Telephone: 604-688-2568

Fax: 604-688-2578

#### ASSESSMENT REPORT

describing

#### PROSPECTING AND ROCK GEOCHEMICAL SAMPLING

at the

#### **HI PROPERTY**

HI 1-12 YC89649-YC89660 13 YD71471

NTS 105G/06 Latitude 61°24'N; Longitude 131°18'W

located in the

Watson Lake Mining District Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

### WOLVERINE MINERALS CORP. and STRATEGIC METALS LTD.

by

A. Mitchell, B.Sc. Geology

March 2012

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## **INTRODUCTION**

The HI property covers a system of auriferous quartz-arsenopyrite veins that lie near the Tintina Fault in southeastern Yukon. Wolverine Minerals Corp. can earn a 100% interest in the property subject to an option agreement with Strategic Metals Ltd.

This report describes an exploration program that was conducted by Archer, Cathro & Associates (1981) Limited in summer 2011 on behalf of Wolverine. The work was performed on July 7 to 9 and 21, and it comprised prospecting and rock geochemical sampling. The author interpreted all data from this project and his Statement of Qualifications is in Appendix I.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The HI property is located in southeastern Yukon at latitude 61°24′ north and longitude 131°18′ west on NTS map sheet 105G/06 (Figure 1). It comprises 13 contiguous quartz claims that cover an area of approximately 250 hectares (2.5 sq. km.). The claims are all registered with the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	Expiry Date*
HI 1-12	YC89649-YC89660	March 31, 2019
13	YD71471	March 31, 2016

\* Expiry dates do not include 2011 work which has not yet been filed for assessment credit.

Access to and from the property was provided by a Hughes 500D helicopter operated by Kluane Airways from the Inconnu Fishing Lodge on McEvoy Lake, which is located 75 km to the northeast of the property.

The HI property lies about 90 km southeast of the community of Ross River, the nearest supply centre. The closest road access is from the Robert Campbell Highway, which at its nearest point is 35 km to the north of the property. The Robert Campbell Highway is usable in all seasons by two wheel drive vehicles.

## HISTORY AND PREVIOUS WORK

In 1987, the Geological Survey of Canada (GSC) completed a regional stream sediment sampling program on NTS map sheet 105G (Friske et al, 2008). A sample from a creek to the north of the HI property returned strongly anomalous values for arsenic (400 ppm) and a moderately elevated value for gold (28 ppb).

In 1996, Jim Dodge (Dodgex Ltd.) discovered arsenopyrite- and pyrite-bearing quartz boulders on a ridge-top while following up the anomalous GSC stream sediment sample. Initial prospecting and hand trenching reportedly returned gold grades between 1.0 and 5.8 g/t (Heon and Dodge, 2003). Dodgex staked the Maui 1 to 16 claims to cover this discovery.



![](_page_5_Figure_0.jpeg)

In 1997, Dodgex optioned the property to Brett Resources Inc, which then added another 96 claims. In 1997 and 1998, Brett Resources completed geological mapping, prospecting, hand trenching and geochemical sampling. Several zones of gold±arsenic± silver±lead±zinc mineralization were identified on the Maui property, but the most promising zone is still Dodgex's arsenopyrite- and pyrite-bearing quartz veins. Areas of elevated soil geochemistry were also outlined.

Brett Resources dropped the option, and in 2002, Dodgex conducted additional hand trenching.

In 2003, Solomon Resources optioned the property and carried out geological mapping, prospecting, hand trenching and further tested and extended the soil grid. Only one of five trenches reached bedrock. Several samples from this trench yielded strongly anomalous values for gold, silver and bismuth (see Mineralization section for results).

All but one of the Maui claims subsequently lapsed, with the sole remaining claim covering the auriferous quartz-arsenopyrite veins that had been exposed by trenching.

In late 2009, Strategic Metals staked the HI claims to cover gold and arsenic soil anomalies adjacent to the known auriferous vein system.

In summer 2010, Strategic Metals collected a total of 250 soil samples (Eaton, 2010), including four samples from the floor of a trench dug that year (TR10-01). The samples returned some moderately to strongly anomalous values for gold (up to 160 ppb), arsenic (up to 4450 ppm) and lead (up to 1400 ppm), and weakly to moderately anomalous values for silver (up to 3 ppm) and zinc (up to 1340 ppm).

Wolverine signed an optional purchase agreement with Strategic in September 2010. In October 2010, Wolverine staked the HI 13 claim after that claim previously held by Dodgex expired.

## **GEOMORPHOLOGY**

The HI property is situated in the St. Cyr Range of the Pelly Mountains. It is drained by creeks that flow into the Hoole River, which ultimately connects to the Pacific Ocean via the Pelly and Yukon Rivers.

The property covers a southeast to northwest trending, flat-topped ridge and parts of its moderately steep northern slope and very steep southern flank. The area is characterized as alpine to subalpine. Elevations range from about 1250 to 1700 m above sea level (asl). Outcrop exposure is sparse to moderate and is generally restricted to deeply incised creek cuts and steep slopes. Most of the property lies above treeline, which is at approximately 1500 m asl. Slopes above that elevation are characterized by alpine tundra and talus. Alpine vegetation primarily comprises low grasses and staghorn moss. The density and size of vegetation gradually increases on lower slopes, which are treed with fir and spruce. Understorey consists of low shrubs and moss. The creeks draining the north side of the ridge have been informally named Caribou Creek (west) and Ptarmigan Creek (east).

The property is blanketed by thin but extensive overburden. Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago

(Yukon Geological Survey, 2010). Finlayson Lake map area was affected by three lobes of that ice sheet. The Cassiar lobe, which flowed in a northwesterly direction, covered the area southwest of the Pelly Mountains. The Liard lobe, which flowed east to southeast, covered the area southeast of the Pelly Mountains. The area north of the Pelly Mountains was covered by the east-northeast flowing Selwyn lobe. A complex system of ice-caps and cirque glaciers was active at high elevations in the Pelly Mountains and contributed to the ice bodies surrounding them.

![](_page_7_Picture_2.jpeg)

Typical terrain and vegetation at the HI

The climate in the HI area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from early June to late September.

## **REGIONAL GEOLOGY**

The HI property, though not of primary interest for base metals, lies within the Finlayson Lake Volcanogenic Massive Sulphide (VMS) District of southeastern Yukon. This district has been the focus of numerous government and industry sponsored studies due its VMS potential. The Geological Survey of Canada mapped the Finlayson Lake area (NTS map sheet 105G) twice at a 1:250,000 scale (Wheeler *et al.*, 1960 and Tempelman-Kluit, 1977). In the late 1990s and early 2000s, the Yukon Geological Survey performed more detailed (1:50,000 scale) mapping in the area and in 2002, it completed a geological compilation and updated the lithological names (Bond *et al.*, 2002). In 2003, Gordey and Makepeace incorporated this data into a Yukon-wide geological compilation. The following geological descriptions are based on the published data.

The Finlayson Lake District is located within an outlier of Yukon-Tanana and Slide Mountain Terranes (Figure 3) and affiliated overlap assemblages (Murphy *et al.*, 2006). It is bounded by the Tintina Fault in the southwest and the Inconnu Thrust Fault in the northeast.

The Yukon-Tanana and Slide Mountain Terranes represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during late Devonian through Permian (Murphy *et al.*, 2006). In the Finlayson Lake District these terranes are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites. Rocks of the Slide Mountain Terrane are not present within the HI property area.

![](_page_8_Figure_0.jpeg)

During the Mesozoic era two types of intrusion were emplaced in the Finlayson Lake District. The first includes several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

Yukon-Tanana Terrane is juxtaposed against Cassiar Terrane along the Tintina Fault, which is a northwest trending transcurrent fault that produced approximately 425 km of dextral strike-slip offset between 58 and 67 million years ago (Mortensen, 2004). Cassiar Terrane comprises a belt of Upper Proterozoic to Upper Triassic parautochthonous, miogeoclinal sediments that extends for 1500 km from northern interior B.C. into southern Yukon (Pope and Sears, 1997).

In the HI property area Yukon-Tanana Terrane is represented by metasedimentary rocks of Late Proterozoic and Paleozoic Nisling Assemblage (PPN1) and Devonian to Mississippian Nasina Assemblage (DMN1), while Cassiar Terrane is characterized by Devonian, Mississippian and older(?) Pelly Gneiss Suite (DMgPW). All units are shown on Figure 4 and are described in greater in detail in Table I.

Unit Name	Map Name	Age	Terrane	Description
Unnamed		Late Cretaceous	Yukon- Tanana	Two-mica quartz monzonite and granite plutons
Unnamed		Early Jurassic	Yukon- Tanana	Mafic and intermediate composition plutons
Pelly Gneiss Suite	DMgPW	Devonian, Mississippian and older?	Cassiar	Foliated medium grained, homogeneous biotite granite gneiss to biotite or hornblende granodiorite gneiss; massive to strongly foliated diorite to granodioritic gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllite.
Nasina Assemblage	DMN1	Devonian, Mississippian and older?	Yukon- Tanana	Dark grey to black, fine grained, graphitic and non-graphitic quartzite, grey micaceous quartzite and quartz muscovite (+/-chlorite; +/- feldspar augen) schist, locally garnetiferous; minor graphitic stretched metaconglomerate and metagrit.
Nisling Assemblage	PPN1	Late Proterozoic and Paleozoic	Yukon- Tanana	Dark green to brown, biotite-muscovite-quartz- feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor (?) two-mica gneiss and hornblende diorite gneiss.

Table I –	Lithological	Units (after	Gordev and	Makeneace	2003)
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![](_page_10_Figure_0.jpeg)

## **PROPERTY GEOLOGY**

Property-scale mapping was carried out by Brett Resources in 1997 (Tulk and Tucker, 1998) and Solomon Resources in 2003 (Heon and Dodge, 2003). Strategic Metals and Wolverine did not complete any mapping in 2010 or 2011. The following geological descriptions are taken from the published data.

The HI claims are mainly underlain by a package of metasedimentary rocks, which correspond to Nasina Assemblage (Figure 4). This package is subdivided into three local subunits: 1) quartzite, psammite and phyllitic psammite; 2) quartz-muscovite±biotite±garnet pelitic schist with local quartz-biotite porphyroblasts and local interlayered chloritic schist; and 3) tan to rusty weathering calcareous schist and marble that have gradational contacts with the other two subunits. Compositional layering between these subunits is distinct within siliceous horizons and at the contact between siliceous and calcareous beds. The metasedimentary package generally strikes northwesterly with a moderate dip to the northeast. Small, east- and west-verging parasitic folds have been observed in the siliceous part of the sequence.

The metasedimentary package overlies a thin horizon of quartz-sericite felsic volcanic schist, which is exposed on the north side of the ridge. The schist is fine grained, light tan and strongly foliated. It is composed of quartz and feldspar with sericite on foliation laminae.

Both the metasediments and volcanic schist were intruded to the north by Late Cretaceous quartz monzonite. The quartz monzonite ranges from undeformed with euhedral feldspar megacrysts to gneissic with augen shaped megacrysts. It is light grey and usually weathers rusty due to fine disseminated pyrite. Potassium feldspar megacrysts range in size from one to four centimetres. The groundmass comprises feldspar, quartz and hornblende, which is occasionally retrograded to chlorite.

## **MINERALIZATION**

Mineralization at the HI property comprises arsenopyrite-quartz veins on the ridge-top (Zone 1), massive pyrite boulders near the head of Caribou Creek (Zone 2), pyritic volcanic schist within Caribou Creek (Zone 3), and a zone of tourmaline-arsenopyrite-quartz veins on the ridge (Zone 4). The locations of these zones are illustrated on Figure 5.

Work in 2011 was dominantly performed within the newly acquired auriferous arsenopyritequartz vein zone (Zone 1). Samples were taken from historical trenches. A few samples were also collected near the 2010 trench at Zone 2. Sample locations are illustrated on Figure 5, while results for gold, arsenic, silver, lead, zinc, tungsten and bismuth are illustrated thematically on Figures 6 to 12, respectively. Certificates of Analysis are given in Appendix II.

Rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation was carried out at ALS Chemex in Whitehorse, Yukon. Each sample was dried, fine crushed to better than 70% passing -2mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then sent to ALS

![](_page_12_Figure_0.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_1.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Figure_1.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

Chemex in North Vancouver, BC where it was analyzed for gold and 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24 and ME-ICP41).

The following descriptions of the mineralized zones are largely based on the historical assessment reports for the Maui property (Tulk and Tucker, 1998 and Heon and Dodge, 2003).

**Zone 1** has been tested by five hand trenches (T-1 to T-5) that were designed to locate the source of auriferous arsenopyrite-quartz boulders found on surface. Table II contains the length and azimuth of each trench.

Trench	Length (m)	Azimuth (°)								
T-1	3	085								
T-2	6.8	055								
T-3	NR	NR								
T-4	8	005								
T-5	5.7	058								
NID NI										

### **Table II – Trench Data**

NR – Not reported

Mineralization in the trenches is characterized by heterogeneous amounts (1 to 20%) of massive to granular arsenopyrite in stringers, pods and bands within white to yellow quartz. Local scorodite staining is present. Fine-grained sphalerite and pyrite occur in T-1, -2 and -5. The presence of sulphosalts in T-2 has been proposed from thin section work. Light grey and brown tourmaline has also been observed. Minor faulting has been inferred from the presence of clayrich pods that locally contain mineralized quartz fragments.

Abundant quartz material was excavated in T-1, but the quartz appears to be fractured and slightly displaced by weathering processes. No solid bedrock was encountered. The trench cuts mineralized quartz veins and alteration haloes in schist wallrocks. Orange and red clay from weathering and/or alteration surrounds the mineralized quartz blocks. Mineralization consists of arsenopyrite pods and stringers, very fine-grained sphalerite pods and disseminated pyrite cubes. Sulphides locally occur along fractures and foliation planes in the schist host rock. Accessory minerals include chlorite, tourmaline and light green mica. A late white bull quartz vein cuts the mineralized zone at the end of the trench. Of all the trenches, T-1 is the richest in sphalerite; however, samples high in zinc are low in gold. Most of the significant gold values in T-1 come from samples of white or greenish clayey material, which occasionally displays a fine boxwork texture and locally contains arsenopyrite pods or fragments. Seventeen samples from excavated mineralized blocks collected in 2003 averaged 0.461 g/t gold (peak of 1.79 g/t), 9065 ppm zinc, 242 ppm bismuth and 53 ppm tin (Heon and Dodge, 2003). In 2011, four rock samples were collected from this trench and yielded: strongly to very strongly anomalous values for arsenic  $(\geq 10,000 \text{ ppm})$  and lead (up to 5800 ppm); moderately to strongly elevated values for bismuth (up to 82 ppm); weakly to moderately anomalous values for gold (up to 0.2 g/t); and background to weakly anomalous values for silver (up to 2.6 g/t), zinc (up to 420 ppm) and tungsten (up to 460 ppm).

Trench T-2 is the only trench that reached bedrock (at least in part). Vertically banded quartzsulphide mineralization parallels the direction of the trench, but the dimension, direction and continuity of the structure was not determined. Eighteen "reliable" samples and six "marginal" ones were collected from this trench in 2003 (Heon and Dodge, 2003). Of the eighteen reliable samples, three were chip samples from bedrock and the remainder were from excavated blocks. The chip samples averaged 1.553 g/t gold, 29.1 g/t silver, 2225 ppm zinc and 982 ppm bismuth over 4.4 m, while the excavated blocks averaged 1.215 g/t gold, 144 g/t silver, 4323 ppm zinc, 2486 ppm lead and 1243 ppm bismuth. Two samples were collected from this trench in 2011. Both samples returned: strongly to very strongly anomalous values for arsenic ( $\geq$  10,000), silver (up to 85.7 g/t) and bismuth (up to 785 ppm); moderately to strongly anomalous values for zinc (up to 2880 ppm); weakly to moderately elevated gold (up to 0.55 g/t) and lead (up to 1580 ppm) values; and background to weakly anomalous values for tungsten (up to 570 ppm).

No data was reported for T-3.

T-4 was not completed due to time constraints; however, eleven samples from mineralized blocks within the trench averaged 0.189 g/t gold (peak of 0.503 g/t) and 130 ppm bismuth with subdued silver values (Heon and Dodge, 2003). In 2011, three samples were taken within the trench and yielded: strongly anomalous values for arsenic ( $\geq$  10,000 ppm); moderately to strongly elevated values for bismuth (up to 76 ppm); background to weakly anomalous values for zinc (up to 604 ppm); and background values for gold (up to 0.12 g/t), silver (up to 1.3 g/t), lead (up to 25 ppm), and tungsten (up to 60 ppm).

T-5 cut jumbled, rusty quartz-arsenopyrite material with dirty fractures and weathered sulphides. Pods of yellowish-green clay alteration were exposed on the trench walls. Six samples were collected from T-5 in 2003 – three discontinuous chip samples and three from excavated blocks. The chip samples returned between 0.250 and 1.244 g/t gold and 118 and 1767 ppm bismuth over an average width of one metre. Samples from the excavated blocks averaged 0.164 g/t gold (peak of 244 ppb) and 68 ppm bismuth (Heon and Dodge, 2003). In 2011, four rock samples were collected from the trench and returned: strongly to very strongly anomalous values for arsenic ( $\geq$  10,000 ppm); one very strongly anomalous silver value (47.8 g/t); moderately to very strongly anomalous values bismuth (up to 549 ppm); weakly to moderately elevated values for zinc (up to 1290 ppm); background to weakly anomalous values for lead (up to 592 ppm); and background to slightly elevated values for gold (up to 0.15 g/t) and tungsten (up to 10 ppm).

**Zone 2** comprises a train of rusty pyritic boulders measuring up to 70 cm in diameter (Heon and Dodge, 2003). Three samples from these boulders reportedly yielded between 1.0 and 3.4 g/t gold. Two of the samples consisted of banded pyrite, arsenopyrite and quartz, with tourmaline and trace chalcopyrite visible in thin section. The other sample comprised patchy arsenopyrite in oxidized quartz vein. The boulder train was relocated in 2010 and a hand trench was dug perpendicular to its trend. The trench was 1.7 m deep and did not reach bedrock. In 2011, two samples were collected near the 2010 trench. Only one of these samples returned encouraging results. The sample yielded a moderately anomalous value for gold (0.67 g/t) with very strongly elevated arsenic ( $\geq$  10,000 ppm) and bismuth (160 ppm) values, and background values for silver (0.4 g/t), lead (4 ppm), zinc (3 ppm) and tungsten (5 ppm).

**Zone 3** lies at the top of Caribou Creek and consists of rusty weathering, felsic volcanic quartzsericite schist with disseminated pyrite and arsenopyrite (Tulk and Tucker, 1998). Three samples from this unit averaged 2.437 g/t gold (peak of 5.28 g/t). Downstream from the metavolcanics patchy mineralization was observed in the quartz monzonite. Sporadic zones of rusty, clay altered quartz monzonite containing up to 10% disseminated pyrite, 5% blebby galena and 5% blebby to disseminated arsenopyrite are present along the length of Caribou Creek. This material returned subdued gold values (< 0.020 g/t), but contained strongly elevated lead and weakly elevated zinc. The best sample yielded 10,900 ppm lead and 764 ppm zinc. No rock samples were collected from this area in 2011.

**Zone 4** comprises a 20 m wide zone of silicification and arsenopyrite mineralization that is hosted within the metasediments near the centre of the property (Tulk and Tucker, 1998). The zone trends northeast for approximately 600 m and appears to be steeply dipping (approximately 70°) to the southeast. In the immediate footwall of this zone, biotite alteration has been observed and larger, discordant, barren, white quartz veins are common. Mineralization consists of up to 5% finely disseminated and blebby arsenopyrite with lesser pyrite hosted in silicified quartz-biotite-sericite schist. A fine stockwork of black silica veins is often present. Grab samples yielded subdued gold values of up to 0.015 g/t. A small (one by one metre) gossan of very rusty, goethitic quartz stockwork lies at the southern end of the trend. Two samples from that gossan averaged 0.267 g/t gold. Rock samples were not collected within this area in 2011.

## **DISCUSSION AND CONCLUSIONS**

The HI property hosts four known zones of auriferous mineralization and scattered gold, arsenic, silver, lead and zinc soil anomalies. It lies immediately north of the Tintina Fault within Finlayson Lake District.

Exploration of the property in 2011 focussed on the newly acquired auriferous quartzarsenopyrite veins. Wolverine re-located and sampled four historical trenches (T-1,-2,-4 and -5). The best results came from T-2. This sampling generally confirmed historical assay results, but gold values were lower on average.

Geomorphological constraints restrict exploration options at the HI property. The deep, frozen overburden limits the effectiveness of surface exploration, while rugged terrain will likely make mechanical trenching and reverse circulation percussion drilling impractical. A few helicopter supported diamond drill holes are recommended to establish down dip continuity and orientation of the quartz veins at Zone 1 and auriferous metavolcanic unit at Zone 3. The relatively high gold values obtained from samples containing fairly weak sulphide mineralization suggest that the metavolcanic unit has potential for better gold assays if the disseminated mineralization grades into a massive sulphide zone. In order for this zone to have size potential, it must dip away from the adjacent granitic intrusion; therefore, detailed structural mapping should be done before any drilling is started.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A. Mitchell, B.Sc. Geology

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# **APPENDIX I**

# STATEMENT OF QUALIFICATIONS

## STATEMENT OF QUALIFICATIONS

I, Andrew Mitchell, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

- 1. I graduated from the University of British Columbia in 2010 with a B.Sc. in Earth and Environmental Sciences.
- 2. From 2010 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territory.
- 3. I have personally interpreted all data resulting from this work.
- A. Mitchell, B.Sc. Geology

# **APPENDIX II**

![](_page_29_Picture_0.jpeg)

#### To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Page: 1 Finalized Date: 9- SEP- 2011 Account: F

## CERTIFICATE WH11146373

Project: Wolverine- Finlayson

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

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

	ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24 ME- ICP41	Au 50g FA AA finish 35 Element Aqua Regia ICP- AES	AAS ICP- AES

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED ATTN: JOAN MARIACHER 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Signature:

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Colin Ramshaw, Vancouver Laboratory Manager

![](_page_30_Picture_0.jpeg)

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8 Page: 2 - A Total # Pages: 2 (A - C) Finalized Date: 9- SEP- 2011 Account: F

Project: Wolverine- Finlayson

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP4 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
1357290		0 89	0 121	13	0.37	>10000	10	20	11	76	7 03	9.0	2	11	6	2 14
1357291		0.46	0.022	0.6	2.37	1785	<10	90	2.7	8	0.60	9.6	16	31	25	4.69
1357292		0.55	<0.005	0.4	3.34	1950	10	20	4.6	<2	1.57	3.1	24	6	52	6.78
1357293		0.38	0.149	1.2	1.62	>10000	10	50	3.0	46	2.81	8.1	8	15	25	5.84
1357294		0.75	0.027	0.5	2.87	6620	<10	50	3.9	13	0.94	6.1	18	42	32	5.49
1357295		0.75	0.021	0.8	3.71	2760	10	70	6.0	8	3.09	3.8	18	38	33	4.57
1357296		0.83	0.324	5.7	0.29	>10000	<10	30	0.9	156	0.44	23.5	5	16	4	2.96
1357297		0.39	0.057	47.8	0.12	>10000	<10	10	1.0	549	0.17	64.0	1	16	6	1.64
1357298		0.82	0.049	0.6	0.28	>10000	20	20	0.5	14	1.29	132.5	13	16	6	3.30

![](_page_31_Picture_0.jpeg)

ALS Canada Ltd.

2103 Dollarton Hwy North Vancouver BC V7H 0A7 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

#### To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Page: 2 - B Total # Pages: 2 (A - C) Finalized Date: 9 - SEP - 2011 Account: F

Project: Wolverine- Finlayson

Sample Description	Method	ME- ICP41	ME/CP41	ME- ICP41	ME- IC#P1											
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0 .01	10	0.01	5	1	0 .01	1	1 0	2	0 .01	2	1	1
1357290		<10	<1	0.14	<10	0.05	92	1	0.02	1	30	20	0.37	<2	<1	174
1357291		10	1	0.42	50	0.99	642	<1	0.03	36	530	25	<0.01	<2	5	73
1357292		10	<1	0.28	20	1.38	965	<1	0.02	21	1490	5	<0.01	<2	11	89
1357293		<10	1	0.55	20	0.29	344	1	0.05	13	100	305	0.20	3	3	201
1357294		10	<1	0.52	60	1.18	629	<1	0.02	50	470	40	<0.01	2	5	70
1357295		10	1	0.90	60	1.02	721	<1	0.09	44	420	57	<0.01	<2	7	142
1357296		<10	<1	0.12	<10	0.04	77	<1	0.01	3	30	57	1.26	3	<1	37
1357297		<10	<1	0.05	<10	0.02	57	<1	<0.01	1	10	592	0.59	3	<1	33
1357298		<10	<1	0.14	<10	0.02	45	<1	0.01	3	20	3	1.78	5	<1	40

![](_page_32_Picture_0.jpeg)

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#### To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Page: 2 - C Total # Pages: 2 (A - C) Finalized Date: 9- SEP- 2011 Account: F

Project: Wolverine- Finlayson

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 TI ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
1257200		< 20	<0.01	<10	~10	2	60	170
1357290		<20 20	<0.01	<10	<10	3 25	60 40	604
1357292		<20	0.01	<10	<10	160	40	374
1357293		<20	0.01	<10	<10	12	10	274
1357294		20	0.01	<10	<10	28	10	438
1357295		20	0.01	<10	<10	28	20	335
1357296		<20	<0.01	<10	<10	2	310	313
1357297		<20	<0.01	<10	<10	1	<10	1290
1357298		<20	<0.01	<10	<10	1	<10	3590

![](_page_33_Picture_0.jpeg)

#### To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Page: 1 Finalized Date: 13- AUG- 2011 Account: F

# CERTIFICATE WH11132843

Project: Wolverine- HI

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-JUL-2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

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

	ANALYTICAL PROCEDURE	S
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED ATTN: JOAN MARIACHER 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Signature:

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Colin Ramshaw, Vancouver Laboratory Manager

![](_page_34_Picture_0.jpeg)

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8 Page: 2 - A Total # Pages: 2 (A - C) Finalized Date: 13- AUG- 2011 Account: F

Project: Wolverine- HI

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 AI % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
1358057 1358058 1358059 1358060		3.52 4.02 4.60 4.44	<0.005 <0.005 0.533 0.552	2.6 0.7 85.7 59.1	2.27 2.30 0.19 0.13	1435 874 >10000 >10000	<10 <10 <10 <10	40 40 10 <10	2.6 2.4 0.6 0.5	4 2 616 785	5.50 6.75 0.47 0.71	0.9 0.9 62.1 103.5	14 13 1 <1	32 34 17 18	22 24 4 4	3.40 3.45 3.11 2.70
I358061 I358062		4.32 3.64	0.166	1.9 0.5	0.22 2.07	>10000 2350	<10 <10	<10 50	2.0	82 5	7.7 8.3	18.1 3.3	1 10	<u>18</u> 24	3 20	1.69 3.00

![](_page_35_Picture_0.jpeg)

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8 Page: 2 - B Total # Pages: 2 (A - C) Finalized Date: 13- AUG- 2011 Account: F

Project: Wolverine- HI

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
1358057		10	1	0.46	40	0.94	523	<1	0.03	36	410	5800	0.04	<2	5	348
1358058		10	<1	0.49	40	0.97	477	<1	0.04	35	400	1150	0.02	<2	5	427
1358059		<10	<1	0.09	<10	0.03	68	1	0.01	1	10	1580	1.53	4	<1	43
1358060		<10	<1	0.05	<10	0.03	55	<1	0.01	1	10	898	1.44	4	<1	38
1358061		<10	<1	0.09	<10	0.04	129	<1	0.01	<1	10	27	0.59	2	<1	122
															Ţ	

![](_page_36_Picture_0.jpeg)

#### To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

Page: 2 - C Total # Pages: 2 (A - C) Finalized Date: 13- AUG- 2011 Account: F

Project: Wolverine- HI

									CERTIFICATE OF ANALYSIS	WH11132843
Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 TI ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2		
1358057 1358058 1358059 1358060 1358060		20 20 <20 <20 <20	0.01 0.01 <0.01 <0.01 <0.01	<10 <10 <10 <10 <10	<10 <10 <10 <10 <10	20 22 2 1 2	<10 <10 570 <10 460	238 173 1455 2880 420		
1358062		20	0.02	<10	<10	17	20	237		

095782 p.3

## ARCHER, CATHRO & ASSOCIATES (1981) LIMITED 1016 – 510 West Hastings Street Vancouver, B.C. V6B 1L8

#### Telephone: 604-688-2568

Fax: 604-688-2578

#### <u>AFFIDAVIT</u>

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Hi 1-13 mineral claims on claim sheet 105G/6 is accurate.

anata Mariacher Oat

Sworn before me at Vancouver, B.C.

this 18th day of October 2011.

Barrister & Solicitor

IAN J. TALBOT Servister & Solicitor 281 East 5th Street North Vancouver British Columbia Canada V7L 1LS

## Statement of Expenditures Hi 1-13 Mineral Claims October 18, 2011

## <u>Labour</u>

R. Gibbons (field assistant) July 2011 – 3 days @ \$408/day D. Jones (field assistant) July 2011 – 3 days @ \$360/day	\$ 1,370.88 1,209.60
C. Campbell (field assistant) July 2011 – 3 days @ \$344/day	1,155.84
	3,736.32

### Expenses

14	er <sup>20</sup>	
Field room and board – 9 days @ \$150/day		1,512.00
Outbound Aviation		10,137.58
ALS Chemex		194.44
		11,844.02

Total

## <u>\$15,580.34</u>

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PAGE 05

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PAGE 04

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PAGE 03

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PAGE 83

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#### To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8

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FAX

## INVOICE NUMBER 2352704

				ANALYS		UNIT		
		BILLING INFORMATION	QUANTIT	Y CODE -	DESCRIPTION		PRICE	TOTAL
Certifi Sample Accou Date: Prolec P.O. N Quote Terms Comm	icate: a Type: int: ic: ic: ic: ic: ic: ic: ic: ic	WH11132843 Rock F 13-AUG-2011 Wolverine-HI ALSM-CW11-013-F Net 30 Days C1	6 6 6 24.54 6 24.54 6	LOG-22 PUL-31 Au-AA24 ME-KCP41 GEO-AR01 CRU-31 CRU-31 SPL-21 SPL-21 SPL-21	Sample login - Rcd w/o BarCode Pulverize split to 85% <75 um Au 50g FA AA finish 35 Element Aqua Regia ICP-AES Aqua regia digestion Welght Charge (kg) - Fine crushin Fine crushing - 70% <2mm Weight Charge (kg) - Split sample Split sample - riffle splitter	ng – 70% <2mm e – riffle splitter	0.64 2.24 13.65 5.33 2.62 0.27 1.44 0.22 1.01	3.84 13.44 81.90 31.98 15.72 6.63 8.64 5.40 6.05
2						SUBTOTAL (CAD)	\$	173.61
	To:	ARCHER, CATHRO AND ASSOCIATES (19	81) LIMITED			R100938885 HST BC	\$	20.83
8		ATTN: JOAN MARIACHER 1016-510 W HASTINGS ST VANCOUVER BC V6B 1L8			a. A	TOTAL PAYABLE (CAD)	\$	194.44
				Payment may be m	nade by: Cheque or Bank Transfer	s 5		
1		Please Remit Payments To : ALS Canada Ltd. 2103 Dollarton Hwy North Vancouver BC V7H 0A7		Beneficiary Name: Bank: SWIFT: Address: Address: Account: Please send payme	ALS Canada Ltd. Royal Bank of Canada ROYCCAT2 Vancouver, BC, CAN 003-00010-1001098 ent Info to accounting.canusa@alsgk	abal.com		

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