 | 41 | 0.24 | 0.135 | 18 | 31 | 0.42 | 101 | 0.04 | 1 | 1.65 | 0.007 | 0.05 | 0.3 | 0.04 | 2.1 | 0.1 | 0.05 | 6 | 0.5 |
| 4 | L4-039B | 507499 | 6879894 | 11/3/2009 | 11:06 | B | 80-90 | Continued from above, but into lighter medium brown B horizon at 55cm, with water table contact (extremely wet). Greenish spots throughout to 5%. Line 4 Helipad Bog (frozen). Max auger depth at 90cm. | 0.7 | 16.7 | 10.1 | 62 | 0.1 | 19.3 | 6.8 | 166 | 2.21 | 11.1 | 1.1 | 3.4 | 4.9 | 18 | 0.4 | 0.8 | 0.3 | 48 | 0.31 | 0.118 | 20 | 30 | 0.52 | 126 | 0.06 | 1 | 1.61 | 0.009 | 0.07 | 0.3 | 0.03 | 3 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | L4-040A | 507454 | 6879868 | 11/3/2009 | 11:17 | B | 50-60 | Medium to dark red-brown silty and moderately drained upper B horizon. Gradationally lighter colour into a gritty mottled B horizon ~30cm. Light medium tan/brown with pebbles/gravel and sand (10-15% each). Greenish B horizon after 50cm mottled with pockets of very dark brown soil (to 5%). | 0.8 | 12.1 | 7.1 | 45 | 0.1 | 14.6 | 6 | 247 | 1.69 | 6.1 | 1.4 | 0.6 | 6.2 | 63 | 0.1 | 0.6 | 0.2 | 39 | 0.51 | 0.096 | 19 | 25 | 0.47 | 242 | 0.077 | 1 | 1.12 | 0.021 | 0.07 | 1.4 | 0.01 | 3.6 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-040B | 507454 | 6879868 | 11/3/2009 | 11:17 | B | 70-80 | Continued from above, but more moist with depth. Turning lighter tan brown towards 80cm +/- angular local, and rounded pebbles to 10%. Max auger depth at 80cm. | 1.9 | 16.7 | 9 | 63 | 0.1 | 13.9 | 4.8 | 384 | 2.02 | 9.2 | 1.6 | 1.5 | 6.5 | 52 | 0.1 | 0.8 | 0.2 | 24 | 0.55 | 0.082 | 27 | 17 | 0.33 | 272 | 0.024 | 1 | 0.95 | 0.018 | 0.09 | 0.1 | 0.05 | 3.8 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-041 | 507412 | 6879836 | 11/3/2009 | 11:26 | B | 50-60 | Minor moss and organics into medium reddish brown, creamy, silty, well drained upper B horizon. Lighter medium greenish brown after 30cm, with sand to 10%. Sand increases with depth after 45cm, where B horizon soil includes local monolithic rhyolite pebbles and iron enriched pockets. Well drained. Bottoms out at 65cmdue to compact gravel or bedrock (possible C horizon?) | 1.3 | 21.8 | 6.7 | 61 | 0.1 | 16.2 | 4.9 | 499 | 2.18 | 7.5 | 1.5 | 2.6 | 5.9 | 25 | 0.1 | 0.8 | 0.2 | 31 | 0.41 | 0.082 | 26 | 24 | 0.43 | 259 | 0.049 | 1 | 1.22 | 0.015 | 0.07 | 0.1 | 0.03 | 4.8 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | L4-042 | 507370 | 6879811 | 11/3/2009 | 11:33 | B | 30-40 | 10cm of leached, tan coloured AE, followed by creamy, silty, medium reddish brown upper B horizon. Minor sand to 5%, increasing after 40cm to 30%, in a lighter coloured, relatively unconsolidated, lower B horizon. Very well drained. Bottoms out on bedrock/boulders ~40cm. | 0.8 | 29.3 | 10.5 | 57 | 0.1 | 27.6 | 13.6 | 494 | 2.76 | 11.1 | 1.1 | 2.6 | 6.7 | 23 | 0.1 | 1.1 | 0.2 | 46 | 0.27 | 0.067 | 25 | 39 | 0.73 | 206 | 0.069 | 1 | 1.83 | 0.014 | 0.13 | 0.2 | 0.05 | 4.2 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-043A | 507327 | 6879786 | 11/3/2009 | 11:39 | B | 40-50 | 10cm of moss and leached AE, followed by medium to dark reddish brown upper B horizon. Silty, and well drained. Contact with lower B ~45cm. Creamy, silty and well drained. Sand to 5%. | 0.6 | 18.8 | 8.9 | 48 | 0.1 | 22.5 | 9.6 | 353 | 2.35 | 7.5 | 1.3 | 1.8 | 7.7 | 19 | 0.1 | 0.6 | 0.4 | 44 | 0.3 | 0.093 | 20 | 30 | 0.59 | 130 | 0.074 | 1 | 1.58 | 0.012 | 0.1 | 0.4 | 0.01 | 3.4 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | L4-043B | 507327 | 6879786 | 11/3/2009 | 11:39 | B | 80-90 | Continued from above, but with increasing grit after 60cm. Local pebbles and iron rich pockets. Bottoms out at max auger depth (90cm). | 0.7 | 31.9 | 10.7 | 60 | 0.1 | 24.9 | 8.8 | 437 | 2.4 | 16.4 | 1.3 | 2.4 | 6.4 | 26 | 0.1 | 1.5 | 0.3 | 39 | 0.39 | 0.079 | 22 | 30 | 0.49 | 233 | 0.046 | 1 | 1.17 | 0.017 | 0.09 | 0.2 | 0.11 | 5.7 | 0.1 | 0.05 | 4 | 0.7 |
| 4 | L4-044 | 507280 | 6879766 | 11/3/2009 | 11:48 | B | 60-70 | 5-10cm of moss and leached AE covering a medium to dark brown, creamy, silty upper B horizon. Mottled, and darker with depth. More reddish brown ~30cm followed by a lower, lighter greenish brown B horizon at 40cm. Sand to 5%. No grit until after 60cm. Bottoms out on compacted soil/boulders at 70cm. | 0.4 | 18.9 | 6.5 | 47 | 0.1 | 25 | 8.6 | 322 | 2.03 | 4.6 | 1 | 1.6 | 7 | 24 | 0.1 | 0.5 | 0.2 | 41 | 0.4 | 0.106 | 22 | 30 | 0.57 | 173 | 0.085 | 1 | 1.41 | 0.018 | 0.06 | 0.4 | 0.01 | 3.5 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-045 | 507235 | 6879745 | 11/3/2009 | 11:56 | BC | 45-55 | Moss and minor leached organics to 5cm, followed by medium to dark reddish brown, upper B horizon. Well drained silt. Gradational contact into lower B/upper C horizon ~40cm, with increasing local grit and pebbles (rhyolite and sericitic rock). Bottoms out on bedrock ~55cm. | 1.3 | 19.6 | 14.5 | 60 | 0.1 | 19.8 | 14 | 603 | 2.8 | 15.3 | 1.2 | 1.5 | 3.9 | 24 | 0.1 | 1.1 | 0.3 | 47 | 0.35 | 0.082 | 18 | 28 | 0.45 | 174 | 0.033 | 2 | 1.52 | 0.011 | 0.09 | 0.1 | 0.06 | 3.3 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | L4-046A | 507192 | 6879715 | 11/3/2009 | 12:02 | AB | 40-50 | Minor moss and organics with a leached AE to 10cm, followed by a greenish to locally reddish, medium brown, silty and well drained upper B. | 0.9 | 18.2 | 9.9 | 59 | 0.1 | 27.1 | 11.1 | 373 | 2.54 | 9 | 1.2 | 1.3 | 6.6 | 22 | 0.2 | 0.7 | 0.3 | 47 | 0.36 | 0.1 | 19 | 34 | 0.59 | 127 | 0.083 | 1 | 1.45 | 0.012 | 0.1 | 0.5 | 0.01 | 3.1 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | L4-046B | 507192 | 6879715 | 11/3/2009 | 12:02 | B | 80-90 | Continued from above, into a more developed B horizon after 50cm, with sand to 5%. Grit and sand increases to 15% each after 60cm. Locally mottled. Max auger depth at 90cm. | 0.8 | 22.4 | 9.5 | 45 | 0.1 | 30.2 | 9.8 | 400 | 2.3 | 10.6 | 1 | 4.2 | 6 | 19 | 0.1 | 1.1 | 0.2 | 37 | 0.32 | 0.113 | 15 | 26 | 0.46 | 106 | 0.055 | 1 | 1.09 | 0.012 | 0.09 | 0.2 | 0.04 | 2.9 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-047 | 507148 | 6879693 | 11/3/2009 | 12:12 | B | 60-70 | Light, leached AE to 10cm, followed by a medium to dark brown, silty, well drained AB horizon to 40cm. B horizon reveals increasing grit and slightly lighter medium brown(+/- green) colour. Sand increases to 25% after 50cm, with 15-20% gravel (rounded, coarse soil). Unconsolidated and dry, therefore sample stops at 70cm. | 1.2 | 19.9 | 14.9 | 67 | 0.1 | 26 | 7.4 | 361 | 2.22 | 17.1 | 1.1 | 1.8 | 5.3 | 26 | 0.2 | 1.5 | 0.2 | 33 | 0.4 | 0.103 | 16 | 23 | 0.37 | 191 | 0.02 | 1 | 0.97 | 0.012 | 0.07 | 0.2 | 0.03 | 2.5 | 0.1 | 0.05 | 3 | 0.5 |
| 4 | L4-048 | 507108 | 6879664 | 11/3/2009 | 12:19 | AB | 30-40 | Minor organics and leached AE to 10cm, followed by a creamy, silty, medium reddish brown upper B horizon. Well drained, with sand to 15%. More developed B horizon after 40cm, with minor rounded grit and gravel to 5%. | 0.8 | 28.4 | 12.4 | 52 | 0.1 | 25 | 9.8 | 463 | 2.6 | 12.8 | 1.2 | 2.8 | 6.1 | 24 | 0.1 | 1.2 | 0.2 | 41 | 0.32 | 0.063 | 21 | 32 | 0.55 | 223 | 0.038 | 1 | 1.48 | 0.011 | 0.08 | 0.2 | 0.07 | 4.3 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | **L4-049A** | 507064 | 6879637 | 11/3/2009 | 12:26 | B? | 40-50 | Minor, very dark brown organic layer to 5cm, followed by a silty medium reddish brown upper B horizon. Well drained, with sand to 5%. Grittier with a lighter colour from 40-50cm (lower B horizon). Increasing sand to 10%, and a greener colour, with local iron enriched red spots (to 5%). | 0.6 | 20.8 | 8.7 | 50 | 0.1 | 25.9 | 9.7 | 353 | 2.41 | 7.4 | 1.3 | 2.7 | 8.6 | 22 | 0.1 | 0.5 | 0.4 | 47 | 0.33 | 0.093 | 22 | 33 | 0.59 | 147 | 0.083 | 1 | 1.53 | 0.014 | 0.08 | 0.4 | 0.02 | 3.3 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | **L4-049B** | 507064 | 6879637 | 11/3/2009 | 12:26 | B | 70-80 | Continued form above, but with increasing grit after 60cm. Bottoms out at max auger depth ~80cm. **(Photo series L4-049)** | 0.7 | 36.2 | 10.6 | 61 | 0.1 | 27.8 | 8.3 | 390 | 2.53 | 14.1 | 1.3 | 14.6 | 6.4 | 35 | 0.1 | 1.3 | 0.2 | 43 | 0.45 | 0.085 | 24 | 35 | 0.54 | 279 | 0.053 | 1 | 1.31 | 0.017 | 0.09 | 0.1 | 0.09 | 5.8 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-050 | 507022 | 6879610 | 11/3/2009 | 12:36 | AB | 20-30 | 5-10cm of moss and organics, and 2cm of leached AE, followed by a creamy, silty, medium brown upper A horizon. Well drained, with sand to 10%. More developed B horizon ~30cm. Boulders/bedrock at 30cm. | 0.8 | 21.1 | 9.4 | 52 | 0.1 | 27.8 | 10.5 | 292 | 2.47 | 9 | 1.2 | 1.2 | 7.9 | 16 | 0.1 | 0.6 | 0.3 | 50 | 0.24 | 0.068 | 17 | 34 | 0.62 | 111 | 0.084 | 2 | 1.81 | 0.015 | 0.09 | 0.4 | 0.02 | 3.7 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | L4-051 | 506978 | 6879589 | 11/3/2009 | 12:46 | B | 50-60 | 5-10cm of mixed dark organics and leached AE, followed by a mottled medium to dark brown silty AB horizon. Sand to 15%. Increasing, minor, local grit after 30cm (lower B horizon). Sand increases to 20%. Unconsolidated. Permafrost (?) at 65cm. | 0.7 | 53.5 | 11 | 63 | 0.1 | 25.1 | 17.5 | 695 | 3.17 | 16.8 | 0.9 | 2.5 | 5.4 | 32 | 0.2 | 1.3 | 0.2 | 58 | 0.55 | 0.091 | 18 | 28 | 0.89 | 310 | 0.045 | 2 | 1.58 | 0.015 | 0.14 | 0.1 | 0.11 | 7.4 | 0.2 | 0.05 | 4 | 0.5 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | L4-052 | 506937 | 6879561 | 11/3/2009 | 12:54 | B | 30-40 | Dark organics to 5cm, followed by a creamy, silty, medium brown upper B horizon. Well drained, with sand to 10%. Minor proximal and distal gravel increasing after 30cm (lower B). Bottoms out on bedrock/boulders ~45cm. | 0.6 | 19.9 | 9 | 49 | 0.1 | 25.9 | 8.7 | 336 | 2.33 | 8.5 | 1.3 | 1.2 | 6.9 | 27 | 0.1 | 0.5 | 0.3 | 48 | 0.41 | 0.065 | 23 | 35 | 0.53 | 236 | 0.07 | 1 | 1.54 | 0.016 | 0.07 | 0.3 | 0.03 | 4.8 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | L4-053 | 506895 | 6879533 | 11/3/2009 | 13:00 | B | 25-35 | 5-10cm dark organics mixed with leached AE. Greenish brown, silty A horizon to 15 cm, then into a reddish, medium brown upper B horizon. Well drained. Grit & gravel begins after 25cm (to 20%). Boulder lag +/- permafrost at 30cm. | 0.8 | 32.2 | 13.5 | 66 | 0.1 | 27.8 | 9.4 | 505 | 2.66 | 15.2 | 1.2 | 9 | 7.2 | 31 | 0.1 | 1.3 | 0.3 | 41 | 0.47 | 0.089 | 24 | 31 | 0.58 | 262 | 0.04 | 2 | 1.33 | 0.014 | 0.09 | 0.1 | 0.08 | 4.9 | 0.1 | 0.05 | 4 | 0.5 |
| 4 | L4-054 | 506847 | 6879517 | 11/3/2009 | 13:06 | B | 10-20 | 2-5cm of dark brown organics and a minor leached AE layer, into a medium reddish brown, silty, well drained upper B horizon. Relatively unconsolidated, with sand to 20%. Bottoms out on gravel +/- weak bedrock ~20cm. Multiple hole attempted. | 0.8 | 30 | 8.8 | 46 | 0.1 | 28.2 | 10.4 | 333 | 2.48 | 10.2 | 1 | 1.7 | 5.6 | 21 | 0.2 | 0.8 | 0.3 | 50 | 0.31 | 0.075 | 16 | 35 | 0.58 | 186 | 0.068 | 2 | 1.66 | 0.01 | 0.06 | 0.2 | 0.02 | 3.7 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | L4-055A | 506798 | 6879500 | 11/3/2009 | 13:13 | B | 50-60 | 5-10cm of dark organics and light, leached, AE. Into a medium reddish brown AB mix to 15cm, then a gritty, silty and sandy upper B horizon with iron enriched spots to 5% (Mottled B). Sand and gravel to 15% each. Well drained. | 0.8 | 34.5 | 16.4 | 70 | 0.1 | 27.6 | 13.3 | 589 | 2.85 | 16.8 | 1.7 | 2.9 | 7.8 | 36 | 0.1 | 1.6 | 0.3 | 44 | 0.4 | 0.061 | 26 | 33 | 0.53 | 353 | 0.025 | 1 | 1.61 | 0.013 | 0.1 | 0.1 | 0.08 | 5.7 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | L4-055B | 506798 | 6879500 | 11/3/2009 | 13:13 | B | 80-90 | Continued from above, but more moist, with increasing silt +/- clay after 60cm. Back into a dry greenish brown silt & sand (to 40%) after 70cm. Max auger depth at 90cm. | 0.9 | 39.4 | 13.5 | 81 | 0.1 | 33.3 | 13.2 | 669 | 3.01 | 18.9 | 1.1 | 2.1 | 7.7 | 48 | 0.2 | 1.7 | 0.3 | 45 | 1.17 | 0.102 | 22 | 34 | 0.73 | 302 | 0.046 | 1 | 1.32 | 0.018 | 0.15 | 0.1 | 0.11 | 5 | 0.2 | 0.05 | 4 | 0.5 |
| 4 | L4-056 | 506756 | 6879474 | 11/3/2009 | 13:22 | BC | 45-55 | Dark organics and leached AE to 10cm. , into a mottled reddish brown and lesser dark brown upper B horizon. Silty and well drained. Minor grit developing after 20cm. More developed B after 30 cm. Still creamy, silty, and well drained. Possible bedrock at 55cm. Schist gravel and micas present (possible C horizon). | 0.6 | 26.9 | 9.1 | 57 | 0.1 | 31 | 10 | 447 | 2.68 | 8.2 | 1.7 | 2.2 | 10.3 | 31 | 0.1 | 0.7 | 0.3 | 53 | 0.47 | 0.097 | 28 | 40 | 0.67 | 254 | 0.093 | 1 | 1.56 | 0.027 | 0.08 | 0.4 | 0.02 | 6 | 0.2 | 0.05 | 5 | 0.5 |
| 4 | L4-057 | 506714 | 6879448 | 11/3/2009 | 13:31 | B | 40-50 | Mix of dark organics and light, leached AE to 10cm, followed by a mottled dark and medium brown creamy silty A Horizon. Gradational contact into a slightly moist reddish brown, iron enriched upper B horizon to 20cm, followed by a medium brown well developed B. Sand to 5%. Bottoms out on bedrock +/- permafrost at 50cm. | 0.8 | 13.8 | 8.6 | 51 | 0.1 | 24.3 | 11 | 390 | 2.5 | 7.4 | 1.4 | 6.4 | 7.7 | 24 | 0.1 | 0.5 | 0.3 | 47 | 0.4 | 0.11 | 21 | 34 | 0.63 | 160 | 0.082 | 1 | 1.64 | 0.011 | 0.09 | 0.6 | 0.01 | 3.2 | 0.2 | 0.05 | 5 | 0.6 |
| 4 | L4-058A | 506678 | 6879412 | 11/3/2009 | 13:37 | B | 50-60 | Minor dark organics and leached AE to 5cm, into a mottled medium to light greenish brown and dark brown A horizon. Wet and silty, with increasing iron enrichment after 40cm (B horizon). Still minor dark brown patches to 5%. | 0.6 | 21.6 | 9.2 | 59 | 0.1 | 28.1 | 10.4 | 343 | 2.38 | 8.6 | 1.4 | 4.3 | 6.2 | 28 | 0.1 | 0.7 | 0.3 | 48 | 0.58 | 0.098 | 20 | 34 | 0.58 | 236 | 0.07 | 1 | 1.44 | 0.017 | 0.07 | 0.4 | 0.07 | 4.2 | 0.1 | 0.05 | 5 | 0.6 |
| 4 | L4-058B | 506678 | 6879412 | 11/3/2009 | 13:37 | B | 80-90 | Continued from above as a silty lower B horizon. Max auger depth at 90cm. | 0.8 | 29 | 11.9 | 71 | 0.1 | 29.5 | 11.5 | 451 | 2.57 | 12.6 | 1.4 | 1.4 | 6.8 | 36 | 0.1 | 1.2 | 0.3 | 46 | 0.62 | 0.092 | 21 | 35 | 0.58 | 280 | 0.055 | 1 | 1.46 | 0.016 | 0.1 | 0.3 | 0.08 | 4.7 | 0.1 | 0.05 | 5 | 0.5 |
| 4 | L4-059 | 506631 | 6879392 | 11/3/2009 | 13:46 | BC | 65-75 | Dark brown to black frozen organics with minor leached AE, and a medium to dark brown AO (5%) to 10cm. Wet (boggy), medium brown AB horizon to 45cm, followed by local iron enriched spots to 1%. Lighter gray/green with depth (lower B or possible upper C horizon). | 0.6 | 23.3 | 9.4 | 63 | 0.1 | 29.2 | 10.4 | 270 | 2.33 | 8 | 1.1 | 1.9 | 7.6 | 35 | 0.2 | 0.7 | 0.3 | 48 | 0.71 | 0.111 | 21 | 36 | 0.6 | 240 | 0.083 | 1 | 1.4 | 0.022 | 0.09 | 0.5 | 0.03 | 4 | 0.1 | 0.05 | 5 | 0.6 |
| 5 | L5-001 | 508201 | 6880083 | 11/4/2009 | 10:50 | B | 40-50 | Mixed OA and AE to 5cm, followed by a dry, silty AB horizon. Medium brown, mottled with dark brown and reddish brown spots (patchy iron enrichment). Contact with lower B at 35cm. Medium greenish brown. Sand to 20%. Minor local grit and pebbles (reddish pink) to 10%. Bottoms out at 50cm on bedrock(?). | 0.8 | 22.4 | 10.9 | 53 | 0.1 | 24.1 | 9.8 | 416 | 2.51 | 12.1 | 1.2 | 2.3 | 6.6 | 28 | 0.1 | 1.1 | 0.2 | 44 | 0.35 | 0.069 | 20 | 31 | 0.51 | 205 | 0.049 | 1 | 1.53 | 0.011 | 0.08 | 0.2 | 0.06 | 3.8 | 0.2 | 0.05 | 4 | 0.5 |
| 5 | L5-002A | 508253 | 6880102 | 11/4/2009 | 11:02 | B | 40-50 | Greater than 10cm of AE and minor organics followed by a silty medium reddish brown, iron enriched upper B horizon to 20cm, grading into a bright orange/reddish-brown, iron rich B. Silty and well drained, with sand to 10%. Mottled with medium brown soil to 10%. | 1.2 | 10.2 | 29.2 | 75 | 0.1 | 4.9 | 2.3 | 153 | 2.92 | 7.3 | 0.9 | 0.5 | 15.4 | 63 | 0.1 | 0.4 | 0.6 | 14 | 0.74 | 0.036 | 15 | 8 | 0.15 | 121 | 0.001 | 7 | 1.32 | 0.015 | 0.03 | 0.1 | 0.03 | 1.3 | 0.1 | 0.05 | 3 | 0.5 |
| 5 | L5-002B | 508253 | 6880102 | 11/4/2009 | 11:02 | B | 80-90 | Continued from above, but sticky (+/- minor clay?), followed by a minor mixing with a lighter brown, lower B horizon soil, with less than 5% very dark brown (+/- organic?) spots. Soil turns to very dark brown/black, silty, sandy (organics?) with minor grit after 70cm. Max auger depth at 90cm. | 5.9 | 22.5 | 126 | 182 | 0.2 | 11.7 | 8.9 | 388 | 1.36 | 8.2 | 11.7 | 1.8 | 40.2 | 95 | 0.8 | 1.2 | 1 | 18 | 1.2 | 0.023 | 42 | 6 | 0.13 | 244 | 0.043 | 1 | 0.79 | 0.014 | 0.06 | 0.1 | 0.07 | 5.3 | 0.2 | 0.18 | 3 | 1.2 |
| 5 | L5-003A | 508291 | 6880129 | 11/4/2009 | 11:15 | B | 40-50 | Dark brown OA to 5 cm followed by a silty, well drained, medium greenish brown A horizon to 35cm. Increasing iron enrichment in a reddish brown upper B horizon, with local and rounded pebbles and gravel to 20%. Sand to 10%. Bright reddish orange pockets/nodules ( cinnabar?) throughout to 5%. | 0.9 | 35.8 | 13.3 | 67 | 0.1 | 27.7 | 11.2 | 525 | 2.91 | 14.9 | 1.4 | 1.6 | 8.6 | 42 | 0.1 | 1.3 | 0.3 | 40 | 0.56 | 0.074 | 27 | 31 | 0.59 | 433 | 0.025 | 3 | 1.55 | 0.014 | 0.1 | 0.1 | 0.12 | 5.7 | 0.2 | 0.05 | 4 | 0.5 |
| 5 | L5-003B | 508291 | 6880129 | 11/4/2009 | 11:15 | B | 75-85 | Continued from above, but in contact with very dark brown (+/- organic?) layer ~75-80cm. Max Auger depth at 85cm. | 1 | 35.1 | 40.5 | 78 | 0.1 | 29.7 | 10.5 | 610 | 2.66 | 22.1 | 1.9 | 1.7 | 9.5 | 62 | 0.3 | 2.3 | 0.3 | 40 | 0.93 | 0.08 | 25 | 31 | 0.53 | 489 | 0.012 | 2 | 1.34 | 0.023 | 0.1 | 0.1 | 0.32 | 6.2 | 0.2 | 0.05 | 4 | 0.6 |
| 5 | L5-004A | 508333 | 6880151 | 11/4/2009 | 11:25 | B | 40-50 | Minor AE to 5cm, followed by a medium reddish brown, well drained, silty upper B horizon. Gritty after 15cm, with local pebbles to 10%. Greener brown with depth, and increasing clay after 20cm (sticky). Decreasing pebbles and relatively anoxic (medium grayish greenish brown) after 25cm. Sand 5-10%. Mottled with bright reddish orange spots towards lower contact with very dark brown to black (organics) at 50cm. | 0.9 | 30.7 | 15.6 | 71 | 0.1 | 23.9 | 16.1 | 790 | 2.47 | 13.5 | 1.4 | 2.4 | 7.3 | 34 | 0.2 | 1 | 0.2 | 34 | 0.37 | 0.067 | 23 | 26 | 0.43 | 306 | 0.017 | 1 | 1.43 | 0.018 | 0.09 | 0.1 | 0.06 | 3.4 | 0.1 | 0.05 | 4 | 0.5 |
| 5 | L5-004B | 508333 | 6880151 | 11/4/2009 | 11:25 | B | 70-80 | Continued from above. Dark brown to black (organics?) after 50cm, with minor, local, grit. Hardpan/bedrock at 80cm. | 3.5 | 20.7 | 31.7 | 96 | 0.2 | 31.3 | 8 | 475 | 1.05 | 6.8 | 4.5 | 0.7 | 14.8 | 71 | 0.4 | 1.2 | 0.5 | 16 | 1.23 | 0.024 | 48 | 14 | 0.19 | 715 | 0.026 | 1 | 1 | 0.054 | 0.08 | 0.1 | 0.09 | 3.4 | 0.2 | 0.12 | 3 | 0.6 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | L5-005 | 508376 | 6880177 | 11/4/2009 | 11:36 | BC | 70-80 | 5cm OA/AE followed by a well drained, silty, medium reddish brown upper B horizon. Into a greener medium brown, lower B around 30cm, mottled with dark brown to black soil and reddish orange spots. Local gravel to 15%, sand to 15%. Mottled with creamy light tan soil after 60cm. Still silty, with fine sand to 30%. Minor quartz and sedimentary pebbles (decomposing bedrock/C horizon?) to 10%. Max auger depth at 80cm. | 1.2 | 27.7 | 18.3 | 87 | 0.1 | 21.5 | 8.8 | 500 | 2.26 | 13.2 | 2 | 2.1 | 9.1 | 46 | 0.2 | 1.2 | 0.3 | 32 | 0.69 | 0.068 | 24 | 24 | 0.38 | 366 | 0.01 | 1 | 1.22 | 0.016 | 0.1 | 0.1 | 0.11 | 4.8 | 0.2 | 0.05 | 4 | 0.5 |
| 5 | L5-006 | 508420 | 6880201 | 11/4/2009 | 11:45 | BC | 60-70 | Minor, dark organics to 5cm, followed by a minor reddish brown AB horizon, and an iron enriched dark to reddish brown upper B horizon at 15cm. Local grit and gravel to 30%. Well drained. Light to medium orange brown B or C horizon, mottled with dark brown soil to 10%. Still silty with minor, local, pebbles. Redness decreases with depth. Possible permafrost at 70 cm. | 1.4 | 21.9 | 11.6 | 67 | 0.1 | 23 | 13 | 584 | 3.41 | 5.9 | 2.1 | 0.5 | 6.4 | 44 | 0.2 | 0.2 | 0.1 | 69 | 0.69 | 0.149 | 16 | 52 | 0.12 | 129 | 0.003 | 1 | 0.86 | 0.018 | 0.09 | 0.1 | 2.31 | 15 | 0.2 | 0.05 | 3 | 0.7 |
| 5 | L5-007A | 508465 | 6880226 | 11/4/2009 | 11:55 | B | 40-50 | Dark brown and tanned leached AE for 5cm, into reddish brown, silty, upper B horizon. Well drained. After 30cm, lighter medium tan colour, mottled with red spots and very dark brown organic(?) patches (to less than 5%). | 4.3 | 13.3 | 22.3 | 93 | 0.1 | 12 | 5.6 | 296 | 2.01 | 18.4 | 2.2 | 0.5 | 6.6 | 60 | 0.2 | 0.3 | 0.3 | 14 | 0.49 | 0.015 | 10 | 11 | 0.06 | 453 | 0.001 | 1 | 0.66 | 0.012 | 0.12 | 0.1 | 10.46 | 7.2 | 0.5 | 0.11 | 2 | 0.5 |
| 5 | L5-007B | 508465 | 6880226 | 11/4/2009 | 11:55 | B | 70-80 | Continued from above, but more moist after 55cm, and wet after 60cm, with local pebbles. Medium orange-brown. Water table at 80cm. Stinky soil. Located in a depression/frozen bog. | 6.1 | 18.2 | 27.6 | 78 | 0.1 | 21.6 | 7.9 | 126 | 3.49 | 63.3 | 2.3 | 0.5 | 5.5 | 81 | 0.1 | 0.7 | 0.3 | 14 | 0.59 | 0.008 | 4 | 10 | 0.08 | 408 | 0.001 | 2 | 0.7 | 0.032 | 0.21 | 0.1 | 15.38 | 7.3 | 1.5 | 0.32 | 3 | 0.5 |
| 5 | L5-008 | 508508 | 6880250 | 11/4/2009 | 12:05 | B | 55-65 | Minor moss and organics into a silty, bright red to medium brown, iron enriched, upper B horizon. Well drained. Gritty (increasing with depth). Slightly lighter pinkish red colour after 50cm (C horizon?). Local pebbles of schisty material, pinkish brown volcanis, and sericite chlorite fragments) to 40% (took pebbles as hand sample - see photos). Bottoms out on compact gravel/large cobbles and or bedrock? Possible similar outcrop 25m form sample station (up the hill between station 8 and 9) either a massive, weathered/leached volcanic (rhyolite) or a schist?. | 1.3 | 29.6 | 19.7 | 53 | 0.1 | 18.5 | 10.4 | 1981 | 3.21 | 21.1 | 1.1 | 17.2 | 5.2 | 38 | 0.1 | 1.7 | 0.2 | 48 | 0.21 | 0.105 | 17 | 31 | 0.42 | 898 | 0.037 | 1 | 1.74 | 0.009 | 0.14 | 0.4 | 0.44 | 4.3 | 0.1 | 0.05 | 5 | 0.5 |
| 5 | L5-009 | 508552 | 6880273 | 11/4/2009 | 12:21 | B | 20-30 | 2cm of OA and AE into a medium reddish brown, silty upper B horizon. Changes to a slightly greener colour after 20cm (lower B). Sand to 5%, minor local clasts. Bedrock at 30cm. Located on a hill with outcrop nearby. | 0.6 | 25.4 | 9 | 52 | 0.1 | 29.6 | 11.5 | 347 | 2.74 | 8.8 | 1.7 | 5.5 | 10.2 | 23 | 0.1 | 0.7 | 0.3 | 56 | 0.29 | 0.065 | 22 | 40 | 0.62 | 225 | 0.089 | 1 | 1.92 | 0.013 | 0.08 | 0.4 | 0.08 | 4.2 | 0.2 | 0.05 | 6 | 0.5 |
| 5 | L5-010 | 508596 | 6880299 | 11/4/2009 | 12:29 | B | 20-30 | Minor dark brown organics an trace AE into a medium red brown, silty upper B horizon to 20cm. Changing to a slightly greener, medium brown and well drained, creamy, silty lower B horizon with minor gravel and grit (to 10%). Sand to 15%. Bedrock at 30cm. Located on a hill. | 0.7 | 36.7 | 8.8 | 53 | 0.1 | 30.5 | 11.9 | 490 | 2.86 | 19.6 | 1.2 | 4.8 | 6.5 | 30 | 0.1 | 0.8 | 0.2 | 58 | 0.35 | 0.057 | 19 | 41 | 0.68 | 341 | 0.081 | 1 | 1.92 | 0.014 | 0.08 | 0.2 | 0.13 | 5.3 | 0.2 | 0.05 | 6 | 0.5 |
| 5 | **L5-011A** | 508640 | 6880323 | 11/4/2009 | 12:37 | B | 40-50 | 5 cm of dark organics and a minor leached AE, followed by a medium to dark red brown, well drained, silty, iron enriched upper B horizon to 20cm. After 20cm, the soil is slightly lighter and less red in colour, but still a silty B with minor, rounded (distal) stones (green) and local gravel. Mottled with a lighter, tan coloured soil after 35cm. Multiple holes attempted, some reaching a C horizon after 50cm, as a sandy, light tan/pink layer, followed by a shiny, light grey sericite rich later at 70cm. | 0.7 | 48.6 | 9.6 | 65 | 0.1 | 23.1 | 10.6 | 507 | 2.69 | 12.3 | 1 | 2.9 | 5.7 | 30 | 0.1 | 0.9 | 0.2 | 43 | 0.42 | 0.102 | 20 | 28 | 0.56 | 455 | 0.053 | 2 | 1.26 | 0.012 | 0.15 | 0.2 | 0.27 | 4.7 | 0.1 | 0.05 | 4 | 0.5 |
| 5 | **L5-011B** | 508640 | 6880323 | 11/4/2009 | 12:37 | C | 70-80 | Continued from above as a light grey sericite rich C horizon. Decomposed local rock/schist. Photos taken (Photo series L5-011). Max auger depth at 80cm. | 0.2 | 25 | 3.8 | 30 | 0.1 | 2.6 | 8 | 989 | 2.55 | 3.5 | 0.3 | 2.4 | 2.2 | 21 | 0.1 | 0.1 | 0.1 | 14 | 0.14 | 0.057 | 10 | 5 | 0.06 | 373 | 0.013 | 1 | 0.28 | 0.003 | 0.13 | 0.1 | 0.05 | 3.4 | 0.1 | 0.05 | 1 | 0.5 |
| 6 | L6-001 | 508732 | 6880144 | 11/4/2009 | 9:25 | B | 60-70 | Minor moss and leached AE cover to 5cm, followed by a silty, medium greenish brown AB horizon. Well drained. Changes to slightly lighter, medium brown B horizon ~40cm, with schisty (+/- green) pebbles, and sand to 20%. Bottoms out on compact soil/rocks at 70cm. | 0.6 | 43.3 | 7.3 | 51 | 0.1 | 25.2 | 14.4 | 748 | 2.89 | 8.7 | 1.1 | 1.2 | 6.5 | 39 | 0.1 | 0.8 | 0.2 | 69 | 0.43 | 0.068 | 29 | 56 | 1.14 | 587 | 0.103 | 1 | 1.71 | 0.014 | 0.19 | 0.2 | 1.04 | 5.6 | 0.1 | 0.05 | 5 | 0.5 |
| 6 | L6-002 | 508684 | 6880125 | 11/4/2009 | 9:28 | B | 50-60 | Minor organic cover for 2cm, then into a medium reddish brown, silty, upper B horizon. Into a lighter, more developed, well drained B at 25cm, with increasing grit +/- sand to 20% and minor pebbles (including Qz and schist). Medium red/pinkish brown~40cm. Bottoms out on bedrock ~60cm. | 0.5 | 27.5 | 7.8 | 56 | 0.1 | 17.8 | 9.1 | 611 | 2.49 | 11.7 | 0.9 | 18 | 5.7 | 32 | 0.1 | 0.7 | 0.1 | 35 | 0.29 | 0.077 | 22 | 21 | 0.39 | 818 | 0.043 | 1 | 0.97 | 0.011 | 0.13 | 0.1 | 2.91 | 4.2 | 0.1 | 0.05 | 3 | 0.5 |
| 6 | L6-003 | 508640 | 6880102 | 11/4/2009 | 9:33 | B | 35-45 | 5-10 cm of organics and leached AE, followed by a medium brown, silty A horizon, and the B horizon starts ~20-30cm. Creamy and well drained silty soil, with increasing grit. Sand to 10%. Pebbles (+/- local) to 10%. Lighter, medium green brown with depth. Hardpan at 45cm (bedrock?). | 0.7 | 25.3 | 8.8 | 49 | 0.1 | 28.9 | 11.1 | 394 | 2.61 | 9.8 | 1.3 | 2.6 | 8.5 | 22 | 0.1 | 0.8 | 0.2 | 50 | 0.32 | 0.077 | 22 | 34 | 0.63 | 408 | 0.074 | 1 | 1.69 | 0.014 | 0.09 | 0.3 | 0.06 | 3.8 | 0.2 | 0.05 | 5 | 0.5 |
| 6 | L6-004 | 508597 | 6880077 | 11/4/2009 | 9:39 | B | 35-45 | Minor OA/AE to 8cm, then into a medium brown, well drained, silty AB horizon. Gritty with minor micas ~25cm (B horizon). Sand to 15%, Pebbles to 10% (possible amphibole schist). Lighter medium green brown. Hardpan at 45cm. | 0.7 | 27.9 | 9.5 | 53 | 0.1 | 30 | 11 | 521 | 2.68 | 12.8 | 1.6 | 5.8 | 8.1 | 30 | 0.1 | 0.9 | 0.3 | 50 | 0.39 | 0.087 | 24 | 38 | 0.65 | 295 | 0.079 | 1 | 1.75 | 0.014 | 0.11 | 0.3 | 0.1 | 4.4 | 0.2 | 0.05 | 5 | 0.7 |
| 6 | L6-005 | 508552 | 6880053 | 11/4/2009 | 9:44 | B | 30-40 | Dark OA and light AE to 10cm, followed by medium to dark brown A horizon. Silty, relatively well drained, lighter reddish brown upper B horizon ~25cm. Sand to 15%, pebbles as micaceous fragments and rounded stones to 15%. Hardpan at 40cm. | 0.8 | 24 | 8.5 | 48 | 0.1 | 24.8 | 12.7 | 491 | 2.52 | 13.3 | 0.9 | 5.1 | 5.6 | 24 | 0.1 | 0.8 | 0.2 | 47 | 0.29 | 0.076 | 16 | 30 | 0.6 | 210 | 0.073 | 1 | 1.5 | 0.01 | 0.12 | 0.3 | 0.05 | 3.2 | 0.1 | 0.05 | 4 | 0.5 |
| 6 | L6-006 | 508508 | 6880030 | 11/4/2009 | 9:49 | B | 35-45 | Light and leached AE to 10cm, followed by a medium red-brown, unconsolidated, well drained, silty upper B horizon. Sand to 20%. Increasing orange/red colour ~20cm. Local (proximal) pebbles, starting ~25cm, turning more medium greenish brown and silty, with minor iron enriched red spots, local rusty volcanics, schisty fragments and distal rounded gravel. Hardpan at 45cm. | 0.8 | 38.7 | 9.7 | 58 | 0.1 | 28.9 | 11.8 | 738 | 3.06 | 15.5 | 1.3 | 3.7 | 6.3 | 63 | 0.1 | 0.8 | 0.2 | 56 | 0.5 | 0.075 | 22 | 37 | 0.53 | 603 | 0.031 | 2 | 1.65 | 0.021 | 0.11 | 0.1 | 2.05 | 7.8 | 0.2 | 0.05 | 5 | 0.5 |

| LINE | Sample Number | UTM_E NAD83 | UTM_N NAD83 | DATE | TIME | Horizon Sampled | Sample Depth_cm | Sample_Description | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | L6-007 | 508470 | 6879996 | 11/4/2009 | 9:54 | BC | 20-30 | Dark OA and light AE to 10cm, Then into reddish brown silty upper B horizon with increasing grit, gravel and minor cobbles after 20cm. Gravel as angular local fragments of schist and rhyolite. Hardpan or possible bedrock ~30cm. Located on a hill. | 0.9 | 15 | 7.3 | 45 | 0.1 | 18.6 | 6.7 | 186 | 2.23 | 8.8 | 0.7 | 1.8 | 4.8 | 19 | 0.2 | 0.6 | 0.3 | 52 | 0.2 | 0.071 | 13 | 27 | 0.36 | 116 | 0.07 | 1 | 1.37 | 0.015 | 0.07 | 0.3 | 0.1 | 2.2 | 0.1 | 0.05 | 6 | 0.5 |
| 6 | L6-008 | 508421 | 6879980 | 11/4/2009 | 10:01 | B | 40-50 | 5-8cm of OA and AE, followed by a medium reddish brown, silty and well drained upper B horizon. Sand to 15%. Increasing grit and local material after 25cm (lower B). Sand to 20%. Slightly lighter medium brown at 50cm, followed by hardpan/bedrock. | 1.2 | 38 | 22.2 | 69 | 0.1 | 33.4 | 16.1 | 845 | 3.56 | 26.3 | 1.7 | 2.7 | 8.3 | 38 | 0.3 | 3 | 0.2 | 54 | 0.46 | 0.106 | 25 | 38 | 0.66 | 375 | 0.043 | 1 | 1.88 | 0.017 | 0.14 | 0.3 | 0.13 | 5.3 | 0.2 | 0.05 | 5 | 0.5 |
| 6 | L6-009 | 508380 | 6879952 | 11/4/2009 | 10:07 | B | 40-50 | Minor OA/AE to 5cm then a medium reddish brown upper B horizon. Into a silty gritty B (sand to 15%) after 25cm. Medium greenish brown with pebbles and stones as rounded, distal, material. Hardpan at 50cm (boulders/bedrock). Located on a hillside. | 0.8 | 30.7 | 11.3 | 61 | 0.1 | 27.6 | 10.4 | 511 | 2.64 | 14.6 | 1.5 | 6.1 | 7.6 | 36 | 0.1 | 1.2 | 0.2 | 43 | 0.49 | 0.076 | 26 | 32 | 0.54 | 330 | 0.034 | 2 | 1.56 | 0.017 | 0.1 | 0.1 | 0.11 | 5.8 | 0.2 | 0.05 | 4 | 0.5 |
| 6 | L6-010 | 508337 | 6879927 | 11/4/2009 | 10:13 | A | 25-35 | More than 10cm of dark OA and lesser, leached AE. Mottled upper B horizon begins ~20cm. Silty, creamy, and relatively well drained, with minor sand (to 5%). Permafrost at 35cm. | 0.5 | 21.6 | 5.1 | 26 | 0.1 | 15.7 | 9.1 | 300 | 1.08 | 3.4 | 1.3 | 7 | 0.4 | 34 | 0.1 | 0.4 | 0.1 | 23 | 0.69 | 0.092 | 15 | 15 | 0.22 | 267 | 0.015 | 1 | 1.14 | 0.046 | 0.05 | 0.1 | 0.08 | 1.6 | 0.1 | 0.05 | 3 | 0.5 |
| 6 | L6-011A | 508291 | 6879906 | 11/4/2009 | 10:19 | B | 25-35 | Frozen moss to 10cm. Minor OA into medium to dark brown A. Lighter, medium brown B horizon begins ~25cm, with increasing minor grit in a silt. Sand to 20%. Local gravel to 10% after 30cm. | 0.9 | 18.5 | 10 | 53 | 0.1 | 19 | 11.7 | 630 | 2.19 | 7.4 | 1.3 | 1.6 | 4.1 | 34 | 0.1 | 0.6 | 0.2 | 37 | 0.64 | 0.1 | 21 | 27 | 0.44 | 253 | 0.04 | 2 | 1.29 | 0.02 | 0.07 | 0.3 | 0.06 | 3.1 | 0.1 | 0.05 | 4 | 0.5 |
| 6 | L6-011B | 508291 | 6879906 | 11/4/2009 | 10:19 | B | 45-55 | Continued from above, with relatively well drained and locally mottled with bright orange/red iron spots after 40cm. | 0.9 | 21.5 | 10.2 | 68 | 0.1 | 21.6 | 11.2 | 445 | 2.41 | 9.6 | 1.4 | 3.1 | 3.6 | 39 | 0.3 | 0.8 | 0.2 | 43 | 0.72 | 0.099 | 22 | 26 | 0.46 | 280 | 0.035 | 3 | 1.36 | 0.021 | 0.07 | 0.3 | 0.1 | 3.3 | 0.1 | 0.05 | 4 | 0.5 |

# APPENDIX D

*Analytical Reports*

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

**Client:** **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Submitted By: Harmen Keyser
Receiving Lab: Canada-Vancouver
Received: November 09, 2009
Report Date: December 02, 2009
Page: 1 of 7

# CERTIFICATE OF ANALYSIS VAN09005540.1

## CLIENT JOB INFORMATION

Project: Snowcap
Shipment ID:
P.O. Number
Number of Samples: 155

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| S230 | 155 | Sieve soil to 230 mesh | | | VAN |
| 1DX2 | 155 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage

## 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: Westgold Minerals Incorporated
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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.

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| L1-001A | Soil | | 0.9 | 22.6 | 8.7 | 43 | <0.1 | 20.3 | 7.4 | 279 | 1.77 | 10.3 | 0.9 | 2.4 | 5.2 | 19 | 0.1 | 0.7 | 0.3 | 36 | 0.37 |
| L1-001B | Soil | | 1.7 | 29.6 | 13.6 | 57 | <0.1 | 22.4 | 8.3 | 354 | 1.90 | 17.2 | 1.0 | 3.2 | 6.3 | 21 | 0.2 | 1.0 | 0.3 | 37 | 0.39 |
| L1-002 | Soil | | 0.3 | 9.9 | 2.9 | 14 | <0.1 | 3.2 | 1.4 | 103 | 0.45 | 3.0 | 0.5 | <0.5 | <0.1 | 14 | 0.1 | 0.2 | <0.1 | 11 | 0.26 |
| L1-003 | Soil | | 0.7 | 11.3 | 7.6 | 47 | <0.1 | 11.1 | 5.2 | 133 | 1.63 | 5.0 | 0.4 | 5.3 | 3.0 | 20 | 0.1 | 0.4 | 0.2 | 45 | 0.24 |
| L1-004 | Soil | | 1.0 | 28.5 | 12.0 | 50 | <0.1 | 27.6 | 9.7 | 428 | 2.46 | 17.5 | 1.3 | 2.3 | 8.0 | 26 | 0.2 | 0.9 | 0.3 | 46 | 0.37 |
| L1-005 | Soil | | 0.7 | 20.1 | 6.6 | 49 | <0.1 | 26.6 | 11.8 | 363 | 2.88 | 10.1 | 1.1 | 1.4 | 5.6 | 23 | <0.1 | 0.6 | 0.2 | 66 | 0.42 |
| L1-006 | Soil | | 1.1 | 27.3 | 10.0 | 48 | <0.1 | 26.9 | 9.8 | 401 | 2.68 | 19.9 | 1.5 | 2.2 | 6.9 | 23 | <0.1 | 0.9 | 0.3 | 45 | 0.39 |
| L1-007 | Soil | | 1.0 | 22.5 | 10.1 | 43 | <0.1 | 22.7 | 8.3 | 220 | 2.39 | 10.5 | 0.9 | 1.4 | 6.0 | 16 | <0.1 | 0.7 | 0.2 | 50 | 0.25 |
| L1-008 | Soil | | 1.2 | 19.7 | 7.0 | 43 | <0.1 | 22.8 | 7.6 | 271 | 2.25 | 11.8 | 0.8 | 1.5 | 6.5 | 17 | <0.1 | 0.6 | 0.3 | 42 | 0.37 |
| L1-009 | Soil | | 1.8 | 23.1 | 5.6 | 39 | 0.1 | 25.2 | 8.5 | 399 | 2.77 | 17.5 | 1.6 | <0.5 | 2.2 | 52 | 0.3 | 0.6 | 0.2 | 37 | 1.30 |
| L1-010 | Soil | | 0.9 | 27.8 | 2.8 | 23 | 0.1 | 14.2 | 5.7 | 369 | 0.99 | 3.3 | 1.7 | 1.4 | 1.0 | 44 | 0.2 | 0.6 | 0.1 | 19 | 1.06 |
| L1-011 | Soil | | 0.7 | 10.6 | 2.1 | 15 | 0.1 | 5.6 | 1.4 | 98 | 0.39 | 3.0 | 0.4 | 0.5 | 0.6 | 13 | <0.1 | 0.2 | <0.1 | 6 | 0.21 |
| L1-012 | Soil | | 1.2 | 26.7 | 5.3 | 31 | 0.2 | 15.5 | 4.7 | 436 | 1.05 | 3.4 | 3.0 | 1.2 | 1.4 | 38 | 0.3 | 0.6 | 0.1 | 20 | 0.79 |
| L1-013 | Soil | | 2.1 | 29.2 | 8.0 | 49 | 0.2 | 21.1 | 8.3 | 384 | 1.80 | 9.1 | 2.1 | 2.2 | 3.7 | 35 | 0.2 | 0.7 | 0.2 | 35 | 0.81 |
| L1-014 | Soil | | 2.3 | 45.3 | 17.9 | 65 | 0.2 | 27.2 | 7.8 | 391 | 2.23 | 18.8 | 6.4 | 2.2 | 4.6 | 41 | 0.2 | 0.8 | 0.4 | 38 | 0.80 |
| L1-015 | Soil | | 1.3 | 21.1 | 9.4 | 53 | <0.1 | 24.3 | 8.7 | 337 | 2.21 | 12.1 | 1.5 | 2.5 | 5.4 | 26 | 0.2 | 0.7 | 0.2 | 39 | 0.63 |
| L1-016 | Soil | | 1.6 | 23.5 | 7.0 | 44 | <0.1 | 20.9 | 6.9 | 271 | 2.00 | 13.0 | 1.2 | 1.6 | 5.1 | 20 | <0.1 | 0.8 | 0.2 | 35 | 0.45 |
| L1-017 | Soil | | 1.5 | 17.7 | 8.2 | 39 | <0.1 | 20.3 | 6.5 | 205 | 1.98 | 7.8 | 1.1 | 2.5 | 5.7 | 20 | <0.1 | 0.4 | 0.2 | 40 | 0.39 |
| L1-018 | Soil | | 0.3 | 3.4 | 1.0 | 11 | <0.1 | 3.1 | 1.6 | 44 | 0.34 | 1.6 | 0.2 | <0.5 | 0.6 | 8 | <0.1 | <0.1 | <0.1 | 9 | 0.09 |
| L1-019 | Soil | | 0.5 | 14.6 | 5.8 | 34 | <0.1 | 18.1 | 6.2 | 185 | 1.83 | 5.9 | 0.8 | <0.5 | 4.9 | 18 | <0.1 | 0.3 | 0.2 | 41 | 0.29 |
| L1-020 | Soil | | 0.8 | 13.2 | 6.8 | 36 | <0.1 | 18.4 | 6.7 | 201 | 2.06 | 8.0 | 0.8 | 1.2 | 5.0 | 16 | <0.1 | 0.4 | 0.2 | 46 | 0.25 |
| L1-021 | Soil | | 0.8 | 16.5 | 6.1 | 41 | <0.1 | 22.9 | 7.8 | 297 | 2.18 | 6.8 | 1.1 | 1.1 | 6.4 | 21 | <0.1 | 0.5 | 0.2 | 46 | 0.35 |
| L1-022 | Soil | | 1.6 | 34.7 | 8.4 | 52 | 0.2 | 22.9 | 8.9 | 927 | 1.80 | 11.3 | 9.5 | 3.7 | 4.2 | 31 | 0.3 | 0.7 | 0.3 | 32 | 0.81 |
| L1-023 | Soil | | 1.5 | 24.2 | 7.9 | 49 | 0.1 | 26.1 | 10.2 | 481 | 2.48 | 15.7 | 4.2 | 1.9 | 5.8 | 26 | <0.1 | 0.7 | 0.3 | 37 | 0.56 |
| L2-001A | Soil | | 0.9 | 15.9 | 7.9 | 49 | 0.1 | 17.8 | 7.4 | 320 | 1.86 | 9.8 | 0.9 | 4.3 | 5.3 | 19 | <0.1 | 0.5 | 0.3 | 36 | 0.36 |
| L2-001B | Soil | | 0.7 | 16.1 | 6.7 | 44 | 0.1 | 14.5 | 5.9 | 245 | 1.60 | 9.4 | 0.8 | 1.7 | 2.8 | 17 | <0.1 | 0.5 | 0.3 | 33 | 0.33 |
| L2-002 | Soil | | 0.6 | 5.8 | 2.5 | 15 | <0.1 | 3.9 | 1.4 | 51 | 0.41 | 1.1 | 0.4 | <0.5 | 0.2 | 6 | <0.1 | 0.1 | 0.1 | 9 | 0.06 |
| L2-003A | Soil | | 1.0 | 13.8 | 7.1 | 46 | <0.1 | 15.9 | 6.4 | 345 | 1.79 | 7.7 | 0.9 | 1.6 | 4.4 | 16 | <0.1 | 0.5 | 0.2 | 34 | 0.29 |
| L2-003B | Soil | | 1.0 | 14.6 | 7.4 | 46 | 0.1 | 15.8 | 6.4 | 326 | 1.71 | 7.4 | 1.0 | 2.6 | 4.8 | 16 | <0.1 | 0.5 | 0.2 | 34 | 0.31 |
| L2-004 | Soil | | 0.8 | 14.9 | 6.0 | 44 | <0.1 | 21.1 | 7.7 | 272 | 2.10 | 7.2 | 1.2 | 0.9 | 6.2 | 21 | <0.1 | 0.4 | 0.2 | 44 | 0.43 |

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.

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| L1-001A | Soil | 0.070 | 19 | 24 | 0.41 | 147 | 0.063 | <1 | 1.07 | 0.016 | 0.07 | 0.5 | 0.02 | 3.2 | <0.1 | <0.05 | 3 | <0.5 |
| L1-001B | Soil | 0.086 | 24 | 25 | 0.39 | 148 | 0.059 | <1 | 0.94 | 0.019 | 0.09 | 0.8 | 0.03 | 3.3 | 0.1 | <0.05 | 3 | <0.5 |
| L1-002 | Soil | 0.026 | 7 | 5 | 0.08 | 76 | 0.010 | <1 | 0.39 | 0.044 | 0.05 | <0.1 | 0.01 | 0.3 | <0.1 | <0.05 | 1 | <0.5 |
| L1-003 | Soil | 0.020 | 12 | 24 | 0.30 | 167 | 0.069 | <1 | 1.22 | 0.015 | 0.04 | 0.3 | <0.01 | 1.9 | <0.1 | <0.05 | 4 | <0.5 |
| L1-004 | Soil | 0.060 | 28 | 32 | 0.52 | 171 | 0.075 | <1 | 1.39 | 0.016 | 0.08 | 0.5 | 0.03 | 4.7 | <0.1 | <0.05 | 4 | 0.6 |
| L1-005 | Soil | 0.051 | 22 | 37 | 1.01 | 204 | 0.092 | <1 | 1.87 | 0.029 | 0.12 | 0.4 | 0.02 | 7.1 | 0.1 | <0.05 | 6 | <0.5 |
| L1-006 | Soil | 0.076 | 23 | 32 | 0.49 | 160 | 0.056 | <1 | 1.17 | 0.018 | 0.09 | 0.6 | 0.03 | 4.5 | 0.1 | <0.05 | 4 | 0.6 |
| L1-007 | Soil | 0.019 | 17 | 33 | 0.48 | 154 | 0.051 | <1 | 1.45 | 0.019 | 0.07 | 0.3 | 0.02 | 3.5 | <0.1 | <0.05 | 4 | <0.5 |
| L1-008 | Soil | 0.052 | 12 | 32 | 0.51 | 139 | 0.060 | <1 | 1.25 | 0.016 | 0.09 | 0.4 | 0.01 | 3.2 | 0.1 | <0.05 | 4 | <0.5 |
| L1-009 | Soil | 0.097 | 16 | 23 | 0.34 | 325 | 0.032 | <1 | 0.90 | 0.009 | 0.06 | 0.3 | 0.03 | 2.2 | <0.1 | 0.11 | 3 | <0.5 |
| L1-010 | Soil | 0.064 | 18 | 12 | 0.15 | 210 | 0.019 | <1 | 0.74 | 0.017 | 0.04 | 0.1 | 0.05 | 1.3 | <0.1 | 0.09 | 2 | 0.9 |
| L1-011 | Soil | 0.030 | 9 | 4 | 0.05 | 76 | 0.012 | <1 | 0.43 | 0.036 | 0.05 | <0.1 | 0.02 | 0.6 | <0.1 | <0.05 | 1 | <0.5 |
| L1-012 | Soil | 0.076 | 162 | 14 | 0.17 | 189 | 0.018 | <1 | 0.83 | 0.015 | 0.06 | 0.2 | 0.06 | 1.6 | <0.1 | 0.09 | 3 | 1.3 |
| L1-013 | Soil | 0.077 | 76 | 24 | 0.45 | 170 | 0.041 | <1 | 1.13 | 0.012 | 0.08 | 0.6 | 0.05 | 2.6 | <0.1 | 0.06 | 3 | 1.0 |
| L1-014 | Soil | 0.111 | 337 | 27 | 0.45 | 296 | 0.021 | <1 | 1.63 | 0.013 | 0.09 | 0.5 | 0.11 | 3.6 | 0.2 | 0.05 | 5 | 2.5 |
| L1-015 | Soil | 0.092 | 20 | 29 | 0.55 | 156 | 0.057 | <1 | 1.14 | 0.013 | 0.10 | 0.5 | 0.05 | 3.0 | 0.1 | <0.05 | 4 | <0.5 |
| L1-016 | Soil | 0.081 | 25 | 26 | 0.50 | 153 | 0.051 | <1 | 1.00 | 0.032 | 0.10 | 0.6 | 0.02 | 3.2 | 0.1 | <0.05 | 3 | <0.5 |
| L1-017 | Soil | 0.080 | 78 | 28 | 0.51 | 169 | 0.053 | <1 | 1.30 | 0.014 | 0.07 | 0.4 | 0.02 | 2.6 | 0.1 | <0.05 | 4 | <0.5 |
| L1-018 | Soil | 0.015 | 4 | 6 | 0.05 | 51 | 0.017 | <1 | 0.40 | 0.030 | 0.04 | <0.1 | <0.01 | 0.5 | <0.1 | <0.05 | 1 | <0.5 |
| L1-019 | Soil | 0.053 | 20 | 28 | 0.43 | 134 | 0.055 | <1 | 1.15 | 0.014 | 0.05 | 0.3 | <0.01 | 2.4 | 0.1 | <0.05 | 4 | <0.5 |
| L1-020 | Soil | 0.046 | 18 | 31 | 0.45 | 137 | 0.064 | <1 | 1.34 | 0.019 | 0.05 | 0.4 | 0.01 | 2.8 | <0.1 | <0.05 | 4 | <0.5 |
| L1-021 | Soil | 0.077 | 23 | 32 | 0.52 | 139 | 0.068 | <1 | 1.24 | 0.022 | 0.08 | 0.4 | 0.01 | 3.5 | 0.1 | <0.05 | 4 | <0.5 |
| L1-022 | Soil | 0.081 | 61 | 27 | 0.49 | 134 | 0.041 | <1 | 1.10 | 0.013 | 0.09 | 0.4 | 0.05 | 3.0 | 0.1 | <0.05 | 4 | 1.6 |
| L1-023 | Soil | 0.066 | 23 | 29 | 0.62 | 160 | 0.041 | <1 | 1.29 | 0.022 | 0.11 | 0.6 | 0.02 | 3.3 | <0.1 | <0.05 | 4 | <0.5 |
| L2-001A | Soil | 0.080 | 23 | 25 | 0.49 | 151 | 0.046 | <1 | 1.17 | 0.018 | 0.07 | 0.5 | 0.02 | 2.4 | 0.1 | <0.05 | 4 | <0.5 |
| L2-001B | Soil | 0.060 | 20 | 20 | 0.35 | 149 | 0.031 | <1 | 1.07 | 0.013 | 0.07 | 0.4 | 0.02 | 1.9 | 0.1 | <0.05 | 4 | <0.5 |
| L2-002 | Soil | 0.031 | 9 | 7 | 0.08 | 50 | 0.009 | <1 | 0.58 | 0.017 | 0.05 | <0.1 | 0.01 | 0.5 | <0.1 | <0.05 | 2 | <0.5 |
| L2-003A | Soil | 0.070 | 25 | 24 | 0.43 | 141 | 0.044 | <1 | 1.14 | 0.014 | 0.07 | 0.3 | 0.02 | 2.1 | 0.1 | <0.05 | 4 | <0.5 |
| L2-003B | Soil | 0.073 | 25 | 23 | 0.44 | 145 | 0.048 | 107 | 1.16 | 0.024 | 0.07 | 0.3 | 0.01 | 2.1 | <0.1 | <0.05 | 4 | <0.5 |
| L2-004 | Soil | 0.071 | 19 | 31 | 0.53 | 207 | 0.071 | <1 | 1.44 | 0.024 | 0.07 | 0.4 | 0.01 | 3.1 | 0.1 | <0.05 | 4 | 0.6 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| | Method | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| L2-005A | Soil | | 1.0 | 12.8 | 6.0 | 43 | <0.1 | 17.3 | 7.8 | 325 | 1.86 | 4.9 | 1.4 | <0.5 | 5.1 | 20 | <0.1 | 0.3 | 0.2 | 42 | 0.39 |
| L2-005B | Soil | | 0.5 | 13.1 | 5.2 | 39 | <0.1 | 17.1 | 6.2 | 225 | 1.71 | 4.7 | 0.9 | 1.7 | 5.9 | 22 | <0.1 | 0.4 | 0.1 | 42 | 0.46 |
| L2-006 | Soil | | 1.0 | 13.2 | 6.0 | 39 | <0.1 | 20.5 | 7.2 | 309 | 1.99 | 9.4 | 0.9 | 4.2 | 5.1 | 19 | <0.1 | 0.6 | 0.2 | 39 | 0.35 |
| L2-007 | Soil | | 4.6 | 18.4 | 10.3 | 71 | 0.2 | 17.5 | 7.7 | 423 | 2.33 | 13.1 | 1.8 | 1.6 | 3.8 | 18 | 0.1 | 0.6 | 0.4 | 41 | 0.27 |
| L2-008 | Soil | | 2.0 | 13.7 | 9.7 | 56 | <0.1 | 18.2 | 6.8 | 363 | 2.26 | 10.2 | 1.0 | 1.9 | 4.1 | 18 | 0.1 | 0.6 | 0.3 | 44 | 0.29 |
| L2-009A | Soil | | 1.6 | 13.2 | 7.5 | 60 | 0.1 | 16.9 | 6.4 | 374 | 1.84 | 5.0 | 1.9 | 8.1 | 4.2 | 18 | 0.2 | 0.4 | 0.3 | 37 | 0.34 |
| L2-009B | Soil | | 1.6 | 14.2 | 6.9 | 61 | 0.1 | 18.0 | 6.4 | 389 | 1.88 | 5.7 | 1.9 | 3.0 | 4.9 | 19 | 0.2 | 0.5 | 0.3 | 38 | 0.36 |
| L2-010A | Soil | | 1.1 | 14.8 | 7.9 | 61 | <0.1 | 18.4 | 6.6 | 336 | 2.01 | 9.3 | 1.0 | 3.6 | 5.0 | 19 | 0.1 | 0.7 | 0.3 | 36 | 0.35 |
| L2-010B | Soil | | 1.0 | 20.5 | 6.6 | 58 | <0.1 | 21.3 | 7.1 | 262 | 2.33 | 8.2 | 0.9 | 3.4 | 4.9 | 23 | 0.2 | 0.7 | 0.2 | 51 | 0.42 |
| L2-011 | Soil | | 1.4 | 13.6 | 8.0 | 49 | <0.1 | 12.1 | 5.5 | 294 | 1.56 | 5.9 | 1.2 | <0.5 | 1.3 | 14 | 0.1 | 0.4 | 0.9 | 29 | 0.22 |
| L2-012 | Soil | | 1.2 | 12.6 | 7.5 | 52 | <0.1 | 17.1 | 6.1 | 304 | 2.00 | 8.5 | 0.9 | <0.5 | 4.6 | 17 | 0.2 | 0.5 | 0.4 | 39 | 0.32 |
| L2-013 | Soil | | 1.7 | 7.7 | 9.5 | 63 | <0.1 | 9.2 | 4.9 | 631 | 1.54 | 4.5 | 1.0 | <0.5 | 3.6 | 17 | 0.1 | 0.4 | 0.4 | 22 | 0.22 |
| L2-014 | Soil | | 0.8 | 16.5 | 15.5 | 82 | 0.2 | 14.9 | 5.5 | 344 | 1.40 | 3.7 | 1.8 | 1.3 | 1.9 | 29 | 0.9 | 0.5 | 0.3 | 28 | 0.38 |
| L2-015 | Soil | | 1.4 | 18.8 | 11.5 | 79 | <0.1 | 18.3 | 6.9 | 321 | 2.00 | 9.8 | 1.8 | 2.0 | 6.2 | 27 | 0.4 | 0.8 | 0.3 | 37 | 0.40 |
| L2-016 | Soil | | 1.3 | 14.1 | 14.8 | 56 | <0.1 | 13.8 | 6.0 | 460 | 1.81 | 11.0 | 0.8 | 1.6 | 4.0 | 25 | 0.3 | 0.9 | 0.4 | 26 | 0.42 |
| L2-017 | Soil | | 0.9 | 19.3 | 10.3 | 61 | 0.1 | 18.1 | 7.2 | 289 | 1.76 | 7.8 | 2.1 | 1.9 | 4.3 | 27 | 0.2 | 0.7 | 0.3 | 35 | 0.45 |
| L2-018 | Soil | | 0.3 | 16.7 | 6.2 | 23 | 0.1 | 10.2 | 2.7 | 115 | 0.81 | 2.7 | 1.6 | 0.6 | 2.0 | 18 | <0.1 | 0.3 | 0.1 | 16 | 0.24 |
| L2-019 | Soil | | 1.0 | 21.3 | 17.4 | 93 | 0.1 | 22.7 | 7.8 | 385 | 2.21 | 11.0 | 1.2 | 1.9 | 5.0 | 28 | 0.3 | 0.8 | 0.3 | 40 | 0.43 |
| L2-020 | Soil | | 0.5 | 8.1 | 6.1 | 30 | <0.1 | 8.0 | 2.8 | 172 | 1.03 | 3.3 | 0.6 | <0.5 | 2.0 | 15 | 0.2 | 0.2 | 0.1 | 25 | 0.17 |
| L2-021 | Soil | | 1.1 | 13.8 | 11.9 | 63 | <0.1 | 17.3 | 6.9 | 266 | 1.97 | 7.8 | 1.2 | <0.5 | 5.1 | 21 | 0.2 | 0.5 | 0.2 | 39 | 0.30 |
| L4-001 | Soil | | 0.5 | 17.9 | 7.8 | 50 | <0.1 | 16.4 | 7.2 | 169 | 1.62 | 4.2 | 1.0 | 0.6 | 4.9 | 20 | 0.2 | 0.5 | 0.2 | 35 | 0.34 |
| L4-002 | Soil | | 0.6 | 22.3 | 8.5 | 53 | <0.1 | 17.1 | 8.9 | 259 | 1.92 | 6.2 | 1.1 | 1.1 | 4.5 | 23 | 0.2 | 0.6 | 0.2 | 35 | 0.35 |
| L4-003 | Soil | | 0.6 | 13.9 | 6.4 | 36 | <0.1 | 12.3 | 5.6 | 296 | 1.56 | 9.7 | 0.9 | 1.2 | 2.8 | 19 | <0.1 | 0.4 | 0.1 | 31 | 0.27 |
| L4-004 | Soil | | 0.6 | 13.7 | 5.9 | 30 | <0.1 | 9.2 | 5.2 | 250 | 1.44 | 6.0 | 0.8 | <0.5 | 1.4 | 19 | <0.1 | 0.2 | 0.1 | 27 | 0.28 |
| L4-005 | Soil | | 0.4 | 15.0 | 6.1 | 36 | <0.1 | 11.2 | 4.8 | 269 | 1.31 | 4.6 | 1.0 | <0.5 | 2.6 | 25 | <0.1 | 0.3 | 0.1 | 26 | 0.45 |
| L4-006 | Soil | | 0.8 | 39.4 | 14.6 | 75 | 0.2 | 21.9 | 10.2 | 470 | 2.36 | 10.0 | 2.0 | 9.4 | 5.5 | 23 | 0.2 | 0.7 | 0.3 | 48 | 0.46 |
| L4-007 | Soil | | 0.8 | 43.1 | 13.4 | 69 | 0.1 | 25.0 | 11.6 | 692 | 2.74 | 12.4 | 1.0 | 2.9 | 5.8 | 31 | 0.3 | 1.2 | 0.2 | 40 | 0.75 |
| L4-008 | Soil | | 1.0 | 47.8 | 12.2 | 81 | 0.1 | 31.7 | 13.7 | 666 | 2.95 | 17.0 | 0.8 | 3.4 | 6.7 | 26 | 0.3 | 1.5 | 0.2 | 43 | 0.46 |
| L4-009A | Soil | | 0.8 | 22.7 | 9.5 | 49 | <0.1 | 23.0 | 10.5 | 578 | 2.40 | 9.6 | 1.4 | 1.4 | 7.1 | 20 | <0.1 | 0.8 | 0.2 | 44 | 0.31 |
| L4-009B | Soil | | 0.9 | 43.4 | 10.9 | 61 | <0.1 | 25.9 | 9.5 | 609 | 2.45 | 12.5 | 1.5 | 4.6 | 7.0 | 25 | 0.3 | 1.0 | 0.2 | 39 | 0.38 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| L2-005A | Soil | 0.080 | 21 | 28 | 0.49 | 199 | 0.054 | <1 | 1.35 | 0.012 | 0.05 | 0.4 | 0.02 | 2.7 | 0.1 | <0.05 | 4 | 0.6 |
| L2-005B | Soil | 0.096 | 19 | 26 | 0.49 | 130 | 0.068 | <1 | 1.01 | 0.014 | 0.06 | 0.4 | 0.01 | 2.6 | <0.1 | <0.05 | 3 | <0.5 |
| L2-006 | Soil | 0.082 | 19 | 28 | 0.51 | 167 | 0.054 | <1 | 1.11 | 0.012 | 0.07 | 0.5 | 0.01 | 2.2 | <0.1 | <0.05 | 4 | <0.5 |
| L2-007 | Soil | 0.063 | 70 | 28 | 0.49 | 216 | 0.021 | <1 | 1.80 | 0.017 | 0.13 | 0.2 | 0.03 | 2.7 | 0.2 | <0.05 | 6 | 0.8 |
| L2-008 | Soil | 0.070 | 28 | 28 | 0.50 | 148 | 0.045 | <1 | 1.40 | 0.009 | 0.09 | 0.3 | 0.02 | 2.3 | 0.1 | <0.05 | 5 | 0.5 |
| L2-009A | Soil | 0.082 | 39 | 27 | 0.47 | 175 | 0.038 | <1 | 1.39 | 0.012 | 0.09 | 0.3 | 0.03 | 2.8 | 0.1 | <0.05 | 5 | <0.5 |
| L2-009B | Soil | 0.081 | 38 | 28 | 0.50 | 173 | 0.043 | <1 | 1.34 | 0.013 | 0.08 | 0.4 | 0.03 | 2.8 | 0.1 | <0.05 | 5 | <0.5 |
| L2-010A | Soil | 0.087 | 26 | 24 | 0.51 | 166 | 0.047 | <1 | 1.18 | 0.014 | 0.09 | 0.4 | 0.01 | 2.5 | 0.1 | <0.05 | 4 | <0.5 |
| L2-010B | Soil | 0.093 | 24 | 31 | 0.51 | 178 | 0.064 | <1 | 1.15 | 0.021 | 0.09 | 0.6 | 0.03 | 3.2 | <0.1 | <0.05 | 4 | <0.5 |
| L2-011 | Soil | 0.049 | 31 | 18 | 0.22 | 140 | 0.016 | <1 | 1.26 | 0.021 | 0.07 | 0.2 | 0.01 | 1.4 | <0.1 | <0.05 | 5 | <0.5 |
| L2-012 | Soil | 0.073 | 28 | 25 | 0.48 | 141 | 0.045 | <1 | 1.30 | 0.010 | 0.09 | 0.3 | 0.01 | 2.1 | 0.1 | <0.05 | 4 | <0.5 |
| L2-013 | Soil | 0.047 | 37 | 15 | 0.31 | 98 | 0.024 | <1 | 1.08 | 0.025 | 0.08 | 0.2 | 0.01 | 1.6 | <0.1 | <0.05 | 5 | <0.5 |
| L2-014 | Soil | 0.070 | 51 | 20 | 0.38 | 225 | 0.019 | <1 | 1.34 | 0.020 | 0.08 | 0.2 | 0.04 | 2.4 | 0.1 | 0.07 | 5 | <0.5 |
| L2-015 | Soil | 0.085 | 26 | 27 | 0.48 | 156 | 0.057 | <1 | 1.14 | 0.018 | 0.09 | 0.4 | 0.02 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |
| L2-016 | Soil | 0.072 | 25 | 18 | 0.41 | 134 | 0.024 | <1 | 1.10 | 0.015 | 0.08 | 0.3 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 |
| L2-017 | Soil | 0.076 | 23 | 23 | 0.47 | 171 | 0.050 | 1 | 1.08 | 0.023 | 0.09 | 0.3 | 0.02 | 2.7 | 0.1 | <0.05 | 4 | 0.6 |
| L2-018 | Soil | 0.029 | 15 | 10 | 0.16 | 197 | 0.024 | <1 | 0.62 | 0.036 | 0.04 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 2 | <0.5 |
| L2-019 | Soil | 0.069 | 25 | 24 | 0.45 | 322 | 0.029 | <1 | 1.43 | 0.018 | 0.09 | 0.3 | 0.03 | 3.1 | 0.2 | <0.05 | 5 | <0.5 |
| L2-020 | Soil | 0.035 | 14 | 13 | 0.22 | 119 | 0.031 | <1 | 0.81 | 0.020 | 0.05 | 0.2 | 0.02 | 1.4 | <0.1 | <0.05 | 4 | <0.5 |
| L2-021 | Soil | 0.072 | 28 | 25 | 0.47 | 208 | 0.043 | <1 | 1.36 | 0.014 | 0.06 | 0.3 | 0.02 | 2.5 | 0.1 | <0.05 | 5 | <0.5 |
| L4-001 | Soil | 0.090 | 16 | 25 | 0.48 | 214 | 0.048 | <1 | 1.17 | 0.014 | 0.06 | 0.3 | 0.03 | 2.9 | 0.1 | <0.05 | 4 | <0.5 |
| L4-002 | Soil | 0.091 | 17 | 25 | 0.46 | 248 | 0.039 | <1 | 1.19 | 0.016 | 0.06 | 0.3 | 0.04 | 3.1 | 0.1 | <0.05 | 4 | <0.5 |
| L4-003 | Soil | 0.065 | 12 | 18 | 0.34 | 158 | 0.033 | <1 | 0.90 | 0.024 | 0.06 | 0.2 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 |
| L4-004 | Soil | 0.072 | 10 | 15 | 0.25 | 201 | 0.024 | <1 | 0.80 | 0.023 | 0.04 | 0.3 | 0.03 | 1.5 | <0.1 | <0.05 | 3 | <0.5 |
| L4-005 | Soil | 0.079 | 12 | 18 | 0.30 | 262 | 0.033 | <1 | 0.90 | 0.025 | 0.05 | 0.4 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | 0.5 |
| L4-006 | Soil | 0.087 | 21 | 30 | 0.53 | 335 | 0.037 | <1 | 1.47 | 0.014 | 0.07 | 0.3 | 0.07 | 3.9 | 0.1 | <0.05 | 5 | <0.5 |
| L4-007 | Soil | 0.095 | 20 | 28 | 0.58 | 411 | 0.030 | 2 | 1.24 | 0.015 | 0.12 | 0.2 | 0.10 | 4.4 | <0.1 | <0.05 | 3 | <0.5 |
| L4-008 | Soil | 0.105 | 21 | 31 | 0.69 | 301 | 0.044 | 1 | 1.33 | 0.016 | 0.19 | 0.2 | 0.12 | 4.5 | 0.1 | <0.05 | 4 | <0.5 |
| L4-009A | Soil | 0.088 | 21 | 31 | 0.55 | 196 | 0.063 | <1 | 1.40 | 0.011 | 0.07 | 0.3 | 0.16 | 3.3 | 0.1 | <0.05 | 4 | <0.5 |
| L4-009B | Soil | 0.116 | 22 | 28 | 0.44 | 325 | 0.055 | 1 | 0.95 | 0.015 | 0.11 | 0.2 | 0.24 | 4.6 | <0.1 | <0.05 | 3 | <0.5 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| L4-010A | Soil | | 0.6 | 32.6 | 7.8 | 47 | <0.1 | 27.9 | 8.0 | 543 | 2.13 | 10.4 | 1.0 | 3.2 | 6.7 | 22 | 0.1 | 0.8 | 0.2 | 34 | 0.32 |
| L4-010B | Soil | | 1.2 | 43.4 | 13.0 | 66 | <0.1 | 29.3 | 11.8 | 1076 | 2.76 | 14.7 | 1.2 | 8.5 | 7.5 | 24 | 0.3 | 1.1 | 0.2 | 40 | 0.36 |
| L4-011 | Soil | | 0.9 | 34.4 | 12.1 | 63 | <0.1 | 53.0 | 12.1 | 631 | 2.68 | 14.5 | 1.1 | 3.3 | 7.4 | 24 | 0.2 | 1.2 | 0.2 | 45 | 0.37 |
| L4-012 | Soil | | 0.7 | 24.2 | 10.4 | 47 | <0.1 | 19.2 | 8.0 | 415 | 2.15 | 9.9 | 1.5 | 1.8 | 4.9 | 23 | <0.1 | 0.8 | 0.2 | 39 | 0.42 |
| L4-013A | Soil | | 0.7 | 21.6 | 8.0 | 46 | <0.1 | 20.5 | 8.3 | 384 | 2.04 | 8.6 | 1.4 | 1.2 | 3.1 | 23 | 0.1 | 0.5 | 0.2 | 43 | 0.33 |
| L4-013B | Soil | | 0.8 | 33.4 | 10.3 | 59 | <0.1 | 27.5 | 9.1 | 542 | 2.41 | 12.0 | 1.2 | 2.6 | 6.4 | 26 | 0.2 | 1.0 | 0.2 | 38 | 0.38 |
| L4-014 | Soil | | 0.8 | 34.9 | 11.7 | 56 | <0.1 | 27.6 | 9.1 | 550 | 2.47 | 12.3 | 1.1 | 3.6 | 6.3 | 32 | 0.2 | 1.0 | 0.2 | 45 | 0.47 |
| L4-015 | Soil | | 0.9 | 29.0 | 9.9 | 53 | <0.1 | 11.7 | 12.2 | 962 | 2.14 | 9.1 | 0.6 | 12.8 | 4.1 | 17 | 0.1 | 0.5 | 0.2 | 42 | 0.16 |
| L4-016 | Soil | | 0.5 | 29.7 | 6.9 | 46 | <0.1 | 16.3 | 8.5 | 534 | 1.70 | 5.3 | 1.4 | 2.2 | 1.3 | 26 | 0.1 | 0.4 | 0.2 | 36 | 0.39 |
| L4-017 | Soil | | 0.8 | 21.0 | 8.8 | 58 | <0.1 | 19.0 | 9.3 | 337 | 2.12 | 9.6 | 1.1 | 1.4 | 5.3 | 35 | 0.2 | 0.9 | 0.2 | 41 | 0.69 |
| L4-018 | Soil | | 0.9 | 26.7 | 12.3 | 70 | <0.1 | 25.7 | 9.6 | 488 | 2.48 | 13.9 | 1.3 | 1.2 | 7.1 | 39 | 0.2 | 1.3 | 0.2 | 38 | 0.73 |
| L4-019 | Soil | | 1.0 | 30.1 | 15.1 | 70 | 0.1 | 27.7 | 10.4 | 557 | 2.58 | 17.1 | 1.5 | 1.6 | 8.8 | 44 | 0.2 | 1.5 | 0.3 | 43 | 0.52 |
| L4-020A | Soil | | 0.8 | 20.7 | 10.0 | 47 | <0.1 | 25.7 | 9.2 | 305 | 2.39 | 9.8 | 1.5 | 1.9 | 7.6 | 21 | <0.1 | 0.7 | 0.3 | 47 | 0.38 |
| L4-020B | Soil | | 0.8 | 23.3 | 8.9 | 60 | <0.1 | 21.0 | 8.8 | 465 | 2.60 | 11.4 | 1.0 | 1.3 | 6.3 | 30 | <0.1 | 1.1 | 0.2 | 43 | 0.52 |
| L4-021 | Soil | | 0.9 | 31.4 | 16.9 | 67 | <0.1 | 28.1 | 12.5 | 858 | 2.67 | 15.4 | 1.6 | 2.7 | 8.8 | 31 | 0.1 | 1.4 | 0.2 | 43 | 0.40 |
| L4-022 | Soil | | 1.0 | 21.8 | 14.8 | 65 | <0.1 | 34.1 | 18.3 | 434 | 2.80 | 17.1 | 1.4 | 1.1 | 7.2 | 23 | 0.3 | 1.5 | 0.3 | 48 | 0.29 |
| L4-023A | Soil | | 0.8 | 12.5 | 8.6 | 49 | <0.1 | 17.2 | 7.7 | 232 | 2.24 | 7.4 | 1.2 | <0.5 | 2.4 | 19 | 0.2 | 0.4 | 0.3 | 47 | 0.31 |
| L4-023B | Soil | | 0.7 | 21.9 | 13.9 | 58 | <0.1 | 22.0 | 11.2 | 509 | 2.11 | 10.7 | 1.6 | 4.2 | 5.5 | 24 | 0.1 | 1.0 | 0.2 | 37 | 0.31 |
| L4-024 | Soil | | 0.9 | 25.5 | 10.8 | 57 | <0.1 | 23.2 | 9.3 | 400 | 2.31 | 10.9 | 1.4 | 2.0 | 4.7 | 27 | 0.1 | 0.9 | 0.2 | 44 | 0.39 |
| L4-025 | Soil | | 0.8 | 25.9 | 12.1 | 50 | <0.1 | 24.5 | 10.9 | 582 | 2.23 | 13.1 | 1.4 | 4.3 | 7.7 | 21 | 0.1 | 1.0 | 0.2 | 34 | 0.27 |
| L4-026A | Soil | | 0.8 | 20.1 | 9.2 | 50 | <0.1 | 25.8 | 9.3 | 350 | 2.33 | 8.7 | 1.5 | 6.5 | 6.8 | 22 | 0.1 | 0.6 | 0.3 | 47 | 0.35 |
| L4-026B | Soil | | 1.0 | 35.6 | 13.3 | 62 | <0.1 | 28.3 | 9.8 | 525 | 2.47 | 12.7 | 1.9 | 4.8 | 7.7 | 35 | <0.1 | 1.2 | 0.3 | 40 | 0.48 |
| L4-027 | Soil | | 0.7 | 27.6 | 13.2 | 52 | <0.1 | 22.0 | 12.1 | 368 | 2.51 | 11.3 | 1.3 | 2.3 | 7.2 | 32 | <0.1 | 1.3 | 0.2 | 39 | 0.34 |
| L4-028A | Soil | | 0.8 | 17.2 | 9.1 | 53 | <0.1 | 22.1 | 8.7 | 331 | 2.30 | 7.8 | 1.1 | 0.7 | 5.4 | 19 | 0.1 | 0.6 | 0.2 | 47 | 0.31 |
| L4-028B | Soil | | 0.8 | 17.6 | 9.7 | 54 | <0.1 | 20.6 | 9.0 | 335 | 2.29 | 8.7 | 1.0 | 3.8 | 4.6 | 22 | 0.2 | 0.7 | 0.3 | 45 | 0.33 |
| L4-029A | Soil | | 0.8 | 33.0 | 10.8 | 62 | <0.1 | 23.9 | 9.1 | 471 | 2.43 | 13.8 | 1.1 | 4.2 | 5.9 | 33 | <0.1 | 1.3 | 0.2 | 35 | 0.41 |
| L4-029B | Soil | | 0.7 | 16.0 | 9.2 | 43 | <0.1 | 24.2 | 9.8 | 302 | 2.33 | 8.7 | 1.1 | 5.3 | 4.6 | 18 | <0.1 | 0.6 | 0.3 | 40 | 0.26 |
| L4-030 | Soil | | 0.8 | 26.6 | 8.8 | 54 | <0.1 | 19.9 | 7.0 | 389 | 2.22 | 11.6 | 0.8 | 13.9 | 5.3 | 24 | 0.1 | 1.1 | 0.2 | 31 | 0.31 |
| L4-031A | Soil | | 0.6 | 12.2 | 7.5 | 42 | <0.1 | 16.4 | 6.7 | 209 | 1.97 | 6.0 | 1.4 | 2.8 | 2.3 | 17 | <0.1 | 0.4 | 0.3 | 40 | 0.24 |
| L4-031B | Soil | | 0.7 | 15.5 | 8.0 | 45 | <0.1 | 19.1 | 8.5 | 290 | 2.04 | 6.5 | 1.7 | 11.1 | 4.1 | 21 | <0.1 | 0.4 | 0.2 | 43 | 0.33 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| L4-010A | Soil | | 0.106 | 21 | 28 | 0.42 | 339 | 0.047 | <1 | 1.02 | 0.008 | 0.07 | 0.2 | 0.23 | 3.4 | <0.1 | <0.05 | 3 | <0.5 |
| L4-010B | Soil | | 0.106 | 30 | 26 | 0.46 | 467 | 0.047 | 1 | 1.03 | 0.013 | 0.12 | 0.2 | 0.35 | 4.3 | <0.1 | <0.05 | 3 | <0.5 |
| L4-011 | Soil | | 0.101 | 24 | 61 | 0.80 | 294 | 0.069 | <1 | 1.18 | 0.011 | 0.10 | 0.2 | 0.12 | 4.1 | 0.1 | <0.05 | 3 | <0.5 |
| L4-012 | Soil | | 0.072 | 22 | 27 | 0.44 | 426 | 0.041 | 1 | 1.34 | 0.010 | 0.09 | 0.2 | 0.10 | 3.3 | 0.1 | <0.05 | 4 | <0.5 |
| L4-013A | Soil | | 0.087 | 22 | 31 | 0.49 | 335 | 0.047 | <1 | 1.33 | 0.012 | 0.06 | 0.3 | 0.06 | 2.9 | 0.1 | <0.05 | 4 | 0.6 |
| L4-013B | Soil | | 0.108 | 22 | 29 | 0.52 | 341 | 0.047 | 1 | 1.13 | 0.014 | 0.10 | 0.2 | 0.16 | 3.8 | <0.1 | <0.05 | 3 | <0.5 |
| L4-014 | Soil | | 0.108 | 21 | 33 | 0.51 | 369 | 0.065 | 1 | 1.16 | 0.013 | 0.12 | 0.2 | 0.24 | 4.7 | 0.1 | <0.05 | 4 | <0.5 |
| L4-015 | Soil | | 0.081 | 12 | 20 | 0.29 | 475 | 0.036 | 2 | 1.23 | 0.013 | 0.11 | 0.2 | 0.19 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |
| L4-016 | Soil | | 0.085 | 15 | 22 | 0.35 | 593 | 0.029 | <1 | 1.31 | 0.021 | 0.06 | 0.3 | 0.15 | 2.7 | 0.1 | <0.05 | 4 | <0.5 |
| L4-017 | Soil | | 0.091 | 17 | 25 | 0.48 | 237 | 0.036 | 1 | 1.15 | 0.022 | 0.09 | 0.2 | 0.34 | 3.6 | 0.2 | <0.05 | 3 | <0.5 |
| L4-018 | Soil | | 0.100 | 22 | 27 | 0.47 | 358 | 0.028 | 2 | 1.18 | 0.018 | 0.11 | <0.1 | 0.30 | 4.3 | 0.2 | <0.05 | 3 | <0.5 |
| L4-019 | Soil | | 0.084 | 26 | 29 | 0.52 | 428 | 0.034 | 2 | 1.46 | 0.017 | 0.12 | 0.1 | 0.16 | 4.9 | 0.2 | <0.05 | 4 | <0.5 |
| L4-020A | Soil | | 0.076 | 24 | 32 | 0.57 | 211 | 0.064 | <1 | 1.67 | 0.013 | 0.08 | 0.4 | 0.04 | 3.6 | 0.2 | <0.05 | 5 | <0.5 |
| L4-020B | Soil | | 0.078 | 19 | 27 | 0.68 | 278 | 0.047 | 2 | 1.40 | 0.015 | 0.12 | 0.1 | 0.10 | 5.0 | 0.1 | <0.05 | 4 | <0.5 |
| L4-021 | Soil | | 0.092 | 27 | 33 | 0.50 | 317 | 0.030 | 1 | 1.56 | 0.012 | 0.09 | 0.1 | 0.11 | 5.3 | 0.2 | <0.05 | 4 | <0.5 |
| L4-022 | Soil | | 0.088 | 19 | 35 | 0.47 | 220 | 0.033 | 1 | 2.18 | 0.011 | 0.08 | 0.3 | 0.07 | 3.7 | 0.2 | <0.05 | 4 | 0.6 |
| L4-023A | Soil | | 0.087 | 16 | 32 | 0.50 | 122 | 0.053 | 1 | 1.49 | 0.009 | 0.06 | 0.4 | 0.02 | 2.2 | 0.2 | <0.05 | 5 | <0.5 |
| L4-023B | Soil | | 0.074 | 23 | 26 | 0.45 | 234 | 0.037 | 1 | 1.35 | 0.010 | 0.08 | 0.1 | 0.05 | 3.5 | 0.2 | <0.05 | 3 | <0.5 |
| L4-024 | Soil | | 0.071 | 19 | 31 | 0.47 | 232 | 0.044 | 1 | 1.39 | 0.014 | 0.08 | 0.2 | 0.06 | 4.2 | 0.2 | <0.05 | 4 | 0.7 |
| L4-025 | Soil | | 0.075 | 23 | 28 | 0.45 | 198 | 0.045 | 1 | 1.25 | 0.009 | 0.09 | 0.2 | 0.09 | 3.8 | 0.2 | <0.05 | 3 | <0.5 |
| L4-026A | Soil | | 0.076 | 19 | 32 | 0.55 | 169 | 0.064 | 1 | 1.49 | 0.013 | 0.07 | 0.3 | 0.02 | 3.6 | 0.2 | <0.05 | 4 | 0.6 |
| L4-026B | Soil | | 0.079 | 24 | 30 | 0.48 | 302 | 0.034 | 2 | 1.22 | 0.014 | 0.08 | 0.1 | 0.12 | 5.5 | 0.1 | <0.05 | 3 | <0.5 |
| L4-027 | Soil | | 0.050 | 22 | 29 | 0.44 | 249 | 0.023 | 1 | 1.56 | 0.013 | 0.08 | <0.1 | 0.08 | 4.5 | 0.1 | <0.05 | 4 | <0.5 |
| L4-028A | Soil | | 0.060 | 17 | 31 | 0.49 | 155 | 0.061 | 1 | 1.46 | 0.010 | 0.07 | 0.3 | 0.02 | 3.4 | 0.1 | <0.05 | 4 | <0.5 |
| L4-028B | Soil | | 0.069 | 17 | 30 | 0.53 | 163 | 0.055 | 1 | 1.46 | 0.012 | 0.06 | 0.3 | 0.03 | 3.4 | 0.1 | 0.10 | 5 | <0.5 |
| L4-029A | Soil | | 0.088 | 22 | 26 | 0.57 | 267 | 0.038 | 1 | 1.22 | 0.015 | 0.10 | 0.3 | 0.09 | 4.8 | 0.1 | 0.10 | 4 | <0.5 |
| L4-029B | Soil | | 0.088 | 18 | 29 | 0.56 | 140 | 0.053 | <1 | 1.49 | 0.009 | 0.06 | 0.5 | 0.02 | 3.0 | 0.1 | 0.07 | 4 | <0.5 |
| L4-030 | Soil | | 0.070 | 20 | 23 | 0.45 | 206 | 0.042 | 1 | 0.94 | 0.016 | 0.08 | 0.2 | 0.69 | 4.5 | <0.1 | 0.06 | 3 | <0.5 |
| L4-031A | Soil | | 0.080 | 17 | 28 | 0.46 | 124 | 0.048 | <1 | 1.38 | 0.010 | 0.04 | 0.4 | 0.02 | 2.5 | 0.1 | 0.07 | 5 | <0.5 |
| L4-031B | Soil | | 0.094 | 19 | 29 | 0.50 | 159 | 0.057 | <1 | 1.33 | 0.015 | 0.05 | 0.4 | 0.02 | 3.5 | 0.1 | 0.07 | 4 | <0.5 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| L4-032 | Soil | | 0.4 | 18.4 | 6.6 | 43 | <0.1 | 21.0 | 8.1 | 348 | 1.98 | 5.0 | 1.5 | 2.7 | 6.8 | 20 | <0.1 | 0.4 | 0.3 | 38 | 0.33 |
| L4-033 | Soil | | 0.4 | 17.4 | 6.0 | 40 | <0.1 | 15.4 | 6.2 | 248 | 1.69 | 6.1 | 0.7 | 2.2 | 4.0 | 21 | 0.2 | 0.7 | 0.2 | 32 | 0.32 |
| L4-034 | Soil | | 0.7 | 16.5 | 9.1 | 43 | <0.1 | 18.1 | 8.5 | 405 | 2.15 | 9.4 | 0.9 | 2.5 | 4.1 | 17 | 0.2 | 0.8 | 0.2 | 38 | 0.26 |
| L4-035A | Soil | | 0.6 | 20.8 | 7.4 | 52 | <0.1 | 24.6 | 9.3 | 376 | 2.29 | 8.0 | 2.3 | 1.8 | 5.9 | 23 | 0.1 | 0.6 | 0.2 | 48 | 0.45 |
| L4-035B | Soil | | 0.7 | 30.0 | 10.5 | 53 | <0.1 | 22.7 | 9.5 | 552 | 2.47 | 13.8 | 1.9 | 4.7 | 6.4 | 22 | 0.2 | 1.2 | 0.2 | 40 | 0.41 |
| L4-036A | Soil | | 0.5 | 15.8 | 7.4 | 45 | <0.1 | 21.0 | 7.8 | 294 | 2.09 | 7.0 | 1.4 | 5.1 | 6.6 | 22 | <0.1 | 0.5 | 0.3 | 43 | 0.37 |
| L4-036B | Soil | | 0.5 | 23.2 | 8.2 | 47 | <0.1 | 18.8 | 6.9 | 359 | 1.98 | 10.6 | 1.1 | 3.2 | 5.6 | 24 | 0.1 | 1.1 | 0.2 | 31 | 0.39 |
| L4-037 | Soil | | 0.7 | 15.0 | 8.3 | 39 | <0.1 | 18.6 | 7.7 | 239 | 2.22 | 7.0 | 1.1 | 6.3 | 4.0 | 15 | <0.1 | 0.4 | 0.3 | 45 | 0.25 |
| L4-038 | Soil | | 0.6 | 14.0 | 8.6 | 39 | <0.1 | 17.0 | 6.1 | 162 | 1.77 | 6.1 | 1.0 | 4.0 | 1.1 | 21 | <0.1 | 0.4 | 0.3 | 41 | 0.34 |
| L4-039A | Soil | | 0.1 | 12.1 | 9.4 | 51 | <0.1 | 14.2 | 4.3 | 118 | 1.23 | 3.3 | 1.3 | 2.2 | 1.2 | 15 | 0.4 | 0.4 | 0.3 | 41 | 0.24 |
| L4-039B | Soil | | 0.7 | 16.7 | 10.1 | 62 | <0.1 | 19.3 | 6.8 | 166 | 2.21 | 11.1 | 1.1 | 3.4 | 4.9 | 18 | 0.4 | 0.8 | 0.3 | 48 | 0.31 |
| L4-040A | Soil | | 0.8 | 12.1 | 7.1 | 45 | <0.1 | 14.6 | 6.0 | 247 | 1.69 | 6.1 | 1.4 | 0.6 | 6.2 | 63 | <0.1 | 0.6 | 0.2 | 39 | 0.51 |
| L4-040B | Soil | | 1.9 | 16.7 | 9.0 | 63 | <0.1 | 13.9 | 4.8 | 384 | 2.02 | 9.2 | 1.6 | 1.5 | 6.5 | 52 | <0.1 | 0.8 | 0.2 | 24 | 0.55 |
| L4-041 | Soil | | 1.3 | 21.8 | 6.7 | 61 | <0.1 | 16.2 | 4.9 | 499 | 2.18 | 7.5 | 1.5 | 2.6 | 5.9 | 25 | <0.1 | 0.8 | 0.2 | 31 | 0.41 |
| L4-042 | Soil | | 0.8 | 29.3 | 10.5 | 57 | <0.1 | 27.6 | 13.6 | 494 | 2.76 | 11.1 | 1.1 | 2.6 | 6.7 | 23 | 0.1 | 1.1 | 0.2 | 46 | 0.27 |
| L4-043A | Soil | | 0.6 | 18.8 | 8.9 | 48 | <0.1 | 22.5 | 9.6 | 353 | 2.35 | 7.5 | 1.3 | 1.8 | 7.7 | 19 | <0.1 | 0.6 | 0.4 | 44 | 0.30 |
| L4-043B | Soil | | 0.7 | 31.9 | 10.7 | 60 | <0.1 | 24.9 | 8.8 | 437 | 2.40 | 16.4 | 1.3 | 2.4 | 6.4 | 26 | <0.1 | 1.5 | 0.3 | 39 | 0.39 |
| L4-044 | Soil | | 0.4 | 18.9 | 6.5 | 47 | <0.1 | 25.0 | 8.6 | 322 | 2.03 | 4.6 | 1.0 | 1.6 | 7.0 | 24 | <0.1 | 0.5 | 0.2 | 41 | 0.40 |
| L4-045 | Soil | | 1.3 | 19.6 | 14.5 | 60 | <0.1 | 19.8 | 14.0 | 603 | 2.80 | 15.3 | 1.2 | 1.5 | 3.9 | 24 | 0.1 | 1.1 | 0.3 | 47 | 0.35 |
| L4-046A | Soil | | 0.9 | 18.2 | 9.9 | 59 | <0.1 | 27.1 | 11.1 | 373 | 2.54 | 9.0 | 1.2 | 1.3 | 6.6 | 22 | 0.2 | 0.7 | 0.3 | 47 | 0.36 |
| L4-046B | Soil | | 0.8 | 22.4 | 9.5 | 45 | <0.1 | 30.2 | 9.8 | 400 | 2.30 | 10.6 | 1.0 | 4.2 | 6.0 | 19 | 0.1 | 1.1 | 0.2 | 37 | 0.32 |
| L4-047 | Soil | | 1.2 | 19.9 | 14.9 | 67 | <0.1 | 26.0 | 7.4 | 361 | 2.22 | 17.1 | 1.1 | 1.8 | 5.3 | 26 | 0.2 | 1.5 | 0.2 | 33 | 0.40 |
| L4-048 | Soil | | 0.8 | 28.4 | 12.4 | 52 | <0.1 | 25.0 | 9.8 | 463 | 2.60 | 12.8 | 1.2 | 2.8 | 6.1 | 24 | <0.1 | 1.2 | 0.2 | 41 | 0.32 |
| L4-049A | Soil | | 0.6 | 20.8 | 8.7 | 50 | <0.1 | 25.9 | 9.7 | 353 | 2.41 | 7.4 | 1.3 | 2.7 | 8.6 | 22 | <0.1 | 0.5 | 0.4 | 47 | 0.33 |
| L4-049B | Soil | | 0.7 | 36.2 | 10.6 | 61 | <0.1 | 27.8 | 8.3 | 390 | 2.53 | 14.1 | 1.3 | 14.6 | 6.4 | 35 | <0.1 | 1.3 | 0.2 | 43 | 0.45 |
| L4-050 | Soil | | 0.8 | 21.1 | 9.4 | 52 | <0.1 | 27.8 | 10.5 | 292 | 2.47 | 9.0 | 1.2 | 1.2 | 7.9 | 16 | 0.1 | 0.6 | 0.3 | 50 | 0.24 |
| L4-051 | Soil | | 0.7 | 53.5 | 11.0 | 63 | 0.1 | 25.1 | 17.5 | 695 | 3.17 | 16.8 | 0.9 | 2.5 | 5.4 | 32 | 0.2 | 1.3 | 0.2 | 58 | 0.55 |
| L4-052 | Soil | | 0.6 | 19.9 | 9.0 | 49 | <0.1 | 25.9 | 8.7 | 336 | 2.33 | 8.5 | 1.3 | 1.2 | 6.9 | 27 | 0.1 | 0.5 | 0.3 | 48 | 0.41 |
| L4-053 | Soil | | 0.8 | 32.2 | 13.5 | 66 | <0.1 | 27.8 | 9.4 | 505 | 2.66 | 15.2 | 1.2 | 9.0 | 7.2 | 31 | 0.1 | 1.3 | 0.3 | 41 | 0.47 |
| L4-054 | Soil | | 0.8 | 30.0 | 8.8 | 46 | <0.1 | 28.2 | 10.4 | 333 | 2.48 | 10.2 | 1.0 | 1.7 | 5.6 | 21 | 0.2 | 0.8 | 0.3 | 50 | 0.31 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| L4-032 | Soil | 0.097 | 23 | 27 | 0.55 | 153 | 0.074 | <1 | 1.32 | 0.012 | 0.06 | 0.4 | 0.03 | 3.8 | 0.1 | <0.05 | 4 | <0.5 |
| L4-033 | Soil | 0.089 | 24 | 25 | 0.42 | 145 | 0.055 | <1 | 0.91 | 0.011 | 0.05 | 0.3 | 0.06 | 2.7 | <0.1 | <0.05 | 3 | <0.5 |
| L4-034 | Soil | 0.082 | 15 | 25 | 0.44 | 135 | 0.040 | <1 | 1.23 | 0.010 | 0.05 | 0.4 | 0.02 | 2.5 | 0.1 | <0.05 | 4 | 0.5 |
| L4-035A | Soil | 0.077 | 20 | 33 | 0.57 | 223 | 0.073 | <1 | 1.34 | 0.017 | 0.07 | 0.3 | 0.03 | 5.0 | 0.1 | <0.05 | 4 | <0.5 |
| L4-035B | Soil | 0.089 | 22 | 28 | 0.55 | 218 | 0.053 | <1 | 1.20 | 0.020 | 0.10 | 0.4 | 0.06 | 5.4 | 0.1 | <0.05 | 3 | <0.5 |
| L4-036A | Soil | 0.086 | 22 | 30 | 0.53 | 174 | 0.065 | <1 | 1.34 | 0.011 | 0.06 | 0.4 | 0.02 | 3.6 | 0.1 | <0.05 | 4 | <0.5 |
| L4-036B | Soil | 0.103 | 20 | 22 | 0.41 | 176 | 0.040 | 1 | 0.90 | 0.014 | 0.07 | 0.3 | 0.06 | 4.0 | <0.1 | <0.05 | 3 | <0.5 |
| L4-037 | Soil | 0.072 | 16 | 30 | 0.49 | 113 | 0.060 | <1 | 1.50 | 0.009 | 0.05 | 0.4 | 0.02 | 3.0 | 0.1 | <0.05 | 5 | <0.5 |
| L4-038 | Soil | 0.068 | 16 | 27 | 0.44 | 161 | 0.039 | <1 | 1.36 | 0.009 | 0.05 | 0.3 | 0.03 | 1.9 | 0.1 | <0.05 | 5 | <0.5 |
| L4-039A | Soil | 0.135 | 18 | 31 | 0.42 | 101 | 0.040 | <1 | 1.65 | 0.007 | 0.05 | 0.3 | 0.04 | 2.1 | 0.1 | <0.05 | 6 | <0.5 |
| L4-039B | Soil | 0.118 | 20 | 30 | 0.52 | 126 | 0.060 | 1 | 1.61 | 0.009 | 0.07 | 0.3 | 0.03 | 3.0 | 0.2 | <0.05 | 4 | <0.5 |
| L4-040A | Soil | 0.096 | 19 | 25 | 0.47 | 242 | 0.077 | 1 | 1.12 | 0.021 | 0.07 | 1.4 | 0.01 | 3.6 | <0.1 | <0.05 | 4 | <0.5 |
| L4-040B | Soil | 0.082 | 27 | 17 | 0.33 | 272 | 0.024 | 1 | 0.95 | 0.018 | 0.09 | <0.1 | 0.05 | 3.8 | 0.1 | <0.05 | 3 | <0.5 |
| L4-041 | Soil | 0.082 | 26 | 24 | 0.43 | 259 | 0.049 | <1 | 1.22 | 0.015 | 0.07 | 0.1 | 0.03 | 4.8 | 0.2 | <0.05 | 4 | 0.5 |
| L4-042 | Soil | 0.067 | 25 | 39 | 0.73 | 206 | 0.069 | 1 | 1.83 | 0.014 | 0.13 | 0.2 | 0.05 | 4.2 | 0.1 | <0.05 | 4 | <0.5 |
| L4-043A | Soil | 0.093 | 20 | 30 | 0.59 | 130 | 0.074 | <1 | 1.58 | 0.012 | 0.10 | 0.4 | 0.01 | 3.4 | 0.2 | <0.05 | 5 | <0.5 |
| L4-043B | Soil | 0.079 | 22 | 30 | 0.49 | 233 | 0.046 | <1 | 1.17 | 0.017 | 0.09 | 0.2 | 0.11 | 5.7 | 0.1 | <0.05 | 4 | 0.7 |
| L4-044 | Soil | 0.106 | 22 | 30 | 0.57 | 173 | 0.085 | <1 | 1.41 | 0.018 | 0.06 | 0.4 | <0.01 | 3.5 | 0.1 | <0.05 | 4 | <0.5 |
| L4-045 | Soil | 0.082 | 18 | 28 | 0.45 | 174 | 0.033 | 2 | 1.52 | 0.011 | 0.09 | 0.1 | 0.06 | 3.3 | 0.1 | <0.05 | 5 | <0.5 |
| L4-046A | Soil | 0.100 | 19 | 34 | 0.59 | 127 | 0.083 | 1 | 1.45 | 0.012 | 0.10 | 0.5 | 0.01 | 3.1 | 0.1 | <0.05 | 5 | <0.5 |
| L4-046B | Soil | 0.113 | 15 | 26 | 0.46 | 106 | 0.055 | <1 | 1.09 | 0.012 | 0.09 | 0.2 | 0.04 | 2.9 | <0.1 | <0.05 | 3 | <0.5 |
| L4-047 | Soil | 0.103 | 16 | 23 | 0.37 | 191 | 0.020 | <1 | 0.97 | 0.012 | 0.07 | 0.2 | 0.03 | 2.5 | 0.1 | <0.05 | 3 | <0.5 |
| L4-048 | Soil | 0.063 | 21 | 32 | 0.55 | 223 | 0.038 | 1 | 1.48 | 0.011 | 0.08 | 0.2 | 0.07 | 4.3 | 0.2 | <0.05 | 4 | <0.5 |
| L4-049A | Soil | 0.093 | 22 | 33 | 0.59 | 147 | 0.083 | 1 | 1.53 | 0.014 | 0.08 | 0.4 | 0.02 | 3.3 | 0.2 | <0.05 | 5 | <0.5 |
| L4-049B | Soil | 0.085 | 24 | 35 | 0.54 | 279 | 0.053 | 1 | 1.31 | 0.017 | 0.09 | 0.1 | 0.09 | 5.8 | 0.1 | <0.05 | 4 | <0.5 |
| L4-050 | Soil | 0.068 | 17 | 34 | 0.62 | 111 | 0.084 | 2 | 1.81 | 0.015 | 0.09 | 0.4 | 0.02 | 3.7 | 0.2 | <0.05 | 5 | <0.5 |
| L4-051 | Soil | 0.091 | 18 | 28 | 0.89 | 310 | 0.045 | 2 | 1.58 | 0.015 | 0.14 | 0.1 | 0.11 | 7.4 | 0.2 | <0.05 | 4 | <0.5 |
| L4-052 | Soil | 0.065 | 23 | 35 | 0.53 | 236 | 0.070 | 1 | 1.54 | 0.016 | 0.07 | 0.3 | 0.03 | 4.8 | 0.1 | <0.05 | 5 | <0.5 |
| L4-053 | Soil | 0.089 | 24 | 31 | 0.58 | 262 | 0.040 | 2 | 1.33 | 0.014 | 0.09 | 0.1 | 0.08 | 4.9 | 0.1 | <0.05 | 4 | <0.5 |
| L4-054 | Soil | 0.075 | 16 | 35 | 0.58 | 186 | 0.068 | 2 | 1.66 | 0.010 | 0.06 | 0.2 | 0.02 | 3.7 | 0.2 | <0.05 | 4 | <0.5 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| L4-055A | Soil | | 0.8 | 34.5 | 16.4 | 70 | <0.1 | 27.6 | 13.3 | 589 | 2.85 | 16.8 | 1.7 | 2.9 | 7.8 | 36 | <0.1 | 1.6 | 0.3 | 44 | 0.40 |
| L4-055B | Soil | | 0.9 | 39.4 | 13.5 | 81 | <0.1 | 33.3 | 13.2 | 669 | 3.01 | 18.9 | 1.1 | 2.1 | 7.7 | 48 | 0.2 | 1.7 | 0.3 | 45 | 1.17 |
| L4-056 | Soil | | 0.6 | 26.9 | 9.1 | 57 | <0.1 | 31.0 | 10.0 | 447 | 2.68 | 8.2 | 1.7 | 2.2 | 10.3 | 31 | <0.1 | 0.7 | 0.3 | 53 | 0.47 |
| L4-057 | Soil | | 0.8 | 13.8 | 8.6 | 51 | <0.1 | 24.3 | 11.0 | 390 | 2.50 | 7.4 | 1.4 | 6.4 | 7.7 | 24 | <0.1 | 0.5 | 0.3 | 47 | 0.40 |
| L4-058A | Soil | | 0.6 | 21.6 | 9.2 | 59 | 0.1 | 28.1 | 10.4 | 343 | 2.38 | 8.6 | 1.4 | 4.3 | 6.2 | 28 | 0.1 | 0.7 | 0.3 | 48 | 0.58 |
| L4-058B | Soil | | 0.8 | 29.0 | 11.9 | 71 | 0.1 | 29.5 | 11.5 | 451 | 2.57 | 12.6 | 1.4 | 1.4 | 6.8 | 36 | 0.1 | 1.2 | 0.3 | 46 | 0.62 |
| L4-059 | Soil | | 0.6 | 23.3 | 9.4 | 63 | <0.1 | 29.2 | 10.4 | 270 | 2.33 | 8.0 | 1.1 | 1.9 | 7.6 | 35 | 0.2 | 0.7 | 0.3 | 48 | 0.71 |
| L5-001 | Soil | | 0.8 | 22.4 | 10.9 | 53 | <0.1 | 24.1 | 9.8 | 416 | 2.51 | 12.1 | 1.2 | 2.3 | 6.6 | 28 | <0.1 | 1.1 | 0.2 | 44 | 0.35 |
| L5-002A | Soil | | 1.2 | 10.2 | 29.2 | 75 | 0.1 | 4.9 | 2.3 | 153 | 2.92 | 7.3 | 0.9 | <0.5 | 15.4 | 63 | <0.1 | 0.4 | 0.6 | 14 | 0.74 |
| L5-002B | Soil | | 5.9 | 22.5 | 126.0 | 182 | 0.2 | 11.7 | 8.9 | 388 | 1.36 | 8.2 | 11.7 | 1.8 | 40.2 | 95 | 0.8 | 1.2 | 1.0 | 18 | 1.20 |
| L5-003A | Soil | | 0.9 | 35.8 | 13.3 | 67 | <0.1 | 27.7 | 11.2 | 525 | 2.91 | 14.9 | 1.4 | 1.6 | 8.6 | 42 | 0.1 | 1.3 | 0.3 | 40 | 0.56 |
| L5-003B | Soil | | 1.0 | 35.1 | 40.5 | 78 | 0.1 | 29.7 | 10.5 | 610 | 2.66 | 22.1 | 1.9 | 1.7 | 9.5 | 62 | 0.3 | 2.3 | 0.3 | 40 | 0.93 |
| L5-004A | Soil | | 0.9 | 30.7 | 15.6 | 71 | <0.1 | 23.9 | 16.1 | 790 | 2.47 | 13.5 | 1.4 | 2.4 | 7.3 | 34 | 0.2 | 1.0 | 0.2 | 34 | 0.37 |
| L5-004B | Soil | | 3.5 | 20.7 | 31.7 | 96 | 0.2 | 31.3 | 8.0 | 475 | 1.05 | 6.8 | 4.5 | 0.7 | 14.8 | 71 | 0.4 | 1.2 | 0.5 | 16 | 1.23 |
| L5-005 | Soil | | 1.2 | 27.7 | 18.3 | 87 | 0.1 | 21.5 | 8.8 | 500 | 2.26 | 13.2 | 2.0 | 2.1 | 9.1 | 46 | 0.2 | 1.2 | 0.3 | 32 | 0.69 |
| L5-006 | Soil | | 1.4 | 21.9 | 11.6 | 67 | 0.1 | 23.0 | 13.0 | 584 | 3.41 | 5.9 | 2.1 | <0.5 | 6.4 | 44 | 0.2 | 0.2 | 0.1 | 69 | 0.69 |
| L5-007A | Soil | | 4.3 | 13.3 | 22.3 | 93 | 0.1 | 12.0 | 5.6 | 296 | 2.01 | 18.4 | 2.2 | <0.5 | 6.6 | 60 | 0.2 | 0.3 | 0.3 | 14 | 0.49 |
| L5-007B | Soil | | 6.1 | 18.2 | 27.6 | 78 | 0.1 | 21.6 | 7.9 | 126 | 3.49 | 63.3 | 2.3 | <0.5 | 5.5 | 81 | <0.1 | 0.7 | 0.3 | 14 | 0.59 |
| L5-008 | Soil | | 1.3 | 29.6 | 19.7 | 53 | <0.1 | 18.5 | 10.4 | 1981 | 3.21 | 21.1 | 1.1 | 17.2 | 5.2 | 38 | <0.1 | 1.7 | 0.2 | 48 | 0.21 |
| L5-009 | Soil | | 0.6 | 25.4 | 9.0 | 52 | <0.1 | 29.6 | 11.5 | 347 | 2.74 | 8.8 | 1.7 | 5.5 | 10.2 | 23 | <0.1 | 0.7 | 0.3 | 56 | 0.29 |
| L5-010 | Soil | | 0.7 | 36.7 | 8.8 | 53 | <0.1 | 30.5 | 11.9 | 490 | 2.86 | 19.6 | 1.2 | 4.8 | 6.5 | 30 | <0.1 | 0.8 | 0.2 | 58 | 0.35 |
| L5-011A | Soil | | 0.7 | 48.6 | 9.6 | 65 | <0.1 | 23.1 | 10.6 | 507 | 2.69 | 12.3 | 1.0 | 2.9 | 5.7 | 30 | 0.1 | 0.9 | 0.2 | 43 | 0.42 |
| L5-011B | Soil | | 0.2 | 25.0 | 3.8 | 30 | <0.1 | 2.6 | 8.0 | 989 | 2.55 | 3.5 | 0.3 | 2.4 | 2.2 | 21 | <0.1 | 0.1 | <0.1 | 14 | 0.14 |
| L6-001 | Soil | | 0.6 | 43.3 | 7.3 | 51 | <0.1 | 25.2 | 14.4 | 748 | 2.89 | 8.7 | 1.1 | 1.2 | 6.5 | 39 | <0.1 | 0.8 | 0.2 | 69 | 0.43 |
| L6-002 | Soil | | 0.5 | 27.5 | 7.8 | 56 | <0.1 | 17.8 | 9.1 | 611 | 2.49 | 11.7 | 0.9 | 18.0 | 5.7 | 32 | <0.1 | 0.7 | 0.1 | 35 | 0.29 |
| L6-003 | Soil | | 0.7 | 25.3 | 8.8 | 49 | <0.1 | 28.9 | 11.1 | 394 | 2.61 | 9.8 | 1.3 | 2.6 | 8.5 | 22 | <0.1 | 0.8 | 0.2 | 50 | 0.32 |
| L6-004 | Soil | | 0.7 | 27.9 | 9.5 | 53 | <0.1 | 30.0 | 11.0 | 521 | 2.68 | 12.8 | 1.6 | 5.8 | 8.1 | 30 | <0.1 | 0.9 | 0.3 | 50 | 0.39 |
| L6-005 | Soil | | 0.8 | 24.0 | 8.5 | 48 | <0.1 | 24.8 | 12.7 | 491 | 2.52 | 13.3 | 0.9 | 5.1 | 5.6 | 24 | <0.1 | 0.8 | 0.2 | 47 | 0.29 |
| L6-006 | Soil | | 0.8 | 38.7 | 9.7 | 58 | <0.1 | 28.9 | 11.8 | 738 | 3.06 | 15.5 | 1.3 | 3.7 | 6.3 | 63 | 0.1 | 0.8 | 0.2 | 56 | 0.50 |
| L6-007 | Soil | | 0.9 | 15.0 | 7.3 | 45 | <0.1 | 18.6 | 6.7 | 186 | 2.23 | 8.8 | 0.7 | 1.8 | 4.8 | 19 | 0.2 | 0.6 | 0.3 | 52 | 0.20 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| MDL | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| L4-055A | Soil | 0.061 | 26 | 33 | 0.53 | 353 | 0.025 | <1 | 1.61 | 0.013 | 0.10 | 0.1 | 0.08 | 5.7 | 0.2 | <0.05 | 5 | 0.5 |
| L4-055B | Soil | 0.102 | 22 | 34 | 0.73 | 302 | 0.046 | <1 | 1.32 | 0.018 | 0.15 | 0.1 | 0.11 | 5.0 | 0.2 | <0.05 | 4 | <0.5 |
| L4-056 | Soil | 0.097 | 28 | 40 | 0.67 | 254 | 0.093 | <1 | 1.56 | 0.027 | 0.08 | 0.4 | 0.02 | 6.0 | 0.2 | <0.05 | 5 | <0.5 |
| L4-057 | Soil | 0.110 | 21 | 34 | 0.63 | 160 | 0.082 | <1 | 1.64 | 0.011 | 0.09 | 0.6 | <0.01 | 3.2 | 0.2 | <0.05 | 5 | 0.6 |
| L4-058A | Soil | 0.098 | 20 | 34 | 0.58 | 236 | 0.070 | <1 | 1.44 | 0.017 | 0.07 | 0.4 | 0.07 | 4.2 | 0.1 | <0.05 | 5 | 0.6 |
| L4-058B | Soil | 0.092 | 21 | 35 | 0.58 | 280 | 0.055 | 1 | 1.46 | 0.016 | 0.10 | 0.3 | 0.08 | 4.7 | 0.1 | <0.05 | 5 | 0.5 |
| L4-059 | Soil | 0.111 | 21 | 36 | 0.60 | 240 | 0.083 | <1 | 1.40 | 0.022 | 0.09 | 0.5 | 0.03 | 4.0 | 0.1 | <0.05 | 5 | 0.6 |
| L5-001 | Soil | 0.069 | 20 | 31 | 0.51 | 205 | 0.049 | <1 | 1.53 | 0.011 | 0.08 | 0.2 | 0.06 | 3.8 | 0.2 | <0.05 | 4 | <0.5 |
| L5-002A | Soil | 0.036 | 15 | 8 | 0.15 | 121 | 0.001 | 7 | 1.32 | 0.015 | 0.03 | <0.1 | 0.03 | 1.3 | <0.1 | <0.05 | 3 | <0.5 |
| L5-002B | Soil | 0.023 | 42 | 6 | 0.13 | 244 | 0.043 | <1 | 0.79 | 0.014 | 0.06 | 0.1 | 0.07 | 5.3 | 0.2 | 0.18 | 3 | 1.2 |
| L5-003A | Soil | 0.074 | 27 | 31 | 0.59 | 433 | 0.025 | 3 | 1.55 | 0.014 | 0.10 | <0.1 | 0.12 | 5.7 | 0.2 | <0.05 | 4 | <0.5 |
| L5-003B | Soil | 0.080 | 25 | 31 | 0.53 | 489 | 0.012 | 2 | 1.34 | 0.023 | 0.10 | 0.1 | 0.32 | 6.2 | 0.2 | <0.05 | 4 | 0.6 |
| L5-004A | Soil | 0.067 | 23 | 26 | 0.43 | 306 | 0.017 | <1 | 1.43 | 0.018 | 0.09 | <0.1 | 0.06 | 3.4 | 0.1 | <0.05 | 4 | <0.5 |
| L5-004B | Soil | 0.024 | 48 | 14 | 0.19 | 715 | 0.026 | <1 | 1.00 | 0.054 | 0.08 | <0.1 | 0.09 | 3.4 | 0.2 | 0.12 | 3 | 0.6 |
| L5-005 | Soil | 0.068 | 24 | 24 | 0.38 | 366 | 0.010 | <1 | 1.22 | 0.016 | 0.10 | <0.1 | 0.11 | 4.8 | 0.2 | <0.05 | 4 | <0.5 |
| L5-006 | Soil | 0.149 | 16 | 52 | 0.12 | 129 | 0.003 | <1 | 0.86 | 0.018 | 0.09 | <0.1 | 2.31 | 15.0 | 0.2 | <0.05 | 3 | 0.7 |
| L5-007A | Soil | 0.015 | 10 | 11 | 0.06 | 453 | <0.001 | 1 | 0.66 | 0.012 | 0.12 | <0.1 | 10.46 | 7.2 | 0.5 | 0.11 | 2 | <0.5 |
| L5-007B | Soil | 0.008 | 4 | 10 | 0.08 | 408 | 0.001 | 2 | 0.70 | 0.032 | 0.21 | <0.1 | 15.38 | 7.3 | 1.5 | 0.32 | 3 | <0.5 |
| L5-008 | Soil | 0.105 | 17 | 31 | 0.42 | 898 | 0.037 | 1 | 1.74 | 0.009 | 0.14 | 0.4 | 0.44 | 4.3 | 0.1 | <0.05 | 5 | <0.5 |
| L5-009 | Soil | 0.065 | 22 | 40 | 0.62 | 225 | 0.089 | 1 | 1.92 | 0.013 | 0.08 | 0.4 | 0.08 | 4.2 | 0.2 | <0.05 | 6 | <0.5 |
| L5-010 | Soil | 0.057 | 19 | 41 | 0.68 | 341 | 0.081 | 1 | 1.92 | 0.014 | 0.08 | 0.2 | 0.13 | 5.3 | 0.2 | <0.05 | 6 | <0.5 |
| L5-011A | Soil | 0.102 | 20 | 28 | 0.56 | 455 | 0.053 | 2 | 1.26 | 0.012 | 0.15 | 0.2 | 0.27 | 4.7 | <0.1 | <0.05 | 4 | <0.5 |
| L5-011B | Soil | 0.057 | 10 | 5 | 0.06 | 373 | 0.013 | 1 | 0.28 | 0.003 | 0.13 | <0.1 | 0.05 | 3.4 | <0.1 | <0.05 | <1 | <0.5 |
| L6-001 | Soil | 0.068 | 29 | 56 | 1.14 | 587 | 0.103 | <1 | 1.71 | 0.014 | 0.19 | 0.2 | 1.04 | 5.6 | <0.1 | <0.05 | 5 | <0.5 |
| L6-002 | Soil | 0.077 | 22 | 21 | 0.39 | 818 | 0.043 | 1 | 0.97 | 0.011 | 0.13 | 0.1 | 2.91 | 4.2 | <0.1 | <0.05 | 3 | <0.5 |
| L6-003 | Soil | 0.077 | 22 | 34 | 0.63 | 408 | 0.074 | <1 | 1.69 | 0.014 | 0.09 | 0.3 | 0.06 | 3.8 | 0.2 | <0.05 | 5 | <0.5 |
| L6-004 | Soil | 0.087 | 24 | 38 | 0.65 | 295 | 0.079 | 1 | 1.75 | 0.014 | 0.11 | 0.3 | 0.10 | 4.4 | 0.2 | <0.05 | 5 | 0.7 |
| L6-005 | Soil | 0.076 | 16 | 30 | 0.60 | 210 | 0.073 | 1 | 1.50 | 0.010 | 0.12 | 0.3 | 0.05 | 3.2 | 0.1 | <0.05 | 4 | <0.5 |
| L6-006 | Soil | 0.075 | 22 | 37 | 0.53 | 603 | 0.031 | 2 | 1.65 | 0.021 | 0.11 | <0.1 | 2.05 | 7.8 | 0.2 | <0.05 | 5 | <0.5 |
| L6-007 | Soil | 0.071 | 13 | 27 | 0.36 | 116 | 0.070 | <1 | 1.37 | 0.015 | 0.07 | 0.3 | 0.10 | 2.2 | 0.1 | <0.05 | 6 | <0.5 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| L6-008 | Soil | | 1.2 | 38.0 | 22.2 | 69 | 0.1 | 33.4 | 16.1 | 845 | 3.56 | 26.3 | 1.7 | 2.7 | 8.3 | 38 | 0.3 | 3.0 | 0.2 | 54 | 0.46 |
| L6-009 | Soil | | 0.8 | 30.7 | 11.3 | 61 | <0.1 | 27.6 | 10.4 | 511 | 2.64 | 14.6 | 1.5 | 6.1 | 7.6 | 36 | <0.1 | 1.2 | 0.2 | 43 | 0.49 |
| L6-010 | Soil | | 0.5 | 21.6 | 5.1 | 26 | 0.1 | 15.7 | 9.1 | 300 | 1.08 | 3.4 | 1.3 | 7.0 | 0.4 | 34 | <0.1 | 0.4 | 0.1 | 23 | 0.69 |
| L6-011A | Soil | | 0.9 | 18.5 | 10.0 | 53 | <0.1 | 19.0 | 11.7 | 630 | 2.19 | 7.4 | 1.3 | 1.6 | 4.1 | 34 | 0.1 | 0.6 | 0.2 | 37 | 0.64 |
| L6-011B | Soil | | 0.9 | 21.5 | 10.2 | 68 | <0.1 | 21.6 | 11.2 | 445 | 2.41 | 9.6 | 1.4 | 3.1 | 3.6 | 39 | 0.3 | 0.8 | 0.2 | 43 | 0.72 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# CERTIFICATE OF ANALYSIS VAN09005540.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| MDL | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| L6-008 | Soil | 0.106 | 25 | 38 | 0.66 | 375 | 0.043 | 1 | 1.88 | 0.017 | 0.14 | 0.3 | 0.13 | 5.3 | 0.2 | <0.05 | 5 | <0.5 |
| L6-009 | Soil | 0.076 | 26 | 32 | 0.54 | 330 | 0.034 | 2 | 1.56 | 0.017 | 0.10 | 0.1 | 0.11 | 5.8 | 0.2 | <0.05 | 4 | <0.5 |
| L6-010 | Soil | 0.092 | 15 | 15 | 0.22 | 267 | 0.015 | 1 | 1.14 | 0.046 | 0.05 | 0.1 | 0.08 | 1.6 | 0.1 | <0.05 | 3 | <0.5 |
| L6-011A | Soil | 0.100 | 21 | 27 | 0.44 | 253 | 0.040 | 2 | 1.29 | 0.020 | 0.07 | 0.3 | 0.06 | 3.1 | 0.1 | <0.05 | 4 | <0.5 |
| L6-011B | Soil | 0.099 | 22 | 26 | 0.46 | 280 | 0.035 | 3 | 1.36 | 0.021 | 0.07 | 0.3 | 0.10 | 3.3 | 0.1 | <0.05 | 4 | <0.5 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

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Report Date: December 02, 2009



# QUALITY CONTROL REPORT VAN09005540.1

| Method | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| L1-010 | Soil | | 0.9 | 27.8 | 2.8 | 23 | 0.1 | 14.2 | 5.7 | 369 | 0.99 | 3.3 | 1.7 | 1.4 | 1.0 | 44 | 0.2 | 0.6 | 0.1 | 19 | 1.06 |
| REP L1-010 | QC | | 0.9 | 28.3 | 2.6 | 23 | 0.1 | 14.2 | 5.6 | 374 | 0.79 | 3.5 | 1.8 | 0.7 | 1.3 | 46 | 0.2 | 0.6 | 0.1 | 19 | 1.10 |
| L2-005A | Soil | | 1.0 | 12.8 | 6.0 | 43 | <0.1 | 17.3 | 7.8 | 325 | 1.86 | 4.9 | 1.4 | <0.5 | 5.1 | 20 | <0.1 | 0.3 | 0.2 | 42 | 0.39 |
| REP L2-005A | QC | | 1.2 | 13.1 | 5.8 | 41 | <0.1 | 17.0 | 7.8 | 318 | 1.83 | 5.1 | 1.4 | 1.6 | 5.0 | 20 | <0.1 | 0.3 | 0.2 | 41 | 0.40 |
| L4-002 | Soil | | 0.6 | 22.3 | 8.5 | 53 | <0.1 | 17.1 | 8.9 | 259 | 1.92 | 6.2 | 1.1 | 1.1 | 4.5 | 23 | 0.2 | 0.6 | 0.2 | 35 | 0.35 |
| REP L4-002 | QC | | 0.6 | 20.9 | 8.6 | 51 | <0.1 | 16.5 | 8.7 | 248 | 1.90 | 6.4 | 1.1 | 2.6 | 4.6 | 22 | 0.2 | 0.6 | 0.2 | 36 | 0.36 |
| L4-015 | Soil | | 0.9 | 29.0 | 9.9 | 53 | <0.1 | 11.7 | 12.2 | 962 | 2.14 | 9.1 | 0.6 | 12.8 | 4.1 | 17 | 0.1 | 0.5 | 0.2 | 42 | 0.16 |
| REP L4-015 | QC | | 0.9 | 30.0 | 9.7 | 54 | <0.1 | 11.1 | 12.2 | 930 | 2.19 | 9.4 | 0.6 | 12.1 | 4.4 | 18 | 0.1 | 0.6 | 0.2 | 43 | 0.17 |
| L4-029A | Soil | | 0.8 | 33.0 | 10.8 | 62 | <0.1 | 23.9 | 9.1 | 471 | 2.43 | 13.8 | 1.1 | 4.2 | 5.9 | 33 | <0.1 | 1.3 | 0.2 | 35 | 0.41 |
| REP L4-029A | QC | | 0.7 | 34.7 | 11.1 | 62 | <0.1 | 25.2 | 9.3 | 500 | 2.56 | 14.1 | 1.0 | 4.7 | 6.0 | 31 | 0.1 | 1.3 | 0.2 | 37 | 0.40 |
| L4-040B | Soil | | 1.9 | 16.7 | 9.0 | 63 | <0.1 | 13.9 | 4.8 | 384 | 2.02 | 9.2 | 1.6 | 1.5 | 6.5 | 52 | <0.1 | 0.8 | 0.2 | 24 | 0.55 |
| REP L4-040B | QC | | 1.8 | 16.6 | 8.6 | 62 | <0.1 | 13.9 | 4.7 | 388 | 2.00 | 8.7 | 1.6 | 1.9 | 6.2 | 54 | <0.1 | 1.0 | 0.2 | 24 | 0.56 |
| L5-007A | Soil | | 4.3 | 13.3 | 22.3 | 93 | 0.1 | 12.0 | 5.6 | 296 | 2.01 | 18.4 | 2.2 | <0.5 | 6.6 | 60 | 0.2 | 0.3 | 0.3 | 14 | 0.49 |
| REP L5-007A | QC | | 4.1 | 13.3 | 22.6 | 94 | 0.1 | 12.8 | 5.7 | 301 | 2.08 | 18.8 | 2.2 | 1.3 | 6.6 | 60 | 0.2 | 0.4 | 0.3 | 14 | 0.50 |
| L5-009 | Soil | | 0.6 | 25.4 | 9.0 | 52 | <0.1 | 29.6 | 11.5 | 347 | 2.74 | 8.8 | 1.7 | 5.5 | 10.2 | 23 | <0.1 | 0.7 | 0.3 | 56 | 0.29 |
| REP L5-009 | QC | | 0.6 | 24.4 | 9.0 | 50 | <0.1 | 28.4 | 10.7 | 337 | 2.66 | 8.6 | 1.7 | 2.6 | 10.1 | 23 | <0.1 | 0.7 | 0.3 | 55 | 0.30 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | | 20.4 | 113.5 | 68.5 | 418 | 0.9 | 59.9 | 9.6 | 644 | 2.51 | 59.5 | 5.2 | 66.8 | 5.0 | 85 | 7.6 | 7.0 | 5.0 | 87 | 1.05 |
| STD DS7 | Standard | | 22.0 | 113.2 | 69.7 | 416 | 0.9 | 60.2 | 9.7 | 637 | 2.49 | 59.2 | 5.4 | 70.5 | 5.0 | 80 | 6.7 | 6.8 | 5.1 | 85 | 1.04 |
| STD DS7 | Standard | | 20.4 | 112.0 | 70.0 | 390 | 0.8 | 54.5 | 9.0 | 580 | 2.35 | 53.5 | 5.1 | 61.7 | 4.2 | 79 | 7.4 | 6.7 | 5.0 | 82 | 0.96 |
| STD DS7 | Standard | | 19.5 | 110.9 | 69.3 | 411 | 0.8 | 56.5 | 9.2 | 586 | 2.25 | 51.0 | 4.6 | 57.2 | 4.3 | 70 | 6.5 | 6.0 | 4.7 | 81 | 0.93 |
| STD DS7 | Standard | | 21.6 | 94.6 | 55.9 | 387 | 0.8 | 54.4 | 9.1 | 598 | 2.36 | 52.9 | 4.1 | 60.7 | 3.6 | 75 | 5.5 | 5.3 | 3.9 | 81 | 0.97 |
| STD DS7 | Standard | | 19.4 | 109.0 | 69.2 | 384 | 0.8 | 54.6 | 8.9 | 570 | 2.18 | 52.3 | 5.0 | 64.0 | 4.5 | 69 | 6.6 | 6.4 | 4.8 | 81 | 0.97 |
| STD DS7 Expected | | | 20.5 | 109 | 70.6 | 411 | 0.9 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 70 | 4.4 | 69 | 6.4 | 4.6 | 4.5 | 84 | 0.93 |
| BLK | Blank | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
Report Date: December 02, 2009



# QUALITY CONTROL REPORT VAN09005540.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| L1-010 | Soil | 0.064 | 18 | 12 | 0.15 | 210 | 0.019 | <1 | 0.74 | 0.017 | 0.04 | 0.1 | 0.05 | 1.3 | <0.1 | 0.09 | 2 | 0.9 |
| REP L1-010 | QC | 0.068 | 19 | 12 | 0.16 | 214 | 0.025 | <1 | 0.80 | 0.017 | 0.06 | 0.2 | 0.06 | 1.9 | <0.1 | 0.12 | 2 | 0.6 |
| L2-005A | Soil | 0.080 | 21 | 28 | 0.49 | 199 | 0.054 | <1 | 1.35 | 0.012 | 0.05 | 0.4 | 0.02 | 2.7 | 0.1 | <0.05 | 4 | 0.6 |
| REP L2-005A | QC | 0.075 | 22 | 28 | 0.48 | 204 | 0.056 | <1 | 1.32 | 0.012 | 0.06 | 0.4 | 0.02 | 2.7 | 0.1 | <0.05 | 4 | <0.5 |
| L4-002 | Soil | 0.091 | 17 | 25 | 0.46 | 248 | 0.039 | <1 | 1.19 | 0.016 | 0.06 | 0.3 | 0.04 | 3.1 | 0.1 | <0.05 | 4 | <0.5 |
| REP L4-002 | QC | 0.093 | 16 | 25 | 0.48 | 235 | 0.040 | <1 | 1.21 | 0.015 | 0.07 | 0.3 | 0.04 | 3.1 | 0.1 | <0.05 | 4 | <0.5 |
| L4-015 | Soil | 0.081 | 12 | 20 | 0.29 | 475 | 0.036 | 2 | 1.23 | 0.013 | 0.11 | 0.2 | 0.19 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |
| REP L4-015 | QC | 0.083 | 14 | 20 | 0.29 | 506 | 0.045 | 2 | 1.24 | 0.013 | 0.12 | 0.3 | 0.18 | 3.3 | 0.1 | <0.05 | 4 | <0.5 |
| L4-029A | Soil | 0.088 | 22 | 26 | 0.57 | 267 | 0.038 | 1 | 1.22 | 0.015 | 0.10 | 0.3 | 0.09 | 4.8 | 0.1 | 0.10 | 4 | <0.5 |
| REP L4-029A | QC | 0.084 | 22 | 26 | 0.55 | 260 | 0.034 | 2 | 1.18 | 0.014 | 0.09 | 0.2 | 0.11 | 5.1 | 0.1 | 0.06 | 4 | <0.5 |
| L4-040B | Soil | 0.082 | 27 | 17 | 0.33 | 272 | 0.024 | 1 | 0.95 | 0.018 | 0.09 | <0.1 | 0.05 | 3.8 | 0.1 | <0.05 | 3 | <0.5 |
| REP L4-040B | QC | 0.079 | 29 | 17 | 0.35 | 283 | 0.032 | <1 | 1.01 | 0.018 | 0.09 | 0.2 | 0.04 | 3.7 | 0.1 | <0.05 | 3 | <0.5 |
| L5-007A | Soil | 0.015 | 10 | 11 | 0.06 | 453 | <0.001 | 1 | 0.66 | 0.012 | 0.12 | <0.1 | 10.46 | 7.2 | 0.5 | 0.11 | 2 | <0.5 |
| REP L5-007A | QC | 0.016 | 9 | 11 | 0.06 | 465 | 0.002 | 3 | 0.68 | 0.011 | 0.13 | <0.1 | 10.32 | 7.5 | 0.6 | 0.10 | 2 | <0.5 |
| L5-009 | Soil | 0.065 | 22 | 40 | 0.62 | 225 | 0.089 | 1 | 1.92 | 0.013 | 0.08 | 0.4 | 0.08 | 4.2 | 0.2 | <0.05 | 6 | <0.5 |
| REP L5-009 | QC | 0.063 | 22 | 39 | 0.60 | 217 | 0.090 | 1 | 1.92 | 0.015 | 0.08 | 0.4 | 0.09 | 4.2 | 0.2 | <0.05 | 5 | <0.5 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 0.089 | 14 | 208 | 1.06 | 420 | 0.140 | 42 | 1.07 | 0.103 | 0.45 | 4.2 | 0.18 | 2.7 | 4.6 | 0.24 | 5 | 4.0 |
| STD DS7 | Standard | 0.085 | 14 | 206 | 1.07 | 432 | 0.129 | 44 | 1.07 | 0.108 | 0.42 | 3.9 | 0.20 | 2.6 | 4.4 | 0.20 | 5 | 3.6 |
| STD DS7 | Standard | 0.083 | 14 | 175 | 0.96 | 395 | 0.128 | 41 | 0.95 | 0.090 | 0.39 | 3.7 | 0.18 | 2.6 | 4.1 | 0.23 | 5 | 3.4 |
| STD DS7 | Standard | 0.082 | 13 | 181 | 1.01 | 392 | 0.120 | 37 | 0.96 | 0.093 | 0.41 | 4.1 | 0.18 | 2.3 | 4.0 | 0.28 | 4 | 3.6 |
| STD DS7 | Standard | 0.079 | 12 | 217 | 0.98 | 384 | 0.105 | 37 | 0.95 | 0.098 | 0.39 | 3.6 | 0.18 | 1.9 | 4.0 | 0.19 | 4 | 3.7 |
| STD DS7 | Standard | 0.082 | 12 | 189 | 1.00 | 393 | 0.122 | 39 | 0.93 | 0.089 | 0.39 | 3.7 | 0.18 | 2.2 | 4.1 | 0.17 | 4 | 3.1 |
| STD DS7 Expected | | 0.08 | 12 | 179 | 1.05 | 370 | 0.124 | 39 | 0.959 | 0.089 | 0.44 | 3.4 | 0.2 | 2.5 | 4.2 | 0.19 | 5 | 3.5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |

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Vancouver BC V6C 2G8 Canada

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Report Date: December 02, 2009



# QUALITY CONTROL REPORT VAN09005540.1

| | | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| BLK | Blank | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |

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.

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

Client: **Westgold Minerals Incorporated**
Suite 830 - 355 Burrard Street
Vancouver BC V6C 2G8 Canada

Project: Snowcap
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| | | 1DX15 P % 0.001 | 1DX15 La ppm 1 | 1DX15 Cr ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Ba ppm 1 | 1DX15 Ti % 0.001 | 1DX15 B ppm 1 | 1DX15 Al % 0.01 | 1DX15 Na % 0.001 | 1DX15 K % 0.01 | 1DX15 W ppm 0.1 | 1DX15 Hg ppm 0.01 | 1DX15 Sc ppm 0.1 | 1DX15 Tl ppm 0.1 | 1DX15 S % 0.05 | 1DX15 Ga ppm 1 | 1DX15 Se ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |

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