NTS104M

# ASSESSMENT REPORT FOR THE BIGHORN PROPERTY MINERAL CLAIMS 507085, 522605, 522606, 522635, 522636, 522638, 522641, 528423, 528425, 528426, 528427, 528429, 539666, 543064

Approximate Location:
Latitude: 59°30' N
Longitude: 134°25' W
Approximately 45 Kilometres West of Atlin, B.C. (NTS 104M09)
Atlin Mining Division

Completed By:
APEX Geoscience Ltd.
#200, 9797 45 Avenue
Edmonton, Alberta T6E 5V8

Completed On Behalf Of:
Micrex Development Corporation
156 Laurier Drive
Edmonton, Alberta T5R 5P9

October 18, 2008

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# ASSESSMENT REPORT FOR THE BIGHORN PROPERTY Mineral Claims 507085, 522605, 522606, 522635, 522636, 522638, 522641, 528423, 528425, 528426, 528427, 528429, 539666, 543064

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## 1.0 - SUMMARY

The Bighorn Creek Project is located approximately 45 kilometres west of the town of Atlin, in northwest British Columbia, Canada (Figure 1). This area has been the focus of base and precious metal exploration since the turn of the century. The Bighorn Property is comprised of 28 claims that total 4571 hectares (ha) in the immediate area of Bighorn Creek (Figure 2). The claims are registered to various individuals but are beneficially owned by Micrex Development Corporation of Edmonton, Alberta. The claims surround the auriferous Lawson Vein. The immediate vicinity of the Lawson Vein, located on Bighorn Creek, has been staked in the past under various claim names including Spokane, Mohawk, Edwin, Norm and Sephil.

The Bighorn Property is being explored for potential precious metal vein-type mineralization of either mesothermal or epithermal affinity. The Property is underlain by hornblende orthogneiss that has undergone Cordilleran deformation and has been intruded by feldspar porphyry dykes. Quartz veins developed within these rocks that contain significant concentrations of gold, with elevated silver, lead, zinc and copper. No significant production has been achieved on the Property to date; however, a number of adits have been opened along the Lawson Vein, and historical values include 9.4 grams per tonne (g/t) gold (Au) across 0.76 metres and 10.6 g/t Au across 0.91 metres from the “Incline Adit”.

In May of 2007, an airborne geophysical survey of the Bighorn Property was carried out by Fugro Airborne Surveys (Turner, 2007). The purpose of the 2007 prospecting and sampling program was to follow up on the geophysical targets resulting from the geophysical survey. The geophysical data proved effective in locating areas of alteration and also useful in targeting structures. From August 8 to August 20, 2007 a prospecting and sampling program was conducted by APEX Geoscience Ltd. A total of 91 rock grab samples, 13 heavy mineral concentrate stream samples, and 5 stream silt samples were collected. The cost of the 2007 exploration program was $79,345.00 CND. A breakdown of these expenditures can be found in Appendix 1. Based upon the geochemical results from the samples further work is recommended. A drilling program that is focused on the Lawson Vein system located on the PITT claim is recommended. Further prospecting and sampling on all of the claims to follow up on anomalies identified by the 2007 sampling results is also recommended. The proposed exploration budget is approximately $500,000 CND plus a provision for PST/GST.

## 2.0 - INTRODUCTION

The Bighorn Property ("The Property") is located within the Atlin Mining Division and comprised of 28 mineral claims that total 4571 hectares (ha). The claims are registered to various individuals (See Table 1) but are beneficially owned by Micrex Development Corporation ("Micrex"). More Specifically Micrex have entered into a joint venture agreement with Mountain Rio Resources Inc. ("Mountain Rio"), giving Micrex seven eighths (7/8) working interest in the Property and Mountain Rio one eighths (1/8) working interest in the Property (News Release found on SEDAR, 2007).

APEX Geoscience Ltd. ("APEX") was retained in the summer of 2007, as consultants, complete a 13 day exploration program that consisted of prospecting, rock sampling, and stream sediment geochemistry. This assessment report documents the results of the 2007 exploration program. The total expenditure for the exploration program was $79,345.00 CND.

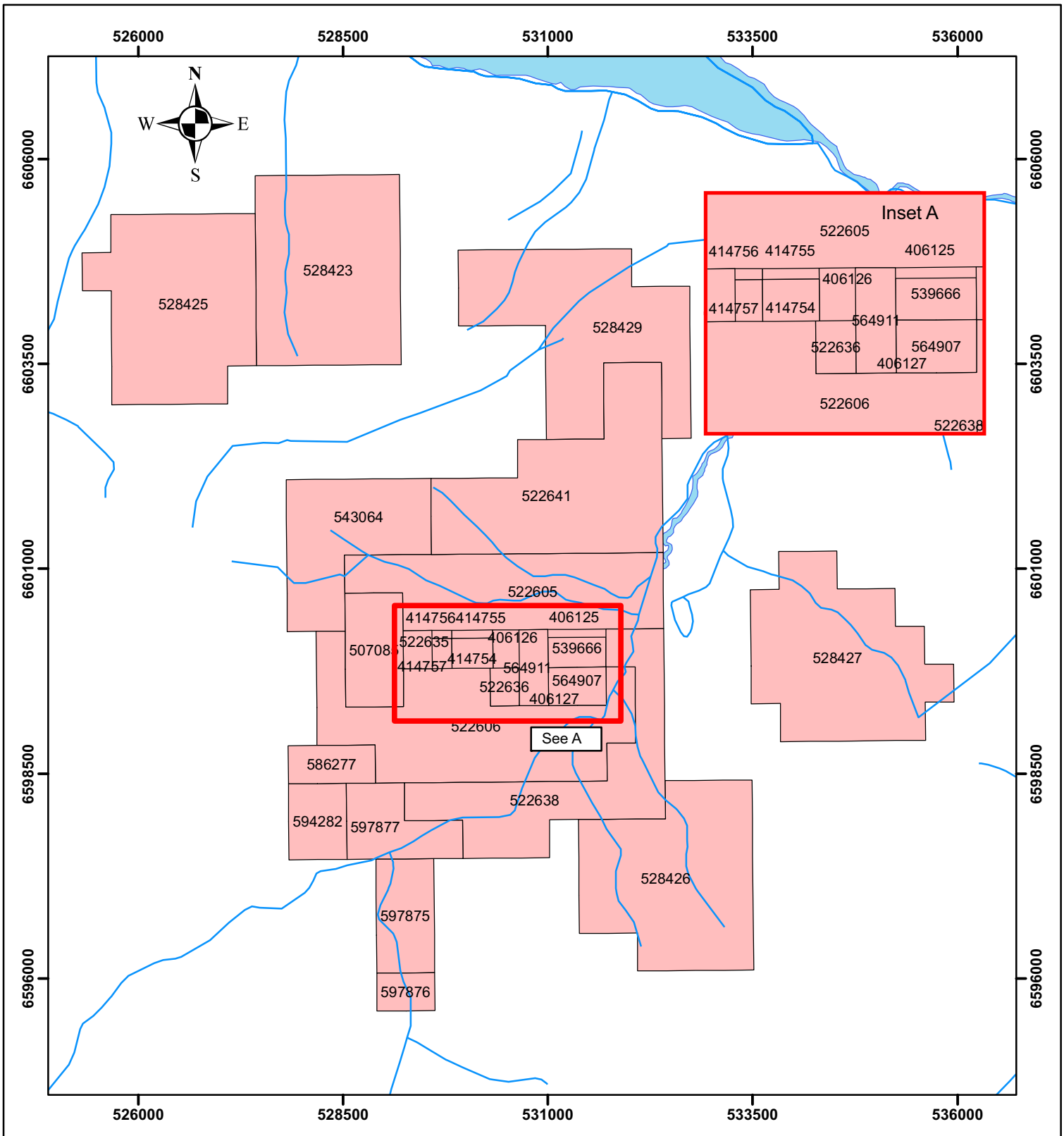
## 3.0 – GEOGRAPHIC AND PHYSIOGRAPHIC LOCATION AND ACCESS

The Bighorn Property is located on the west side of Bighorn Creek approximately 45 kilometres west of the town of Atlin in northwestern British Columbia, and 48 kilometres east of Skagway, Alaska, U.S.A. (Figure 1). More specifically, the property is located 11 kilometres upstream of the confluence of Bighorn Creek and Fantail River, on the western slope of the Bighorn Creek valley. The Property is located within the Skagway 1:250 000 scale National Topographic System (NTS) map sheet 104M. More specifically, the Property is located within the Fantail Lake 1:50 000 scale NTS map sheet 104 M/9. The claims are located in Atlin Mining District minerals titles reference map sheet M104M058. A legal claim description for the claims is provided in Table 1, and the claims boundaries are shown on Figure 2.

The Bighorn Property is accessed by helicopter from Atlin, British Columbia. For the 2007 work program a Bell 206 Jet Ranger was chartered from Discovery Helicopters of Atlin, BC.

The Property is situated at the boundary of two geomorphological subdivisions, the Boundary Ranges of the Coast Mountains and the Teslin Plateau of the Intermontane Belt (Mihalynuk, 1999). The Bighorn Property claims are located on the eastern edge of the Boundary Ranges on a steep eastern-facing slope along Bighorn Creek. Elevations range from 800 metres to 1300 metres above sea level at the property, and from 700 metres to 2300 metres above sea level regionally. Tree line elevations vary from 1100 to 1400 metres above sea level, with lower slopes timbered by lodgepole pine, spruce, aspen, balsam poplar, black spruce, and hemlock, while near tree line subalpine fir, juniper, and dwarf birch dominate (Mihalynuk, 1999). Bighorn Creek flows to the northeast into the Fantail River, which in turn flows east into Tagish Lake that is part of the extensive headwater reservoir for the Yukon River.


NWT
Yukon
Alberta
Atlin
Dease Lake
British
Columbia
Smithers
Terrace
Prince Rupert
Kitimat
Prince George
Vancouver
Victoria
USA
Pacific
Ocean
Legend
Bighorn Property
City / Town
Province / Country
Pacific Ocean
Canada
British Columbia
USA
N
W
E
S
Micrex Development Corp.
Figure 1 - Bighorn Property
Location Map
0 55 110 220 330 440
Kilometers
1:8,000,000
NAD 27 Zone 8
APEX Geoscience Ltd.
Edmonton, Alberta
October, 2008




## Legend

- Bighorn Claim Boundaries
- Fantail Lake
- River

Micrex Development Corp.

Figure 2 - Bighorn Claim Location

0 0.5 1 2 3 4

Kilometers

1:65,000

NAD 27 Zone 8

APEX Geoscience Ltd.

Edmonton, Alberta October, 2008

Environment Canada data for Atlin indicates that historical daily mean temperatures range from -16 degrees Celsius (-20 degrees Celsius minimum) in January to +12.5 degrees Celsius (+20 degrees Celsius maximum) in July. The normal work season extends from late May through October (Mihalynuk, 1999).

Provincial government services, accommodations, groceries and supplies are available in the town of Atlin, British Columbia.

## 4.0 - PROPERTY DEFINITION

The Bighorn Property ("The Property") is located within the Atlin Mining Division and comprised of 28 mineral claims that total 4571 hectares (See Figure 2). Of these 28 claims, this assessment report specifically addresses claims 507085, 522605, 522606, 522635, 522636, 522638, 522641, 528423, 528425, 528426, 528427, 528429, 539666, 543064. These 19 claims total an area of 3958.82 hectares (See Table 1). The claims are registered to various individuals (See Table 1) but are beneficially owned by Micrex Development Corporation ("Micrex").

Pursuant to a joint venture agreement ("The Agreement") with Mountain Rio Resources Inc. ("Mountain Rio"), a private company based in Edmonton, Mountain Rio has purchased one eighth (1/8) working interest in the Bighorn Project for $300,000 (From News Release found on SEDAR, 2007).

**Table 1: Bighorn Property Claim Information**

| Tenure | Claim Name | Owners Name | Map | Expiry | Status | Area (ha) |
|---|---|---|---|---|---|---|
| 507085 | Bowl | Gee Cee Mines Ltd. | 104M | 2013/feb/14 | Active | 98.48 |
| 522605 | Mix 1 | Gee Cee Mines Ltd. | 104M | 2012/nov/24 | Active | 328.21 |
| 522606 | Mix 2 | Gee Cee Mines Ltd. | 104M | 2012/nov/24 | Active | 410.44 |
| 522635 | Minimix | Gee Cee Mines Ltd. | 104M | 2012/nov/24 | Active | 16.41 |
| 522636 | Micromix | Gee Cee Mines Ltd. | 104M | 2012/nov/24 | Active | 16.42 |
| 522638 | Mix 3 | Gee Cee Mines Ltd. | 104M | 2012/nov/24 | Active | 295.57 |
| 522641 | Mix 4 | Gee Cee Mines Ltd. | 104M | 2012/nov/24 | Active | 410.12 |
| 528423 | Mixover 1 | Gee Cee Mines Ltd. | 104M | 2012/feb/16 | Active | 409.83 |
| 528425 | Mixover 2 | Gee Cee Mines Ltd. | 104M | 2012/feb/16 | Active | 409.88 |
| 528426 | Mixcross 1 | Gee Cee Mines Ltd. | 104M | 2012/feb/16 | Active | 410.65 |
| 528427 | Mixcross 2 | Gee Cee Mines Ltd. | 104M | 2012/feb/16 | Active | 410.36 |
| 528429 | Mix North | Gee Cee Mines Ltd. | 104M | 2012/feb/16 | Active | 409.91 |
| 539666 | Pitt | Gee Cee Mines Ltd. | 104M | 2012/aug/21 | Active | 32.83 |
| 543064 | Mix West Cirque | Gee Cee Mines Ltd. | 104M | 2012/oct/12 | Active | 299.71 |

*claims are beneficially owned by Micrex Development Corporation

## 5.0 – HISTORICAL EXPLORATION

To facilitate the great influx of gold seekers to the rich gold fields discovered in the Klondike in 1896, a southern rail route was sought from tidewater across the Coast Mountains (Mihalynuk, 1999). Engineers working on this route discovered gold-bearing quartz veins on the east shore of Tagish Lake in 1900. These veins became known as the Engineer Mine, which produced 597,176 grams, or 17,318 ounces (oz), of gold between 1913 and 1932 (Baldys, 1991).

Other gold-bearing quartz veins in the area include the Venus deposit, located north of Tutshi Lake and the Mount Skukum Mine, and northwest of Tagish Lake. The Venus deposit hosts a significant quartz-sulphide vein that averages 0.8 metres to 1.0 metres in width with a resource estimated at 68,300 tons of 11.03 grams (0.32 ounces) per ton of Au, and 306.9 grams (8.9 ounces) per ton silver (Morin, 1989). The Mount Skukum Mine also hosts gold in an epithermal quartz vein which yielded 29,622,270 grams of Au from 201,461 tons of ore before recently closing (Mihalynuk, 1999).

Closer to the currently held Bighorn Property claims, rock samples from the Main and Camp Showings on Teepee Peak, north of Fantail Lake, yielded values up to 10.83 grams (0.31 ounces) gold per ton and 147.4 grams (4.27 ounces) per ton silver (Olson, 1987).

In addition to gold, copper deposits are historically significant in the area. The Whitehorse Copper belt's southern-most extension is located just north of Carcross. This belt comprises 28 separate copper-iron skarn deposits that are hosted within the same geological environment as that found in the northern Tagish Lake area. Roughly 10,250,000 tons of ore were mined from the Whitehorse Copper belt between 1967 and 1982 with 2,850,000 tons grading 1.06 percent copper and 7,400,000 tons grading 1.5 percent Copper (Mihalynuk, 1999).

Fueled by the discovery of gold at the Engineer Mine, many prospectors began exploring the area around Tagish Lake. The first intensive prospecting in the vicinity of the present-day Pit Claim was conducted by Mr. Fred Lawson, and associates, during the early 1900's, which led to the staking of the Spokane Group (Baldys, 1991; and Carlyle, 1993a). This group consisted of the Spokane, Mohawk, and Edwin claims, which were trenched and developed with adits between 1921 and 1932. The North Tunnel (830 metres above sea level), Peter's (at an elevation of 1035 metres above sea level), Blacksmith (1080 metres above sea level.), and Incline (1265 metres above sea level) adits traced a quartz vein, with an average exposed width of 1.1 metres, over a horizontal distance of 920 metres and a vertical distance of 460 metres (Carlyle, 1993a). In 1933, the Spokane Group was bonded to Norgold Mines Limited which later changed its name to Atlin-Pacific Mining Co. Ltd. It was at this time that the quartz vein was channel sampled in six places along underground workings driven from the

Incline Adit. The channel samples averaged 9.4 grams (0.27 ounces) per ton gold over an average width of 0.76 metres (Baldys, 1991). In 1934, an independent engineer obtained assay results of 10.6 grams (0.31 ounces) per ton gold over an average width of 0.91 metres (Baldys, 1991). Also during 1934, Bobjo Mines acquired an interest in the Atlin-Pacific Mining Co. Ltd. and assumed management of the Spokane Group property until relinquishing its interest in 1935 (Carlyle, 1993a).

In 1975, Lobell Mines Ltd. obtained 20 samples from the property, with 8 samples assaying over 3.45 grams (0.1 ounces) per ton gold. The highest value obtained was 17.93 grams (0.52 ounces) per ton gold across 1.52 metres from the Incline Adit drift (Carlyle, 1993a). Further prospecting was undertaken in 1981 by Silver Ice Mining Ltd., which obtained 20 samples, two of which yielded over 3.45 grams (0.1 ounces) per ton gold (Carlyle, 1993a).

In 1985, the British Columbia Ministry of Energy, Mines, and Petroleum Resources sampled the adits on what is currently known as the Pit Claim. These assays returned values as high as 297 grams (8.61 ounces) per ton gold and 120 grams (3.52 ounces) per ton silver (Carlyle, 1993a). Baldys (1991) collected 29 samples from the Pit claim and conducted geological mapping at the request of the directors of 489166 Alberta Limited (see Figure 3). Of these samples, 11 assayed greater than 0.1 ounces per ton gold with the highest assay being 0.48 ounces per ton gold from a 0.8 metre thick section of vein in the Blacksmith Adit (Baldys, 1991). The average length-weighted gold grades for samples collected from three of the adits (drifts) were as follows;

**Peter's Drift** - 0.06 ounces/ton (2.06 gram per tonne) gold across 1.3 metre vein
**Blacksmith Drift** - 0.13 ounces/ton (4.46 gram per tonne) gold across 0.9 metre vein
**Incline Drift** – 0.20 ounces/ton (6.86 gram per tonne) gold across 1.0 metre vein

Based upon the assay results obtained, Baldys (1991) calculated a resource estimate of 76,000 tons of material averaging 0.17 ounces per ton gold between the Blacksmith and Incline drifts.

In 1993, Larry Carlyle was retained by L. Whelan and Associates to review all available information regarding the Bighorn Creek Property on behalf of Micrex Development Corporation. Upon reviewing the data from Baldys (1991), Carlyle (1993a) concurred with the reserve calculation arrived at of 76,000 tons grading 0.17 ounces per ton gold. In addition to data review, Carlyle (1993b) also conducted geological and geophysical exploration over the Lawson vein, which included chip sampling of the existing adits and grab sampling of the adit dumps. The highest assays obtained for the adits were as follows:

**North Tunnel Drift** – 1.78 ounces/ton (61.03 grams per tonne) gold
**Peter's Drift** – 0.371 ounces/ton (12.72 grams per tonne) gold
**Blacksmith Drift** – 0.612 ounces/ton (20.98 grams per tonne) gold
**Incline Drift** – 1.375 ounces/ton (47.14 grams per tonne) gold

Additionally, Carlyle (1993b) conducted a short (6 line) Very Low Frequency Electromagnetic (VLF-EM) geophysical survey at an approximate strike of 100 degrees over the Incline Drift. In total, 2400 metres of VLF-EM surveying was completed at 10 metre stations and 50 metre line spacing.

In September 2006, APEX was contracted by Micrex Development Corporation to conduct a prospecting program at the Bighorn Property. An early onset of winter conditions forced the termination of the program, which resulted in the collection of 32 rock grab samples and 10 stream silt sediment samples. No significant gold assays were identified by the program but a significant area of alteration (pyrite, chlorite) was identified in the cirques above (west of) the Lawson Vein.

In August of 2007, APEX was contracted by Micrex Development Corporation to conduct a prospecting program at the Bighorn Property. 91 rock grab samples, 13 Heavy mineral concentrate samples, and 5 Silt samples were taken. Samples were taken at the Lawson vein on the Pitt claim to confirm historical results and sampling and prospecting was conducted over the rest of the claims with the aim of discovering new showings. Sampling yielded several anomalous results in gold, silver, arsenic, copper, chromium, molybdenum, nickel, lead, and tungsten. Two new showings were discovered, each having samples with anomalous gold concentrations.

## 6.0 - TECHNICAL DATA AND INTERPRETATION

APEX was retained by Micrex Development Corp. during the summer of 2007 as consultants to complete an exploration program consisting of prospecting, rock sampling, and stream sediment sampling. The principal focus of exploration within the Property is to discover a mesothermal or epithermal gold deposit(s).

## 7.0 – STATEMENT OF THE AUTHORS QUALIFICATIONS

This Report was written by Mr. Dean Besserer and Mr. David Arsenault. Mr. Besserer is a graduate of the University of Western Ontario with a B.Sc. in Geology (1994) and has practiced the profession of geology continuously since 1994. Mr. Besserer is a Professional Geologist registered with APEGGA (Association of Professional Engineers, Geologists, and Geophysicists of Alberta), and NAPEGG (Northwest Territories Association of Professional Engineers, Geologists, and Geophysicists) and a ‘Qualified Person’ in relation to the subject matter of this report. Mr. Arsenault is a graduate of Memorial University of Newfoundland with a B.Sc. in Geology (2006) and has practiced geology continuously since 2006. Mr. Arsenault is a Geologist-in-Training registered with APEGGA.

## 8.0 – GEOLOGICAL SETTING

The Taku Arm area of Tagish Lake is underlain by Upper Triassic to Middle Jurassic strata of the Whitehorse Trough, Pre-Permian metamorphic rocks of the Yukon Group, and intrusions of the Mid-Jurassic Coast Plutonic Complex (Baldys, 1991; Carlyle, 1993a; Jackaman and Matysek, 1993). The geological setting of the Bighorn Property claims is illustrated on Figure 3.

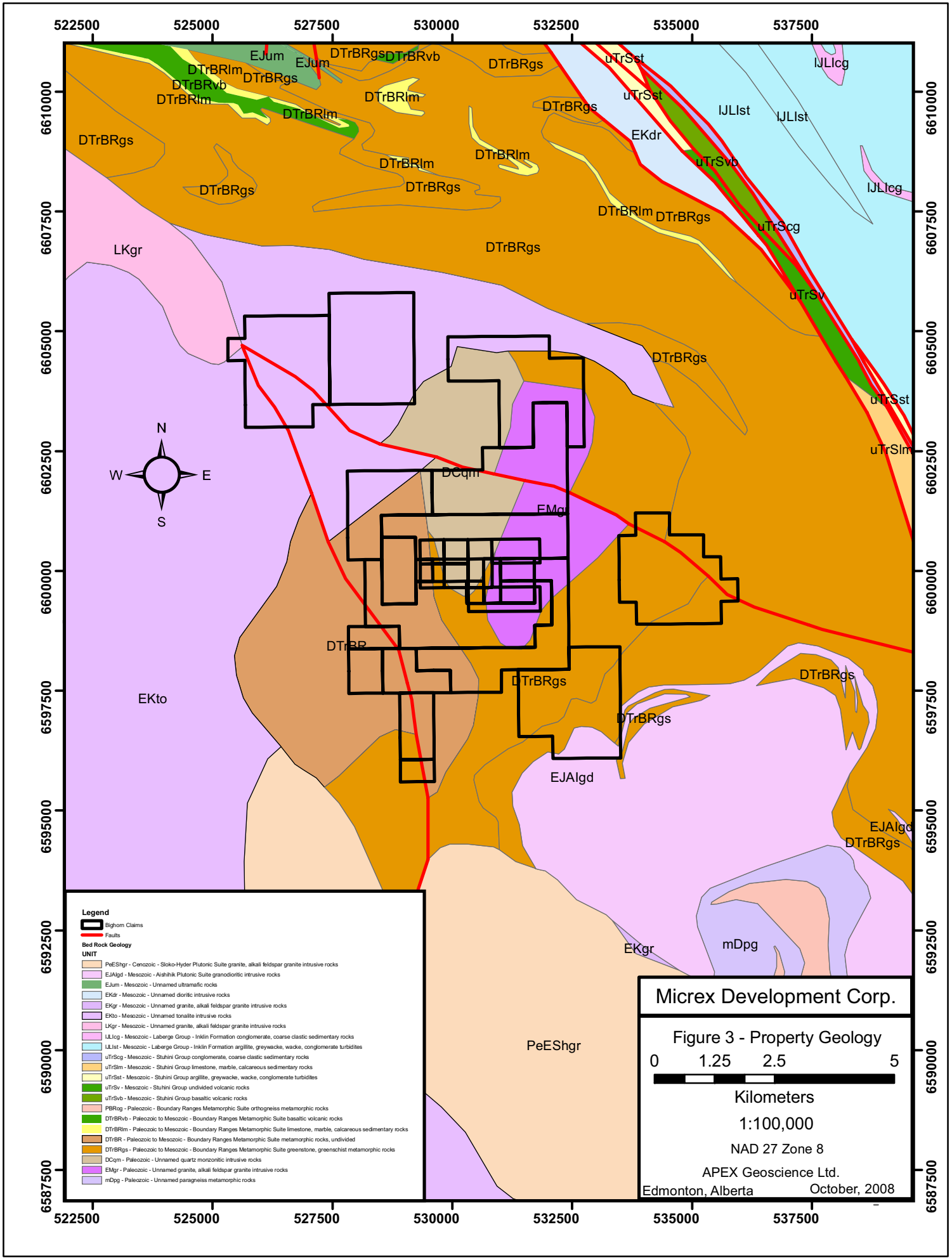
There are two major sub-parallel north-northwest-trending faults in the area. The Nahlin Fault marks the western extent of the Cache Creek Terrane, and is a steeply dipping to a vertical fault, or series of faults which have been intermittently active since the Triassic into the Tertiary (Mihalynuk, 1999). The Llewellyn Fault forms the contact between regionally metamorphosed rocks and Mesozoic strata of the Stuhini Group (Mihalynuk, 1999). Similar to the Nahlin Fault, the Llewellyn Fault is believed to have been sporadically active over the Late Triassic into the Tertiary, with displacements being greatest during earlier episodes (Mihalynuk, 1999).

The Bighorn Property is underlain by the meta-intrusive Bighorn Creek Orthogneiss which is found within the Yukon-Tanana Terrane, and contains localized schistose zones (Mihalynuk, 1999). This unit outcrops over an area of about eight square kilometres and is characterized by Mihalynuk (1999) as being a well foliated, medium-grained, leucocratic body containing 50 percent quartz, and 40 percent feldspar with 6 to 7 percent combined muscovite, biotite, hornblende, chlorite, and accessory pyrite. Intruding into the orthogneiss are dykes of andesite and feldspar porphyry (Carlyle, 1993a). The feldspar porphyry is composed of phenocrysts of white feldspar in a fine-grained pyroxene matrix.

The rocks within the property strike north-northeasterly and are generally found to be dipping gently to the east. A large north-south striking fault is recognized at an elevation of 1220 metres with a right-handed, horizontal displacement of roughly 75 metres (Carlyle, 1993a).

## 9.0 - DEPOSIT TYPES

The goal of exploration efforts at the Bighorn Property is to identify economically viable precious metal-bearing quartz veins. Mesothermal gold deposits can be hosted in a wide variety of lithologies. These deposits often show relationships with regional scale strike slip faults (Olsen et al., 1994). As mentioned earlier in this report, the Llewellyn Fault forms the contact between regionally metamorphosed rocks and Mesozoic strata of the Stuhini Group (Mihalynuk, 1999) and is believed to have been sporadically active over the Late Triassic into the Tertiary, with displacements being greatest during earlier episodes


522500
525000
527500
530000
532500
535000
537500
6610000
6607500
6605000
6602500
6600000
6597500
6595000
6592500
6590000
6587500
EJum
DTrBRgs
DTrBRvb
DTrBRlm
uTrSst
lJLlcg
lJLlst
EKdr
uTrSvb
uTrScg
uTrSv
uTrSlm
LKgr
DCqm
EMgr
DTrBR
EKto
EJAlgd
PeEShgr
EKgr
mDpg
N
W
E
S
Legend
Bighorn Claims
Faults
Bed Rock Geology
UNIT
PeEShgr - Cenozoic - Sloko-Hyder Plutonic Suite granite, alkali feldspar granite intrusive rocks
EJAlgd - Mesozoic - Aishihik Plutonic Suite granodioritic intrusive rocks
EJum - Mesozoic - Unnamed ultramafic rocks
EKdr - Mesozoic - Unnamed dioritic intrusive rocks
EKgr - Mesozoic - Unnamed granite, alkali feldspar granite intrusive rocks
EKto - Mesozoic - Unnamed tonalite intrusive rocks
LKgr - Mesozoic - Unnamed granite, alkali feldspar granite intrusive rocks
lJLlcg - Mesozoic - Laberge Group - Inklin Formation conglomerate, coarse clastic sedimentary rocks
lJLlst - Mesozoic - Laberge Group - Inklin Formation argillite, greywacke, wacke, conglomerate turbidites
uTrScg - Mesozoic - Stuhini Group conglomerate, coarse clastic sedimentary rocks
uTrSlm - Mesozoic - Stuhini Group limestone, marble, calcareous sedimentary rocks
uTrSst - Mesozoic - Stuhini Group argillite, greywacke, wacke, conglomerate turbidites
uTrSv - Mesozoic - Stuhini Group undivided volcanic rocks
uTrSvb - Mesozoic - Stuhini Group basaltic volcanic rocks
PBRog - Paleozoic - Boundary Ranges Metamorphic Suite orthogneiss metamorphic rocks
DTrBRvb - Paleozoic to Mesozoic - Boundary Ranges Metamorphic Suite basaltic volcanic rocks
DTrBRlm - Paleozoic to Mesozoic - Boundary Ranges Metamorphic Suite limestone, marble, calcareous sedimentary rocks
DTrBR - Paleozoic to Mesozoic - Boundary Ranges Metamorphic Suite metamorphic rocks, undivided
DTrBRgs - Paleozoic to Mesozoic - Boundary Ranges Metamorphic Suite greenstone, greenschist metamorphic rocks
DCqm - Paleozoic - Unnamed quartz monzonitic intrusive rocks
EMgr - Paleozoic - Unnamed granite, alkali feldspar granite intrusive rocks
mDpg - Paleozoic - Unnamed paragneiss metamorphic rocks
Micrex Development Corp.
Figure 3 - Property Geology
0 1.25 2.5 5
Kilometers
1:100,000
NAD 27 Zone 8
APEX Geoscience Ltd.
Edmonton, Alberta
October, 2008

(Mihalynuk, 1999). A 75 metre right lateral displacement was observed at the Lawson vein system based on geological mapping preformed by M.J. Cooper in 1975 (Baldys, 1991). The veins are observed to be located along second or third-order structures related to the regional Llewelyn Fault zone (Armstrong, 2004). The quartz veins found on the Pit Claim most closely resemble mesothermal precious metal vein deposits. Mesothermal quartz veins are known to form at temperatures between 200 and 400 degrees Cesius (Panteleyev, 1991-4). Analysis of fluid inclusions from samples of quartz veins give average temperatures of more than 250 degrees C. These veins are podiform, sheared, and concordant with enclosing schists of a transitional greenschist-amphibolite grade (Mihaynuk, 1999). Gold mineralization is best associated with faults that show evidence of deformation that is transitional between ductile to brittle and associated with greenschist to amphibolite facies metamorphism (Olsen et al., 1994).

Another mineral deposit style that is associated with the geological setting of the Bighorn Property is the epithermal gold type deposit. In an epithermal gold deposit, the gold is deposited within 1 – 2 kilometres of the surface and is deposited from hot fluids. The fluids of epithermal systems range between 50 and 200 degrees Celsius with moderate pressures (Panteleyev, 1991-4). These deposits are typically related to volcanism in continental arc settings. Epithermal type mineralized veins are often spatially and genetically related to porphyry systems (Panteleyev, 1991-4). Epithermal gold deposits are formed by two chemically distinct fluids. The first is low sulphidation fluid, a mixture of meteoric water and magmatic fluid that is of nearly neutral pH. Gold is carried in solution in low sulphidation waters and is deposited when the water rises to shallow low pressure levels in the crust and boils. The second fluid, high sulphidation fluid, which is almost totally derived from a magmatic source is deposited when the fluid cools or is mixed with meteoric water. Gold and other metals can originate either from the magma of be leeched from the host rock as the fluids travel though fractures. Low sulphidation fluids typically form mineralized cavity filling quartz veins. High sulphidation fluids often form mineralization that is penetrative into the host rock often observed as disseminated texture. Low sulphidation systems are known for containing economic quantities of silver with some copper, lead, and zinc. High sulphidation systems often contain economic quantities of gold and copper (Panteleyev, 1991-4).

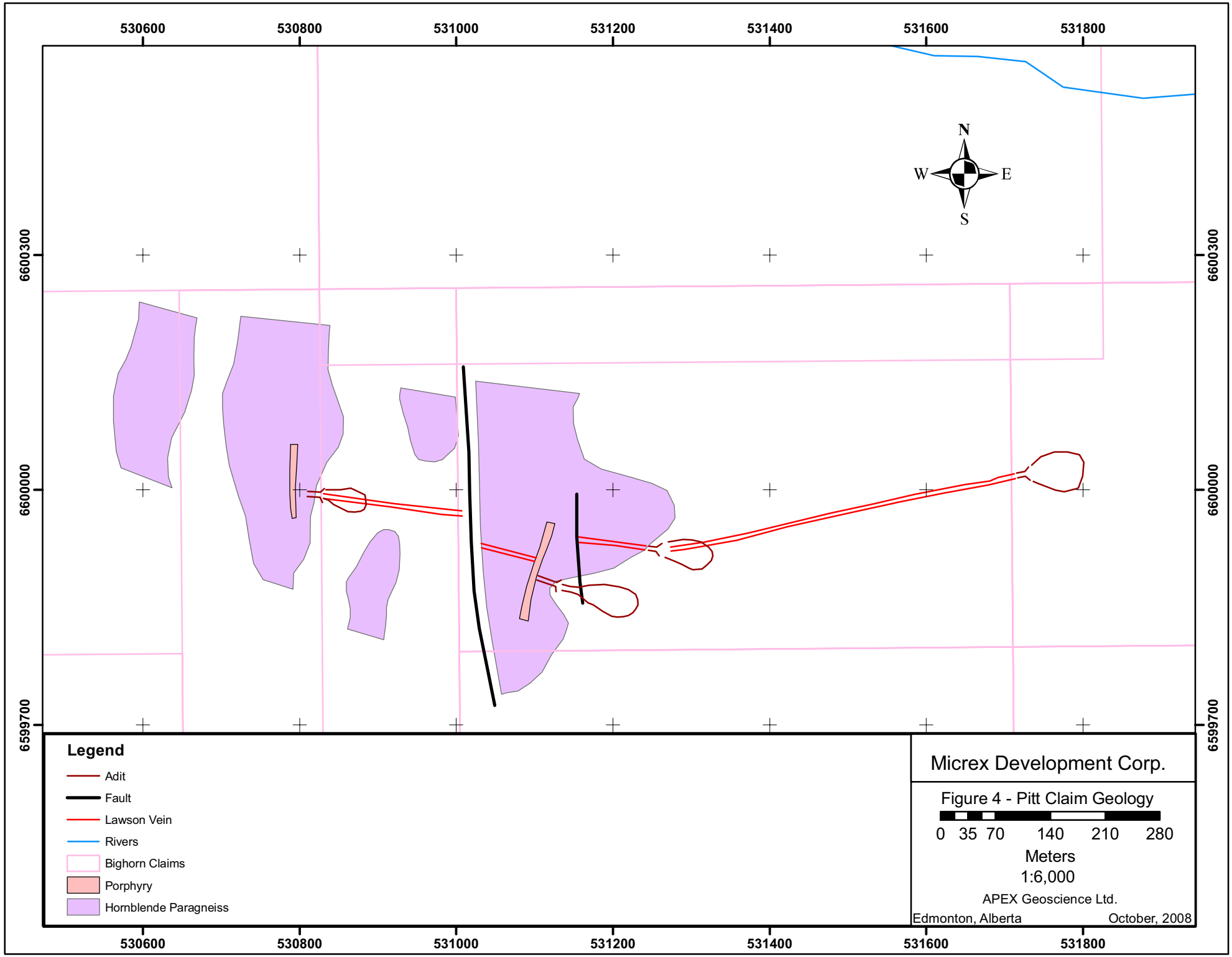
Another deposit type that is favorable to the geology of the Bighorn Property is the copper +/- molybdenum porphyry deposit type. These deposits are typically low grade and large tonnage. Porphyry deposits are both spatially and genetically to igneous intrusions (McMillan, 1991-4). The intrusive rocks that host these deposits are generally found to be felsic to intermediate. The host rock can be of any lithological type that responds to stress in the brittle realm. There are two processes that are responsible for mineralization in this style. The first is the fracturing that results from the rise of water from magmatic fluids into the shallow crust where lower pressure conditions cause it to boil. This build up of water

happens when the intrusion crystallizes and thus leaves a larger relative fraction of water. Since felsic magmas have temperatures of approximately 600 to 700 degrees Celsius, this water boils at shallow depths in the crust and causes fracturing of the host rock. This aqueous fluid can potentially be enriched in gold, copper, or molybdenum. Further mineralization is achieved as the cooling magma chamber provides the heat engine to create hydrothermal convection cells. Metal enriched aqueous fluid circulates thought the stock work and all fractures adding to and re-depositing these metals. These deposits are often found in the Canadian Cordillera. Most porphyry systems are related to shallow emplaced plutons (McMillan, 1991-4). The Coastal Intrusions occur as distinct batholiths that are typically of granodioritic to quartz-dioritic lithologies. The age of the Coastal Plutonic complex has been determined to be post early Jurassic (Baldys, 1991). Granodiorite and grainite have been observed on the upper slopes of the east flank of Mount Lawson (Cooper, 1975).

## 10.0 - MINERALIZATION

Mineralization at and near the property consists of mesothermal precious metal-bearing quartz-sulfide veins, which appear to be located along second or third-order structures related to the regional Llewellyn Fault zone. The veins are podiform, sheared, and discordant with enclosing schists of a transitional greenschist-amphibolite grade (Mihaynuk, 1999 and Baldys, 1991). Numerous small quartz veins were observed around the property. The majority of previous exploration efforts have been focused on the Lawson vein around which the Bighorn Property has been staked. The Lawson vein has been traced intermittently along a horizontal distance of 920 metres and a vertical distance of 460 metres (See Figure 4). The vein strikes roughly east-west and dips 85 degrees to the north. The vein averages 1.1 metres in thickness and contains pyrite and minor chalcopyrite, galena, sphalerite and native gold. Baldys (1991) notes that the wall rock does exhibit significant alteration or mineralization and that feldspar porphyrytic dykes were observed underground to cross-cut the vein. Baldys (1991) also notes that gold content appears to correlate well with sulfide (pyrite) content, both of which appear to increase in a vertical direction from the Lower adit to the Incline adit. The most thorough evaluation of the Lawson vein to date was conducted by Baldys (1991), during which a total of 29 chip samples were collected from 3 of the 4 adits. The length-weighted average gold grades are presented below.

**Peter's Drift** - 0.06 ounces per ton (2.06 grams per tonne) gold across 1.3 metres,
(the vein was sampled over a 135 metres horizontal length)
**Blacksmith Drift** - 0.13 ounces per ton (4.56 grams per tonne) gold across 0.9 metres,
(the vein was sampled over a 47 metres horizontal length)
**Incline Drift** – 0.20 ounces per ton (6.86 grams per tonne) gold across 1.0 metres,
(the vein was sampled over a 23 metres horizontal length)


530600
530800
531000
531200
531400
531600
531800
6600300
6600000
6599700
N
W
E
S
Legend
Adit
Fault
Lawson Vein
Rivers
Bighorn Claims
Porphyry
Hornblende Paragneiss
Micrex Development Corp.
Figure 4 - Pitt Claim Geology
0 35 70 140 210 280
Meters
1:6,000
APEX Geoscience Ltd.
Edmonton, Alberta
October, 2008

## 11.0 - EXPLORATION

From August 8 to August 20, 2007, APEX was contracted by Micrex Development Corporation to conduct an exploration program within the Bighorn Claims. Access to the Property was gained by helicopter. Helicopter services were provided by Discovery Helicopters of Atlin, B.C. A total of 91 rock grab samples, 13 Heavy Mineral Concentrate stream samples, and 5 silt stream samples were collected. The objective of the 2007 prospecting/sampling program was to follow up on geophysical anomalies detected from the airborne geophysical survey flown between May 10 to 17 2007 by Fugro Airborne Surveys Inc. (Turner, 2007). Effort was made to cover as much of the Property as possible, although the ruggedness of the terrain prevented helicopter landing access to some particularly steep areas. In these situations effort was made to at least collect altered or mineralized talus from beneath the area. Exploration expenditures within the claims, total $79,345.00 CND. A summary of all costs relating to the 2007 exploration program can be found in Appendix 1. A total number of 50 man days were spent on the exploration program by APEX personnel. A detailed list of all personnel involved in the 2007 program can be found in Appendix 2. A complete list of rock grab sample locations and descriptions can be found in Appendix 3. The fire assay and multi element ICP-MS results can be found in Appendix 4. Locations of the rock grab samples can be found in Figure 5. A complete list of heavy mineral concentrate sample locations and descriptions can be found in Appendix 5 and the results can be found in Appendix 6. A complete list of silt samples can be found in Appendix 7 and the results can be found in Appendix 8. Locations of the heavy mineral concentrate samples and the stream silt samples are shown in Figure 6.

## 12.0 - DRILLING

There has been no drilling conducted on this property.

## 13.0 - SAMPLING METHOD AND APPROACH

The rock grab samples were taken by APEX personnel and all relevant information was recorded in field books and sample cards. Sample sites were located with handheld GPS devices. Rock samples were taken from outcrop, subcrop, talus, and float and were selected based upon mineralization or alteration. Samples were collected with a rock hammer and stored in sealed clear plastic sample bags with the unique sample identifier written on the bag along with a unique sample identifier card inside the sealed bag.

Heavy Mineral concentrate samples were collected using a shovel and a 2 mm mesh and pan. Samples were chosen from topographic maps to sample the major drainages into Bighorn Creek. Due to the steepness of the rugged terrain on the property, helicopter landings were sometimes not possible and in some

cases these sites were not accessible on foot. Fluvial material was collected with a shovel in the most likely areas of heavy mineral / metal sediment traps. An example of such an area would be found on the upstream side of a boulder or anywhere that there is evident deposition of iron oxide minerals. This is the type of place were gold is likely to be deposited. The material is then sieved using the mesh screens, leaving only the -2 mm sized sediment fraction. Approximately 10 Kilograms of this material was collected at each sample site and put into labeled plastic bags with outside poly woven (rice) bags. Sample bags were given a unique sample identifier written on the bag along with a unique sample identifier card inside the sealed bag. Every effort was made to fully clean all sampling tools between sample sites to avoid cross contamination.

Silt samples were taken using a shovel and craft paper bag. These samples were taken in conjunction with the heavy mineral samples. However, they were not taken at every sample site due to the fact that very fine clay material was not present at every sample site. This was in large part due to the steepness of the terrain. Because these samples are analyzed for anions that are attracted to clay particles, sample sites were chosen in the most likely areas of maximum groundwater recharge. Samples of clay were collected with a shovel and put into craft paper bags with a unique sample identifier written on the outside of the bag. Also a unique sample identifier was placed inside the bag. Every effort was made to fully clean all sampling tools between sample sites to avoid cross contamination.

## 14.0 - SAMPLE PREPARATION AND SECURITY

All of the samples were transported in the custody of APEX personnel from Atlin, B.C. to Smithers B.C. The Rock samples and Silt samples were shipped by Canadian Freight in Smithers B.C. to TSL Laboratories in Saskatoon, Saskatchewan. The Heavy Mineral Concentrate samples were shipped by Canadian Freight in Smithers, B.C. to the Saskatchewan Research Council Laboratories in Saskatoon, Saskatchewan. Once the samples arrived at each respective destination, they remained in the custody of each independent laboratory until the final processing was complete.

One-kilogram of each rock sample was crushed to 70 percent passing a 10 mesh sieve. A homogenized, 250-gram split from the minus 10 mesh sample was pulverized to 95 percent passing a 150 mesh sieve. Gold analysis conducted on the 91 samples comprised a fire assay of a 30-gram aliquot. The samples are mixed with a litharge flux and fused forming a lead button and molten slag. The slag is removed and the lead button containing the precious metals is cupelled, resulting in a precious metal bead. The bead is digested in aqua regia and the solution analyzed by atomic absorption (AA) for gold. Multi-element analysis was conducted on the 91 samples to determine abundances of various base metals and potential pathfinder elements. This comprised a hot 4-acid digestion on a

0.5-gram split of the pulverized sample and analysis by inductively-coupled plasma-emission spectrometry (ICP-ES).

Silt Stream samples were submitted for analysis at TSL Laboratories in Saskatoon, Saskatchewan where they were analyzed for Au and underwent inductively coupled plasma-emission multi element analysis.

TSL Laboratories conforms to the requirements set-out by the ISO 9001:2000 and performed standard QA/QC procedures with respect to the rock samples including an internal standard. The data for this standard analysis was found to be within acceptable limits.

The heavy mineral concentrate samples were placed into sealed poly woven bags for transport. Once they arrived at the Saskatchewan Research Council laboratories they underwent gold grain analysis and multi element analysis.
Saskatchewan Research Council conforms to the requirements set-out by the ISO 9001:2000 and performed standard QA/QC procedures with respect to the rock samples including an internal standard. The data for this standard analysis was found to be within acceptable limits.

The 2007 sampling program was successful in gathering several anomalous results in gold, silver, arsenic, chromium, copper, molybdenum, nickel, lead, and tungsten. All rock grab sample results can be found in Appendix 3 and assay certificates are found in Appendix 4. The highest gold value was 07DAP118 which yielded 32.3 parts per million. All heavy mineral sample results can be found in Appendix 5 and assay certificates can be found in Appendix 6. All silt sample results can be found in Appendix 7 and assay certificates can be found in Appendix 8.

## 15.0 – MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

In 1993, Larry Carlyle was retained by L. Whelan and Associates to review all available information regarding the Bighorn Creek Property on behalf of Micrex Development Corporation. Upon reviewing the data from Baldys (1991), Carlyle (1993a) concurred with the reserve calculation arrived at of 76,000 tons grading 0.17 ounce per ton (5.83 grams per tonne) gold. This study was prepared by person(s) holding post-secondary geology or related degrees. The information in these reports is assumed to be accurate.

## 16.0 – OTHER RELEVANT DATA AND INFORMATION

The Author is not aware of any other relevant data pertaining to the Bighorn property.

## 17.0 – INTERPREATIONS AND CONCLUSIONS

The 2007 exploration effort was successful in identifying samples that have anomalous concentrations in gold, silver, arsenic, copper, chromium, molybdenum, nickel, lead, and tungsten. Anomalous values were defined by determining the average background concentrations of all of the elements and observing significant deviations. Table 2 defines the concentrations that are referred to as anomalous in this report. Concentrations are reported in parts per million (ppm) and parts per billion (ppb). Please note that the units grams per tonne (g/t) and parts per million (ppm) are equivalent.

**Table 2: Definition of AnomalousValues**

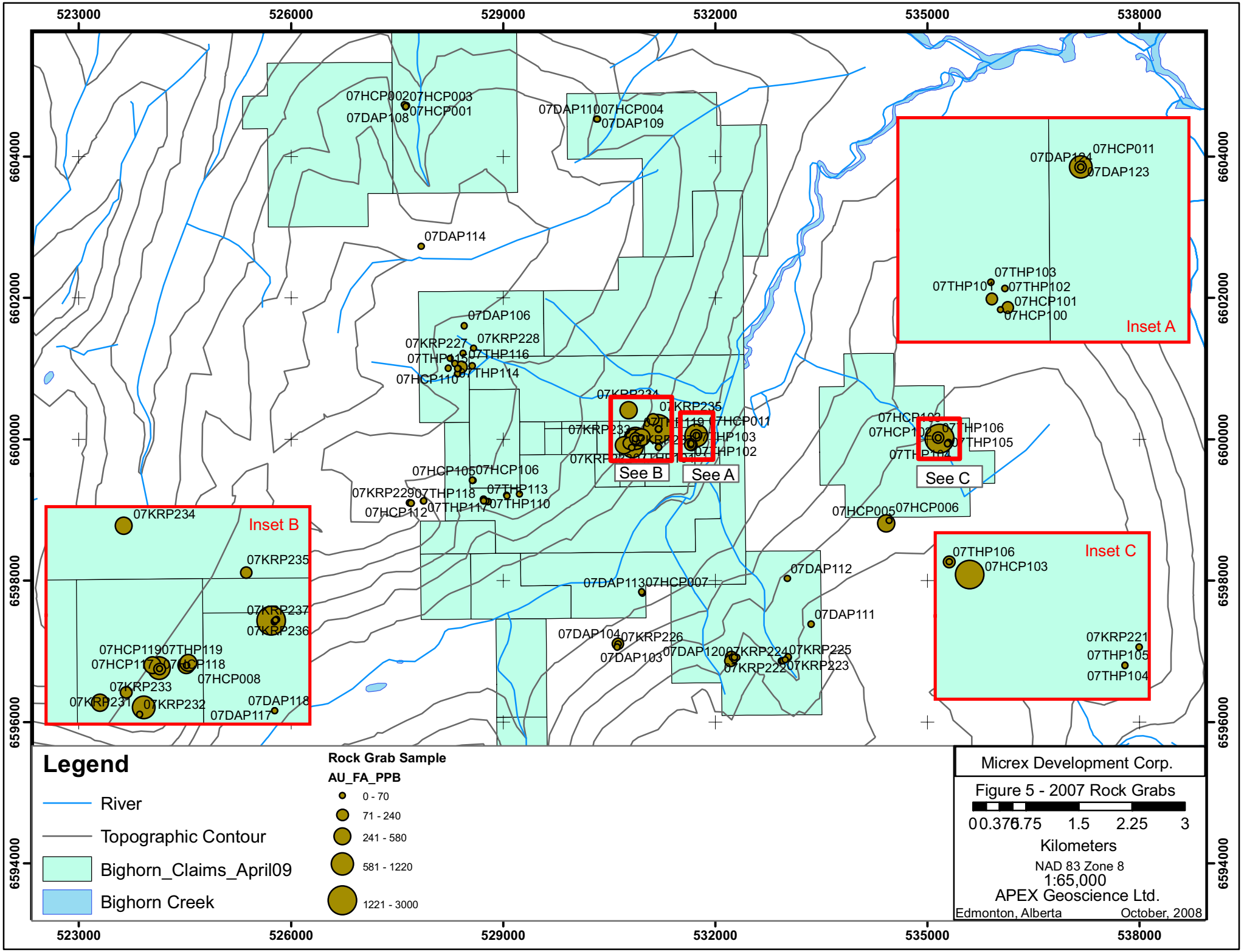
| Element | Concentration |
|---|---|
| Au (Gold) | > 100 ppb |
| Ag (Silver) | > 3 ppm |
| As (Arsenic) | > 10 ppm |
| Cr (Chromium) | > 500 ppm |
| Cu (Copper) | > 200 ppm |
| Mo (Molybdenum) | > 15 ppm |
| Ni (Nickel) | > 50 ppm |
| Pb (Lead) | > 150 ppm |
| Sb (Antimony) | > 1 ppm |
| W (Tungsten) | > 20 ppm |
| Zn (Zinc) | > 100 ppm |

A summary of anomalous Gold in rock can be found in Table 3.

**Table 3: Rock Sample Highlights**

| sample_id | Au | Au | Ag | As | Cu | Cr | Mo | Ni | Pb | W |
|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 07DAP117 | >3000 | 12.69 | 7.70 | 54.9 | 27.1 | 198 | 35.3 | 21.4 | 333.9 | 0.2 |
| 07DAP118 | >3000 | 32.3 | 8.20 | 65.5 | 16.4 | 319 | 39.7 | 23.3 | 556.5 | <0.1 |
| 07HCP110 | >3000 | 5.35 | 0.90 | 2.7 | 116.0 | 746 | 62.5 | 42.7 | 7.3 | 1.7 |
| 07HCP115 | >3000 | 6.28 | 2.20 | 0.6 | 5.6 | 269 | 21.5 | 6.0 | 3.3 | 0.2 |
| 07HCP116 | >3000 | 4.12 | 1.10 | <0.5 | 9.0 | 301 | 6.2 | 6.9 | 2.0 | 0.2 |
| 07HCP118 | >3000 | 6.31 | 11.70 | 5.7 | 100.2 | 327 | 226.6 | 9.1 | 4198.6 | 0.7 |
| 07KRP236 | >3000 | 5.11 | 3.30 | 0.6 | 8.1 | 440 | 13.0 | 9.9 | 4.0 | 0.2 |
| 07KRP237 | >3000 | 8.02 | 5.30 | 0.8 | 11.3 | 439 | 11.7 | 10.2 | 2.3 | 0.2 |

Of the 91 rock samples submitted for gold by standard fire assay, 8 samples yielded between 4.12 grams per tonne gold up to a high of 32.3 grams per tonne gold (See Figure 5). Significant copper, molybdenum and tungsten anomalies were identified along with a number of anomalous results for arsenic, antimony and mercury.


523000
526000
529000
532000
535000
538000
6604000
6602000
6600000
6598000
6596000
6594000
07HCP002
07HCP003
07DAP108
07HCP001
07DAP110
07HCP004
07DAP109
07DAP114
07DAP106
07KRP227
07KRP228
07THP116
07THP114
07HCP110
07KRP235
07HCP011
07THP103
07THP102
07HCP105
07HCP106
07KRP229
07THP118
07THP113
07THP117
07THP110
07HCP112
See B
See A
See C
Inset A
07DAP124
07HCP011
07DAP123
07THP103
07THP101
07THP102
07HCP101
07HCP100
07HCP103
07THP106
07THP105
07HCP005
07HCP006
Inset B
07KRP234
07KRP235
07KRP237
07KRP236
07HCP119
07THP119
07HCP117
07HCP118
07HCP008
07KRP233
07KRP231
07KRP232
07DAP118
07DAP117
Inset C
07THP106
07HCP103
07KRP221
07THP105
07THP104
07DAP112
07DAP113
07HCP007
07DAP111
07DAP104
07KRP226
07DAP103
07DAP120
07KRP224
07KRP225
07KRP222
07KRP223
Legend
River
Topographic Contour
Bighorn_Claims_April09
Bighorn Creek
Rock Grab Sample
AU_FA_PPB
0 - 70
71 - 240
241 - 580
581 - 1220
1221 - 3000
Micrex Development Corp.
Figure 5 - 2007 Rock Grabs
0 0.375 0.75 1.5 2.25 3
Kilometers
NAD 83 Zone 8
1:65,000
APEX Geoscience Ltd.
Edmonton, Alberta
October, 2008

The samples with the highest gold values were related the epithermal/mesothermal quartz veining at the area know as the Lawson Vein. The mineralization observed at the Lawson Vein is consistent with the mesothermal gold deposit type. The Lawson Vein can be shown to be spatially and genetically related to the regional sized faults, namely the Llewellyn fault and the Nahlin fault. Mesothermal gold deposits are often associated with regional strike slip faults and are often associated with second or third order structures that are related to the regional faults (Olsen *et al*., 1994). The Lawson Vein was measured to strike approximately east-west. A number of faults were observed to strike north-south. Also the feldspar porphyry unit that is observed to cut the Lawson Vein also strikes north-south. Joints striking north-south (parallel to the Lawson Vein) were observed to be well mineralized with pyrite, chalcopyrite, and galena.

Mineralization in the meta-sedimentary rocks hosting the Lawson Vein is associated with the yellowish Silica-Albite alteration and black manganese staining that is common in a wide area around the adits. The schistose and para-gneiss host rocks in the vicinity of the Lawson Vein exhibit metamorphism ranging from greenschist to transitional greenschist to amphibolite facies. The meta-volcanic and meta-sedimentary rocks at the Property were observed to have undergone ductile deformation. This is evidenced by large folds visible in the cliff walls as well podifrom quartz lozenges. These are both characteristics of a mesothermal gold type deposit style. Mineralization of the quartz vein was observed to be pyrite with minor galena, chalcopyrite, and sphalerite. These samples (example 07HCP117, 07HCP119, and 07DAP117) assayed anomalous concentrations in copper, lead, zinc, and molybdenum. Much of the exposed quartz vein had massive to milky texture and did not yield encouraging results. There were some exceptions to this; sample 07DAP118 assayed 32.2 grams per tonne gold. Also sample 07HCP118, a sample of the Lawson Vein yielded 6.31 grams per tonne. Samples of the adjacent wall rock returned anomalous concentrations in a variety of metals. Also, it is apparent that the mineralization is penetrative into the wall rock. Rock sample 07DAP117 was a sample of mica rich schist that was part of the wall rock. It assayed 12.69 g/t Au and was anomalous with respect to silver, arsenic, lead, and molybdenum.

Two new gold occurrences were identified from the 2007 regional sampling program. The first occurrence, sample 07HCP110, with assays of up to 5.35 grams per tonne gold, is associated with a silicified and pyrite bearing muscovite meta quarztite approximately 2.7 kilometres northwest of the Lawson Vein in a recently exposed cirque above the Lawson Vein. The second occurrence, sample 07HCP103, with assays of up to 1.73 g/t Au, 5.3 g/t Ag, 1,152 parts per million (ppm) copper and anomalous antimony and mercury, is associated with a carbonate altered meta-sedimentary unit about 3.5 km due east of the Lawson Vein on the eastern slope of Bighorn creek. Anomalies in these metals are very common in pervasively mineralized wall rock in mesothermal or high sulphidation epithermal systems. In epithermal gold deposits there is usually an elevation in

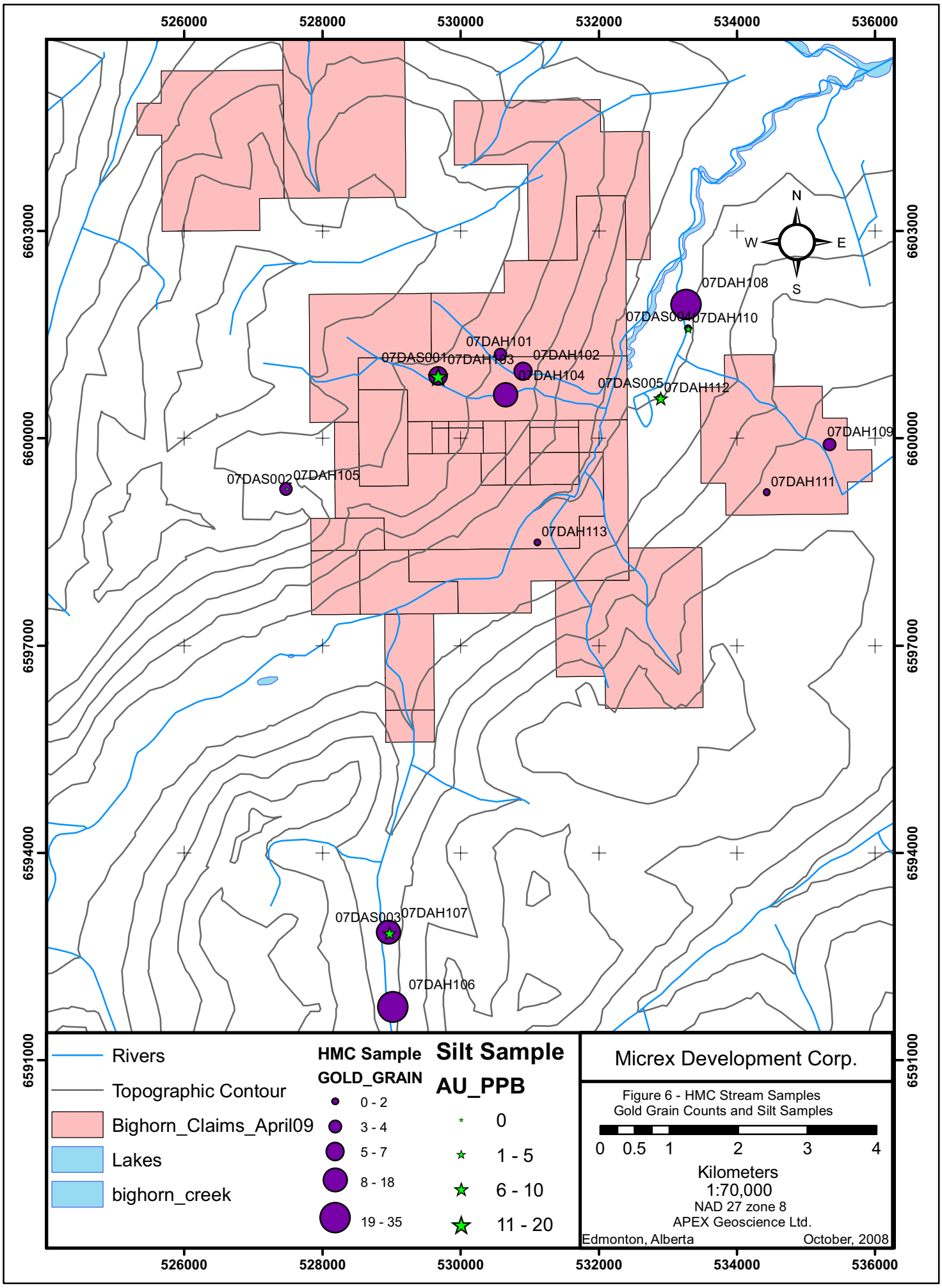
mercury and arsenic concentrations (Olsen *et al*., 1994). With new showings of outcrop running promising gold concentrations it gives more credibility to the scenario of a mesothermal or epithermal system with multiple mineralized quartz veins.

Copper concentrations ranged from a low of 3.8 ppm to a high of 6099.1 ppm with 12 of the samples assaying in excess of 200 ppm. Within that group, 6 samples assayed greater than 500 ppm with 4 of this subgroup yielding over 1,100 ppm up to 6099.1 ppm. Sample 07HCP002 assayed 6,099.1 ppm copper and also yielded greater than the detection limit (2,000 ppm) for molybdenum, 3.1 g/t Ag and anomalous arsenic. The sample was collected from altered granodiorite in the northern portions of the Property that is mostly underlain by granodioritic intrusive. Most porphyry systems are related to shallow emplaced plutons (McMillan, 1991-4). The geophysical data from the Fugro airborne survey flown in May 2007 highlights the location of these intrusives very effectively. The intrusive rocks that are associated with porphyry deposits are typically felsic to intermediate. On the Bighorn Property, samples of granodiorite talus contained anomalous concentrations in silver, arsenic, copper, molybdenum, and tungsten. Typically the porphyry deposits associated with felsic intrusives have lower gold concentrations but have higher molybdenum and tungsten. This appears to be the case with sample 07HCP002 (6099.1 ppm copper and overlimit >2000 ppm Molybdenum). This is characteristic of intrusive related porphyry type mineralization. Samples of granodiorite with pyrite, galena, and molybdenum mineralization were observed in contact with mafic metavolcanic rocks.

Chromium concentrations ranged from 12 ppm to 1219 ppm with 14 samples assaying in excess of 550 ppm. There is no discernable correlation between high chromium values and high gold values. Most of the chromium-rich results were samples of mica-rich schists and para-gneisses.

Nickel concentrations ranged from a low of 3 ppm to a high of 186 ppm. The higher nickel concentrations were typically found in higher mafic rocks with chloritic alteration. This correlation is likely due to substitution of nickel for magnesium.

Of the 13 heavy mineral concentrate stream sediment samples, all but one yielded gold as free mineral grains (See Figure 6). Of the 13 samples collected, 4 contained over 11 gold grains. Highlights include sample 07DAH108 returning 35 gold grains, 07DAH106 returning 27 gold grains, 07DAH107 returning 18 gold grains, and 07DAH104 returning 12 gold grains. From the 13 stream sediment samples collected, 120 grains of gold were recovered. Of these 120 recovered gold grains, 91 were described as having a delicate or irregular texture rather than abraded or rounded. These grains therefore likely under went little to short transport distances and were collected proximal to source. A number of these samples were collected well away from the influence of the known gold bearing


526000
528000
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534000
536000
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6600000
6597000
6594000
6591000
N
W
E
S
07DAH108
07DAS004
07DAH110
07DAH101
07DAS001
07DAH103
07DAH102
07DAH104
07DAS005
07DAH112
07DAH109
07DAS002
07DAH105
07DAH111
07DAH113
07DAS003
07DAH107
07DAH106
Rivers
Topographic Contour
Bighorn_Claims_April09
Lakes
bighorn_creek
HMC Sample
GOLD_GRAIN
0 - 2
3 - 4
5 - 7
8 - 18
19 - 35
Silt Sample
AU_PPB
0
1 - 5
6 - 10
11 - 20
Micrex Development Corp.
Figure 6 - HMC Stream Samples
Gold Grain Counts and Silt Samples
0 0.5 1 2 3 4
Kilometers
1:70,000
NAD 27 zone 8
APEX Geoscience Ltd.
Edmonton, Alberta
October, 2008

Lawson Vein and give a strong indication of multiple gold sources that are shedding small gold particles into local drainages. This further supports the likelihood that there are multiple gold bearing structures on the Bighorn Property, giving support to the probability of a larger scale gold potential in the area.

The silt sampling was unsuccessful in detecting gold anomalies in streams. All fire assay gold results came back below anomalous levels (See Figure 6). Field crews were only able to collect 5 silt stream samples. This was largely due to the fact that due to the ruggedness of the terrain, there was very little clay sized material in the alpine drainages and there were many limitations to helicopter access. The silt sample with the highest gold value, assayed 20 ppb gold.

## 18.0 - RECOMENDATIONS

Based on the results of the 2007 exploration program further work is warranted. The samples with the highest gold values were related to the epithermal/mesothermal Lawson quartz veins. It is established though many samples taken at the adits that both the quartz veins and the country rock are enriched in gold, silver, and other precious and base metals. This should be the focus of a 1000 metre drill program. Geologist and drill crew will find accommodation in the town of Atlin. The drill must be helicopter portable as there is no other access to the Property. Helicopter services can be hired through Discovery Helicopters based in Atlin. Additionally, follow up on new gold showings such as samples 07HCP110 and 07HCP103 is necessary to try and explain and expand on these anomalies. The proposed exploration budget is approximately $500,000 CND plus PST/GST.

**BUDGET**

| | |
|---|---|
| Drill Costs | $260,000 |
| Helicopter Costs | $130,000 |
| Senior Geologist | $6500 |
| Project Geologist | $16,800 |
| Junior Geologist/Assistant | $12,600 |
| Analytical Costs | $25,000 |
| Accommodation and Food | $31,500 |
| Fuel (Drill) | $11,000 |
| Truck (Plus Fuel) | $4600 |
| Flights | $2000 |

TOTAL - (Excluding PST/GST) $500,000Cnd.

**APEX Geoscience Ltd.**

Dean Besserer, B.Sc., P. Geol.

David Arsenault, B.Sc., Geol.I.T

## 19.0 - REFERENCES

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## 20.0 – CERTIFICATE OF AUTHOR

CERTIFICATE OF AUTHOR

I, Dean J. Besserer, residing at #517, 23033, Sherwood Park, Alberta, Canada, do hereby certify that:

1. I am a principal and Vice President of APEX Geoscience Ltd. ("APEX"), Suite 200, 9797-45 Avenue, Edmonton, Alberta, Canada.

2. I am a graduate of the University of Western Ontario, London, Ontario with a B.Sc. in Geology (1994) and have practiced my profession continuously since 1994.

3. I am a Professional Geologists registered with APEGGA (Association of Professional Engineers, Geologists, and Geophysicists of Alberta), and NAPEGG (Northwest Territories Association of Professional Engineers, Geologists, and Geophysicists) and a 'Qualified Person' in relation to the subject matter of this report.

4. I have not received nor do I expect to receive, any interest, directly or indirectly, in the Bighorn Property and do not hold securities of Micrex Development Corporation.

5. I am not aware or any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report of the omission to disclose which makes the Report misleading.

Dean J. Besserer, B.Sc., P.Geol.

Edmonton, Alberta, Canada
October 18, 2008

CERTIFICATE OF AUTHOR

I, David Arsenault, residing at #103, 11435-45 Avenue, Edmonton, Alberta, Canada do hereby certify that:

1. I am a graduate of Memorial University with a B.Sc. degree in Geology (2006) and have practiced my profession continuously since 2006

2. I am a Geologist-in-Training registered with APEGGA (Association of Professional Engineers, Geologists, and Geophysicists of Alberta).

3. I am a Geologist-in-Training in the employ of APEX Geoscience Ltd. and have been since 2006.

4. I have not received, nor expect to receive, and interest directly or indirectly, in the Bighorn Property.

5. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report of the omission to disclose which makes the Report misleading.

6. I have visited the Property that is the subject of this Report in August of 2007.

David Arsenault, B.Sc., Geol.I.T.

Edmonton, Alberta, Canada
October 18, 2008

# APPENDIX 1
# 2007 BIGHORN PROPERTY EXPENDITURES

**Appendix 1**
**2007 Bighorn Expenditures**

| Category Description | Rate | Unit | Comment | Cost CND$ |
|---|---|---|---|---|
| **Salaries** | | | | |
| **Principal Geologists** | | | | |
| Michael Dufresne - Office | $650.00 | 8.68 | Principals Directly Involved - Office Michael Dufresne (June 22-July 21/07) | $1,690.00 |
| | | | Principals Directly Involved - Office Michael Dufresne (July 22-Aug 21/07) | $1,774.50 |
| | | | Principals Directly Involved - Office Michael Dufresne (Aug 22-Sept 21/07) | $1,215.50 |
| | | | Principals Directly Involved - Office Michael Dufresne (Sept 22-Oct 21/07) | $1,644.50 |
| | | | Principals Directly Involved - Office Michael Dufresne (Oct 22-Nov 21/07) | $357.75 |
| | | | Principals Directly Involved - Office Michael Dufresne (Jan 1- 22/08) | $270.00 |
| | | | Principals Directly Involved - Office Michael Dufresne (May 22-June 21- 22/08) | $270.00 |
| Michael Dufresne - Field | $650.00 | 2.5 | Principals Directly Involved - Field Michael Dufresne (July 22-Aug 21/07) | $1,625.00 |
| Dean Besserer - Office | $650.00 | 0.48923 | Principal Directly Involved - Office Dean Besserer (July 22-Aug 21/07) | $318.00 |
| **Total - Salaries - Principals** | | | | **$9,165.25** |
| **Geologists** | | | | |
| **Office** | | | | |
| Rob L'Heureux | | | Geological Services Performed Office - Rob L'Heureux (May 22-June 21/07) | $170.00 |
| Andrew Turner | | | Geologist Involved Office - Andrew Turner (May 22-June 21/07) | $630.00 |
| Kris Raffle | | | Geological Services Performed Office - Kris Raffle (June 22-July 21/07) | $29.75 |
| | | | Geological Services Performed Office - Kris Raffle (July 22-Aug 21/07) | $29.75 |
| Tara Gunson | $300.00 | 0.13 | Geological Services Performed Office - Tara Gunson (July 22-Aug 21/07) | $201.00 |
| | | | Geological Services Performed Office - Tara Gunson (Aug 22-Sept 21/07) | $39.00 |
| Dave Arsenault | $300.00 | 9 | Geological Services Performed Office - Dave Arsenault (Nov 22-Dec 21/07) | $2,700.00 |
| Peter Whyte | $450.00 | 2.7 | Geological Services Performed Office - Peter Whyte (Aug 22-Sept 21/07) | $373.50 |
| | | | Geological Services Performed Office - Peter Whyte (Sept 22-Oct 21/07) | $180.00 |
| | | | Geological Services Performed Office - Peter Whyte (Oct 22-Nov 21/07) | $13.50 |
| | | | Geological Services Performed Office - Peter Whyte (Nov 22-Dec 21/07) | $571.50 |
| | | | Geological Services Performed Office - Peter Whyte (June 22-July 21/08) | $76.50 |
| Heather Clough | $250.00 | 0.27 | Geological Services Performed Office - Heather Clough (July 22-Aug 21/07) | $432.50 |
| | | | Geological Services Performed Office - Heather Clough (Jan 1-21/08) | $67.50 |
| Dave Toni | $250.00 | 0.07 | Geological Services Performed Office - Dave Toni (June 22-July 21/08) | $17.50 |
| **Total - Salaries - Geologists - Office** | | | | **$5,532.00** |
| **Field** | | | | |
| Kris Raffle | $475.00 | 4.5 | Geological Work Performed Field - Kris Raffle (July 22-Aug 21/07) | $2,137.50 |
| Dave Arsenault | $400.00 | 13 | Geological Services Performed Field - David Arsenault (July 22-Aug 21/07) | $5,200.00 |
| Ellie Knight | $400.00 | 6 | Geological Services Performed Field - Ellie Knight (July 22-Aug 21/07) | $2,400.00 |
| Heather Carey | $400.00 | 5 | Geological Services Performed Field - Heather Carey (July 22-Aug 21/07) | $2,000.00 |
| Heather Clough | $350.00 | 9 | Geological Services Performed Field - Heather Clough (July 22-Aug 21/07) | $2,925.00 |
| Tom Hildahl | $300.00 | 10 | Geological Services Performed Field - Thomas Hildahl (July 22-Aug 21/07) | $3,000.00 |
| **Total - Salaries - Geologists - Field** | | | | **$17,662.50** |
| **Secretarial** | | | | |
| Carol Andrew | $200.00 | 0.09 | Clerical - Carol Andrews (May 22-June 21/07) | $6.00 |
| | | | Clerical - Carol Andrews (July 22-Aug 21/07) | $6.00 |
| Linda Belanger | $200.00 | 0.1 | Clerical - Linda Belanger (July 22-Aug 21/07) | $6.00 |
| | | | Clerical - Linda Belanger (Aug 22-Sept 21/07) | $14.00 |
| | | | Clerical - Linda Belanger (Sept 22-Oct 21/07) | $6.00 |
| **Total - Salaries - Secretarial** | | | | **$38.00** |
| **Total Salaries** | | | | **$32,397.75** |
| **Field Costs** | | | | |
| Accommodation | | | | $3,288.40 |
| Analytical and related costs | | | | |
| TSL - rock grab and silt assays | | | | $3,100.10 |
| SRC - heavey mineral concentrate assays | | | | $2,920.65 |
| Vancouver Petrographic - assay analysis | | | | $583.50 |
| Communication | | | | $164.34 |
| Food | | | | $1,954.17 |
| Fuel | | | | |
| Regular | | | | $1,119.18 |
| Helicopter | $1.22/L | 2234.41 | | $2,725.98 |
| Freight | | | | |
| Regular | | | | $101.95 |
| Samples | | | | $712.28 |
| Field Supplies | | | | $217.73 |
| Helicopter Flight Costs | $990.00/hr | 19.6 | | $19,404.00 |
| Travel (Airfares, Taxies, etc.) | | | | $4,775.64 |
| **Total Field Costs - Net (Loaded Costs)** | | | | **$41,067.92** |
| **Rentals, Repairs, and Micellaneous Consumables** | | | | |
| Rentals - Vehicles, Computers, GPS, Communications Equipment, etc. | | | | $3,550.00 |
| Consulting Fee and Miscellaneous consumables | | | | $2,329.60 |
| **Total Rentals, Repairs, and Miscellaneous Consumables - Net (Loaded Costs)** | | | | **$5,879.60** |
| **Total 2007 Bighorn Expenditures** | | | | **$79,345.27** |

# APPENDIX 2
# MAN DAYS

# Appendix-2
# Man Days

| Name | Time In Field | Man Days |
|---|---|---|
| Michael Dufresne | August 8 – August 10 | 2.5 |
| Kristopher Raffle | August 8 – August 12 | 4.5 |
| David Arsenault | August 8 – August 20 | 13 |
| Heather Carey | August 8 – August 12 | 5 |
| Ellie Knight | August 16 – August 21 | 6 |
| Heather Clough | August 11 – August 19 | 9 |
| Tom Hildahl | August 8 – August 17 | 10 |

Total Man Days - 50

# APPENDIX 3
# ROCK GRAB SAMPLE LOCATIONS AND DESCRIPTIONS

| APPENDIX 3 | SAMPLE LOCATIONS AND DESCRIPTIONS | | | | | |
|---|---|---|---|---|---|---|
| | Easting | Northing | | | | |
| sample_id | Nad27z8 | Nad27z8 | lithology | magnetism | disposition | Desription |
| 07DAP101 | 533038 | 6596902 | pelitic schist | none | talus | pelitic schist with 40% muscovite, 20% biotite. |
| 07DAP102 | 532942 | 6596856 | mica quartzite schist | weak | talus | sericite and muscovite bands with quartzite bands. Very deformed and foliated. |
| 07DAP103 | 530634 | 6597097 | rusty quartz vein | none | outcrop | rusty quartz vein with minor pyrite (less than 1 %) |
| 07DAP104 | 530634 | 6597097 | mica schist | none | outcrop | yellow-dark reddish Fe Oxidized. Wall rock of the quartz vein of 07DAP103. |
| 07DAP105 | 528260 | 6601136 | rusty quartz vein | none | boulder | rusty quartz vein with approx 3 % pyrite |
| 07DAP106 | 528458 | 6601601 | mica schist | none | outcrop | highly rusted dyke of mica schist. Strike 340. |
| 07DAP107 | 527610 | 6604728 | granodiorite | none | talus | 40% quartz, 20% feldspars, 20% biotite, 20% amphiboles. 5 % disseminated pyrite. |
| 07DAP108 | 527629 | 6604700 | granodiorite | none | talus | 40% quartz, 20% feldspars, 20% biotite, 20% amphiboles. 3 % disseminated pyrite. Also malachite with trace chalcopyrite. |
| 07DAP109 | 530347 | 6604520 | mica schist | none | outcrop | 20% quartz, 40% biotite, 10% chlorite. Very soft rusty mica schist with 20% disseminated pyrite. |
| 07DAP110 | 530327 | 6604525 | quartz mica schist | none | outcrop | 40% quartz, 20 % feldspar, 40% biotite with 5 % disseminated pyrite. Some quartz lenses. |
| 07DAP111 | 533362 | 6597377 | qtz vein | strong | outcrop | 90% qtz, 5% sulphides and 5% ox with 3% pyrite. Qtz vein in biotite schist. Pyrite crystals along magnetite veins. Strike unclear due to slump frcturing on cliff face |
| 07DAP112 | 533024 | 6598020 | qtz vein | weak | outcrop | 95% qtz and 5% pyrite. Rusty qtz vein with Si alt, pyrite and ilmenite |
| 07DAP113 | 530980 | 6597820 | qtz pod | none | outcrop | 100% qtz, course grain size, low veining and mod relief |
| 07DAP114 | 527845 | 6602723 | rusty vuggy quartz vein | none | boulder | 100% quartz, med grain size. Qtz is rusty and vuggy. Lots of large pieces of vein ~15cm thick all in one pile |
| 07DAP115 | 530957 | 6600013 | qtz pod | none | outcrop | 100% qtz,med grain size. Qtz pod at ADIT-blacksmith. Very steeply dipping ADIT. Qtz is rusty |
| 07DAP116 | 530957 | 6600013 | altered mica gneiss | none | outcrop | qtz, muscovite and biotite, fine grained with strong silicious alteration |
| 07DAP117 | 531205 | 6599885 | mica schist | none | outcrop | |
| 07DAP118 | 531205 | 6599885 | qtz vein | none | outcrop | quartz vein. |
| 07DAP119 | 532222 | 6596855 | quartz vein | none | outcrop | quartz vein in chl-bt-gneiss with pyrite |
| 07DAP120 | 532235 | 6596908 | chlorite-biotite gneiss | none | boulder | 30% of each biotite and ampibole, and 20% of each feldspars and chlorite. 10% pyrtie. Fine grained chlorite-biotite gneiss with coarse pyrite. |
| 07DAP121 | 532280 | 6596874 | altered quartzite | none | boulder | altered orange-yellowish with quartz veins |
| 07DAP122 | 532249 | 6596909 | chl-feldspar porphyritic rock | none | boulder | Boulder in glacier valley with pyrite |
| 07DAP123 | 531739 | 6600045 | silicified gneiss. | none | outcrop | 40% quartz, 25% feldspars, 10% biotite, 20% amphibole. Silicified gneiss. Chip sample taken at lower adit from vein contact to 0.5 m out from vein. |
| 07DAP124 | 531739 | 6600045 | quartz vein | none | outcrop | Sample taken from roof of adit driven through quartz vein approx 0.6 m wide. |
| 07HCP001 | 527631 | 6604706 | Granodiorite | none | talus | 40% quartz, 20% of each feldspars and biotite, 15% amphibolite, and 5% pyrite-found along frct surface of 1/2 meter boulder. |
| 07HCP002 | 527641 | 6604713 | Granodiorite | none | talus | 50% quartz, 15% of feldspar, 10% of each biotite and amphibolite, and 5% of each pyrite and galena-found throughout. |
| 07HCP003 | 527631 | 6604703 | Granodiorite | none | talus | 40% quartz, 20% of each feldspars and biotite, 15% amphibolite, and 5% pyrite. |
| 07HCP004 | 530334 | 6604525 | Chlorite Schist | none | talus | 50% chlorite, 30% quartz, and 5 0f each feldspars, biotie,amphibolite and pyrite. |
| 07HCP005 | 534469 | 6598842 | Gneiss | none | float | 40% of each quartz and chlorite, 10% biotite and 5% of each muscovite and pyrite |
| 07HCP006 | 534426 | 6598806 | Chlorite Schist | none | float | 40% chlorite, 20% biotite, 10% quartz and 5% of each muscovite and pyrite |
| 07HCP007 | 530969 | 6597834 | Mica Quartz Rich Paragneiss | none | outcrop | 40% of each quartz and biotie. Minor-moderate silicification. Pod of quartz. |
| 07HCP008 | 530962 | 6600020 | Quartz Biotie Gneiss | none | tailings | 50% quartz, 40% of biotite and 5% of each muscovite and pyrite. Material sampled from tailings of audit, dark golden pyrite |
| 07HCP009 | 532317 | 6596904 | Quartzite | none | boulder | 90% quartz, 10% muscovite, 5% chlorite, <1% pyrite. Sample taken from rock in overburden in cirque |

| APPENDIX 3 | SAMPLE LOCATIONS AND DESCRIPTIONS | | | | | |
|---|---|---|---|---|---|---|
| | Easting | Northing | | | | |
| sample_id | Nad27z8 | Nad27z8 | lithology | magnetism | disposition | Desription |
| 07HCP010 | 532278 | 6596910 | chlorite quartzite | none | boulder | 80% quartz, 15% chlorite, 5% pyrite. Found in cirque. Large pyrite crystals |
| 07HCP011 | 531739 | 6600045 | Mafic Dyke | none | outcrop | 40% quartz, 50% feldspars, 10% chlorite. Lowest ADIT sample of dyke crosscuttin quartz vein. Small quartz veining in dyke. |
| 07HCP100 | 531663 | 6599910 | chl altered cherty metased | no | boulder | aphanitic chl altered chert metased/quartzite, fine to coarse dissem PY 3%, strong Si alteration, qtz veins (irreg, mm-cm), subang bldr, mod rusty with qtz veins, sample taken from talus rubble near adit |
| 07HCP101 | 531670 | 6599912 | meta-argillite with qtz veins | no | boulder | very fine gr, minor Si alteration, aphanitic dark grey blk rk, qtz veinlets(mm), subrounded-ang bldr taken from talus rubble near adit, surface weathering green-brwn colour, mod dissem PY 2% near rk edges and near FR's, bldrs of same litho in area (5-10% |
| 07HCP102 | 535160 | 6600012 | chloritic cherty to sideritic quartzite | no | outcrop | fine gr, str Si and Cbn alteration, variations of alteration along SHEAR (rk is v friable and deformed), chl cherty qtzite nearing an increase in mafics (chl+hbe) and a siderite alteration qtzite, f dissem PY 2%, near contact with aphanitic mafic (tufface |
| 07HCP103 | 535176 | 6600002 | sideritic quartzite with qtz veins | no | outcrop | fine gr, str Si and Cbn alteration, MALACHITE minz 2-5%, o/c near sample HCP102, SHEAR zone with sideritic alteration, near contact with silicified tuffaceous mafic volcanics |
| 07HCP104 | 529237 | 6599218 | foliated Bt qtz flds meta-volcanic | no | boulder | mod Si alteration, high relief, TR dissem PY, rusty subrounded bldr 30x30cm in till downice of glacier, likely a intermediate volcanic unit, where mafics have altered to Bt and stretched into foliation planes |
| 07HCP105 | 528581 | 6599410 | plag qtz Bt gneiss | no | outcrop | f-m gr, 2% PY, mod cbn Si alteration, high relief, more felsic than sample HCP104, finely dissem PY along FR, sideritic alteration of qtz/plag bands, gneissic banding is slightly deformed |
| 07HCP106 | 528571 | 6599416 | Bt qtz gneiss | no | boulder | f gr, mnr cbn Si alteration, sideritic alteration, possible limonite (?) alteration as well, rusty bldr in felsenmeer, subang bldr, immature gneiss with aphanitic mafics, TR finely dissem PY, sample taken from till cover along glacier path/downice of cirq |
| 07HCP107 | 528233 | 6600998 | quartzite with Bt bands | no | boulder | f gr, str Si alteration, high relief, TR PY, metased (quartzite) with very thin (mm) Bt bands, rusty subang bldr in frost breaking parallel to band structures, trace dissem silvery PY, sample taken from glacier valley/basin (fresh till) |
| 07HCP108 | 528366 | 6600925 | banded quartzite | no | boulder | med gr, 5% PY, high relief, str Si alteration, mod qtz veining parallel to bands, f-coarsely dissem PY along grey qtz bands, rusty subang bldr 20x15cm within till/outwash from cirque morraine |
| 07HCP109 | 528366 | 6600925 | qtz vein in intermed. Qtz chl gneiss | no | boulder | f gr, TR PY, high relief, str Si alteration, mod qtz veining, angular rusty bldr in cirque morraine - till/bldr washout, f dissem PY in geniss and within qtz vein (4cm across), sampled gneissic and qtz vein material |
| 07HCP110 | 528367 | 6600996 | silicified qtz muscovite gneiss | no | outcrop | f gr, 5% PY mod Si alteration, high relief, rusty o/c in vincinity of aphanitic mafic dyke, f dissem PY along FR and within rk, sample o/c within glacier basin/valley, o/c surrounding rusty zone = slight-mod deformation, dyke orientation 060 trend 30cm wi |
| 07HCP111 | 528567 | 6601033 | quartzite gneiss | no | outcrop | f gr, TR PY, high relief, str Si alteration, mod qtz veining, rusty gneissic o/c with mafic dyke oriented at 180 trend 20cm wide, f dissem PY, areas of more mafic gneissic foliations with mod-intense deformation, sample taken within glacier basin/valley w |

| APPENDIX 3 | SAMPLE LOCATIONS AND DESCRIPTIONS | | | | | |
|---|---|---|---|---|---|---|
| | Easting | Northing | | | | |
| sample_id | Nad27z8 | Nad27z8 | lithology | magnetism | disposition | Desription |
| 07HCP112 | 527879 | 6599116 | qtz Bt gneiss | no | boulder | Deformed gneissic bands, 5% weathered pyrite on rock surface, f-m disseminated pyrite with in rock, rusty sub-ang bldr 40x60cm. In talus from glacier. Qtz augen 3cm w/in smaple w/ py in veinlet beside and within pressure shadow (post deformation) |
| 07HCP113 | 531195 | 6600139 | rusty quartzite metased | no | outcrop | vuggy He alteration along FR/weakness in RK, TR dissem Py within vuggy rust red alteration, rusty o/c w. qtz vein (cm) v. rust red color to weathered surfaces/FR's, protolith (?)=metased. Sampled same area as 04JAP213 (8grams Au) |
| 07HCP114 | 531203 | 6600135 | altered quartzite | no | outcrop | pink alteration-within crystallaine matrix (?) vuggy hematitic zones/clusters w/ coarsely dissem py, sideritic alteration near He clusters and along FR surfaces, rusty o/c w/ conjugate jointing |
| 07HCP115 | 531203 | 6600137 | altered vuggy quartzite | no | outcrop | coarsely dissem Py, EXTREMELY vuggy, sideritic alteration, sample taken from area of 01CSP418 (82g Au) rusty orange o/c, hematite +/- siderite alteration near vugs. |
| 07HCP116 | 531210 | 6600142 | siliceous quartzite-cherty | no | outcrop | samples 07HCP113 to 07HCP116 were taken from S tp N along o/c (rusty) Au anomaly (82gAu). Each sample has a diff degree of alteration and weathering. Slightly vuggy near surfaces w/ He. Coarsly dissem Py 20% |
| 07HCP117 | 530881 | 6600002 | quartzite gneiss wall rock | no | outcrop | sideritic alteration, fine dissem Py=TR, rusty jointed/FR wall rock SOUTH of ADIT entrance (qtz vein) Chip sample |
| 07HCP118 | 530881 | 6600003 | qtz vein in ADIT | weak | outcrop | possible magnetite near center of vein-altered region on roof of ADIT, sideritic alteration, yellow powder (opaque) on FR surfaces of qtz vein(?) coarsly dissemenated Py (5-20%, sample taken 1/2 way into ADIT along roof (chip sample) 1.1m-2.3m= 1.2 m leng |
| 07HCP119 | 530880 | 6600005 | qtz Bt/pyx(?) gneiss | no | outcrop | f. dissem Py (5%), rusty o/c n orth of ADIT/ qtz vein w/ Py min, chip sample=2.3-4m=1.7m |
| 07KRP221 | 535307 | 6599946 | Quartzite gneiss | none | | 80% quartz, and 5% of each felds and biotite, <1% pyrite. Med grain size, low veining and siliceous alteration |
| 07KRP222 | 533039 | 6596914 | Biotite schist | | | 15% pyrite, medium grain size, 40%qtz, 20% flds, 40% bt, py along sinuous biotite defined shear fabric as < 1-2 mm veinlets, semi massive |
| 07KRP223 | 532966 | 6596862 | quartz muscovite schist | | talus | 10% pyrite, some magnetite, medium grain size, qtz and ms present, moderate veining |
| 07KRP224 | 532943 | 6596856 | quartz muscovite schist | strong | outcrop | 15% pyrite, 5% magnetite, medium grain size, 60% qtz, 40% ms, strong siliceous alteration, moderate veining, strike/dip: 010/50, schistocity, open folds, crenulations, Fe-oxidized, deformation zone around 5-10 m wide |
| 07KRP225 | 532997 | 6596874 | muscovite schist | none | talus | 50% pyrite, medium grain size, qtz and ms present, siliceous alteration, high veining, pyrite along crenulated muscovite laminae |
| 07KRP226 | 530620 | 6597052 | qtz vein | none | outcrop | 0.5% pyrite, high veining, sugary ball qtz vein with disseminated pyrite |
| 07KRP227 | 528440 | 6601207 | qtz vein | none | outcrop | 0.5% pyrite, high veining, medium grain size, siliceous alteration, low relief, vein subcrop, disseminated pyrite and mm-scale fracture veinlets, striking around 240 |
| 07KRP228 | 528590 | 6601281 | meta quartzite | none | outcrop | 5% pyrite, medium grain size, laminated qtz bands, recrystallized, sugary texture, disseminated pyrite along fractures and parallel to laminae |
| 07KRP229 | 527681 | 6599093 | banded qtz bio gneiss | | outcrop | 5% pyrite, medium grain size, strong siliceous alteration, low veining, fine grained pyrite disseminated, 50% qtz, 50% biotite/muscovite |
| 07KRP230 | 530787 | 6599937 | quartz muscovite gneiss (meta sed) | none | outcrop | 60% quartz, 20% muscovite and 10% of each felds and biotite, 1% pyrite. K-spar/sericitized vein. Mm scale qtz +/- py stronger |
| 07KRP231 | 530836 | 6599895 | qtz-felds metased gneiss | none | outcrop | 60% qtz, 40% felds, 4% pyrite. Med grain size with mod vein. K-Si altered zone, qtz flooded |

| APPENDIX 3 | SAMPLE LOCATIONS AND DESCRIPTIONS | | | | | |
|---|---|---|---|---|---|---|
| | Easting | Northing | | | | |
| sample_id | Nad27z8 | Nad27z8 | lithology | magnetism | disposition | Desription |
| 07KRP232 | 530825 | 6599876 | Qtz meta sed gneiss | none | outcrop | qtz and feldspars with <0.5% pyrite. Low-mod veining with strong K-Si alteration +/- disseminated pyrite |
| 07KRP233 | 530714 | 6599908 | clay altered qtz meta sed gneiss | none | outcrop | qtz and felds with <1% pyrite. Med grain size with strong clay/argillite alteration. Mode veining |
| 07KRP234 | 530781 | 6600405 | qtz vein | none | outcrop | med grain size qtz and felds with <1% pyrite. Strong Si and K alteration |
| 07KRP235 | 531125 | 6600273 | | | | qtz flooded fsp altered to chalky clays limonite oxidized after sulphides along mm scale frcts |
| 07KRP236 | 531207 | 6600140 | qtz vein | | | 4" qtz vein, vuggy oxidized py. Repeat of 01CSP418 (82ppm Au) |
| 07KRP237 | 531207 | 6600140 | qtz vein | | | qtz vein strike=90 and dip=90. 01CSP418 repeat |
| 07THP101 | 531655 | 6599920 | meta quartzite | weak | outcrop | trace pyrite and chalcopyrite, medium grain size, strong siliceous alteration, low relief, high iron staining, some unkown, euhedral, black mineral, and trace magnetite, finely disseminated pyrite, sampled 20 m NW of adit at the botton of bighorn mountain |
| 07THP102 | 531667 | 6599930 | meta sed gneiss | weak | talus | 5% pyrite, medium grian size, qtz, flds, bt/amph present, strong siliceous, low relief, pyrite can either be rusty oragne due to weathering or cubic crystals, moderately disseminated, unknown black mineral associated with pyrite, dark greenish colour surr |
| 07THP103 | 531654 | 6599936 | meta sed gneiss | weak | talus | trace pyrite, medium grain size, qtz, flds, bt/amph present, strong siliceous alteration, low relief, high iron staining, moderately disseminated pyrite, dark greenish colour around pyrite, 35 m NW of adit at bottom of bighorn mountian |
| 07THP104 | 535296 | 6599932 | qtz vein with qtz, muscovite wall rock | none | boulder | trace pyrite, medium grain size, qtz, ms, cbn(?) present, cm size size qtz/carbonate veins, chlorite alteration in wall rock, metamafic units found on either side of bldr area |
| 07THP105 | 535296 | 6599932 | qtz veinlets through qtz and musco wall rock | none | boulder | medium grain size, qtz, flds, and ms present, strong siliceous alteration, moderate veining, rusty, quartz veinlets through meta sed, chlorite alteration, located b/w two meta mafic units |
| 07THP106 | 535160 | 6600012 | meta volcanic with phenocrysts | moderate | outcrop | trace pyrite, fine grain size, strong siliceous alteration, high relief, moderately disseminated pyrite along fractures, sampled above contact at shear zone with another unit, very rusty |
| 07THP107 | 529057 | 6599199 | schistosed gneiss | none | outcrop | trace pyrite, medium grain size, strong siliceous alteration, high veining, high relief, high iron staining, finely disseminated pyrite, extensive weathering |
| 07THP108 | 529061 | 6599190 | qtz pod | none | outcrop | strong siliceous alteration, high veining, high relief, qtz pods in highly rusty schistosed gneiss at contact with mafic gneiss, qtz is milky coloured |
| 07THP109 | 528795 | 6599113 | meta sed gneiss | none | outcrop | trace pyrite, medium grain size, qtz and ms present, strong siliceous alteration, moderate veining, high relief, high iron staining, finely disseminated pyrite, some qtz/calcite veins |
| 07THP110 | 528762 | 6599118 | qtz vein/pod | none | outcrop | medium grain size, strong siliceous alteration, high veining, high relief, high irong staining, 30 cm thick, milky colour, sugarry grain texture, meta sed gneiss wall rock |
| 07THP111 | 528732 | 6599123 | meta sed gneiss | none | outcrop | medium grain size, qtz, ms, and possibly cbn present, strong siliceous alteration, moderate veining, high relief, high iron staining, highly weathered |
| 07THP112 | 528733 | 6599145 | meta sed gneiss | none | outcrop | medium grain size, qtz, ms, and cbn present, strong siliceous alteration, high relief, mm size qtz/calcite veinlets running perpendicular to foliation, high iron staining, extensive weathering |
| 07THP113 | 528730 | 6599147 | qtz/calcite pod | none | outcrop | strong siliceous alteration, qtz and cbn present, moderate veining, high relief, moderate iron staining, qtz/calcite pod in meta sed gneiss, some calcite crystals growing in vuggies in pod |

| APPENDIX 3 | SAMPLE LOCATIONS AND DESCRIPTIONS | | | | | |
|---|---|---|---|---|---|---|
| | Easting | Northing | | | | |
| sample_id | Nad27z8 | Nad27z8 | lithology | magnetism | disposition | Desription |
| 07THP114 | 528326 | 6601068 | meta sed gneiss | none | outcrop | 5% pyrite, medium grain size, qtz and ms present, strong siliceous alteration, moderate veining, high relief, high iron staining, moderately disseminated pyrite |
| 07THP115 | 528370 | 6600996 | mafic dyke | weak | outcrop | fine grain size, flds, amp, and pyx present, high relief, mafic dyke orientated 060 degrees through a meta sed gneiss |
| 07THP116 | 528422 | 6601017 | meta sed gneiss | none | talus/boulder | 10% pyrite, possible trace chalcopyrite, medium grain size, qtz and ms present, strong siliceous alteration, high relief, minor iron staining, highly disseminated pyrite, sampled bldr around 40x40 cm |
| 07THP117 | 527885 | 6599121 | meta sed gneiss | none | talus | trace pyrite, medium grain size, qtz and ms present, strong siliceous alteration, high relief, high iron staining, finely disseminated pyrtie, sampled bldr about 20x20 cm |
| 07THP118 | 527703 | 6599090 | qtz vein in meta sed gneiss | none | outcrop | strong siliceous alteration, high veining, high relief, qtz vein gets cut off by mafic dyke, qtz vein orientated 286 degrees |
| 07THP119 | 530861 | 6600013 | Quartz vein with metased gneiss wall rock | none | outcrop | Quartz vein with 10 % pyrite. Continuation of the main vein, moderatley disseminated pyrite. |

# APPENDIX 4
# ROCK GRAB SAMPLE ASSAY CERTIFICATES

TSL LABORATORIES
2 - 302 48th Street · Saskatoon, SK · S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

99105


gave invoice to Cherry

Company: APEX Geoscience Ltd.
Geologist: D. Arsenault
Project: AG-00722
Purchase Order:

TSL Report: S25017
Date Received: Aug 23, 2007
Date Reported: Sep 07, 2007
Invoice: 44541

Remarks:

| Sample Type: | Number | Size Fraction | Sample Preparation |
|---|---|---|---|
| Rock | 91 | Reject ~ 95% at –10 mesh (1.70 mm) | Primary Crush, Rolls Crush |
| | | | Riffle Split, Pulverize, Sand Clean |
| | | Pulp ~ 95% at –150 mesh (106 µm) | Pulp Size requested ~ 1000 g |
| Pulp | 0 | | None |

*Standard Procedure:*

*Samples for Au Fire Assay/AA (ppb) are weighed at 50 grams.*
*Samples for Au Fire Assay/Gravimetric (g/tonne) are weighed at 2 AT (58.32 grams).*

*Au ppb* - *Initial analysis of sample*
*Au1 ppb* - *Repeats that accompany initial analysis, usually two every twenty samples*
*Au g/t, Au1 g/t* - *Gravimetric repeats on values in either Au ppb column*

*GS-1P5B* - *Value is based on a 30 gram sample weight*
*G905-6* - *Value is based on a 1 AT sample weight*

| Element Name | Unit | Extraction Technique | Lower Detection Limit | Upper Detection Limit |
|---|---|---|---|---|
| Au | ppb | Fire Assay/AA | 5 | 3000 |
| Au | g/tonne | Fire Assay/Gravimetric | 0.10 | 6500 |

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# CERTIFICATE OF ANALYSIS

**SAMPLE(S) FROM** APEX Geoscience Ltd.
200 - 9797 - 45th Avenue
Edmonton, AB T6E 5V8

REPORT No.
S25017

**SAMPLE(S) OF** 91 Rock/0 Pulp

INVOICE #:44541
P.O.:

D. Arsenault
Project: Bighorn

| | Au ppb | Au1 ppb | Au g/t | File Name |
|---|---|---|---|---|
| 07HCP001 | 10 | 5 | | S25017 |
| 07HCP002 | 15 | | | S25017 |
| 07HCP003 | <5 | | | S25017 |
| 07HCP004 | 5 | | | S25017 |
| 07HCP005 | <5 | | | S25017 |
| 07HCP006 | 580 | | | S25017 |
| 07HCP007 | <5 | | | S25017 |
| 07HCP008 | 300 | | | S25017 |
| 07HCP009 | <5 | | | S25017 |
| 07HCP010 | <5 | | | S25017 |
| 07HCP011 | 910 | 830 | | S25017 |
| 07HCP100 | 40 | | | S25017 |
| 07HCP101 | 130 | | | S25017 |
| 07HCP102 | 200 | | | S25017 |
| 07HCP103 | 1730 | | | S25017 |
| 07HCP104 | 5 | | | S25017 |
| 07HCP105 | 10 | | | S25017 |
| 07HCP106 | 5 | | | S25017 |
| 07HCP107 | <5 | | | S25017 |
| 07HCP108 | <5 | | | S25017 |

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INVOICE TO: Apex Geoscience - Edmonton

Sep 07/07

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# CERTIFICATE OF ANALYSIS

**SAMPLE(S) FROM** APEX Geoscience Ltd.
200 - 9797 - 45th Avenue
Edmonton, AB T6E 5V8

REPORT No.
S25017

**SAMPLE(S) OF** 91 Rock/0 Pulp

INVOICE #:44541
P.O.:

D. Arsenault
Project: Bighorn

| | Au ppb | Au1 ppb | Au g/t | File Name |
|---|---|---|---|---|
| 07HCP109 | <5 | <5 | | S25017 |
| 07HCP110 | >3000 | | 5.35 | S25017 |
| 07HCP111 | 15 | | | S25017 |
| 07HCP112 | 5 | | | S25017 |
| 07HCP113 | 2350 | | | S25017 |
| 07HCP114 | 25 | | | S25017 |
| 07HCP115 | >3000 | | 6.28 | S25017 |
| 07HCP116 | >3000 | | 4.12 | S25017 |
| 07HCP117 | 160 | | | S25017 |
| 07HCP118 | >3000 | | 6.31 | S25017 |
| 07HCP119 | 1120 | 1110 | | S25017 |
| 07THP101 | 90 | | | S25017 |
| 07THP102 | 10 | | | S25017 |
| 07THP103 | 20 | | | S25017 |
| 07THP104 | 10 | | | S25017 |
| 07THP105 | <5 | | | S25017 |
| 07THP106 | <5 | | | S25017 |
| 07THP107 | <5 | | | S25017 |
| 07THP108 | <5 | | | S25017 |
| 07THP109 | <5 | | | S25017 |

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# CERTIFICATE OF ANALYSIS

**SAMPLE(S) FROM** APEX Geoscience Ltd.
200 - 9797 - 45th Avenue
Edmonton, AB T6E 5V8

REPORT No.
S25017

**SAMPLE(S) OF** 91 Rock/0 Pulp

INVOICE #:44541
P.O.:

D. Arsenault
Project: Bighorn

| | Au ppb | Au1 ppb | Au g/t | File Name |
|---|---|---|---|---|
| 07THP110 | <5 | 5 | | S25017 |
| 07THP111 | <5 | | | S25017 |
| 07THP112 | 5 | | | S25017 |
| 07THP113 | 5 | | | S25017 |
| 07THP114 | 10 | | | S25017 |
| 07THP115 | 15 | | | S25017 |
| 07THP116 | 200 | | | S25017 |
| 07THP117 | 5 | | | S25017 |
| 07THP118 | 5 | | | S25017 |
| 07THP119 | 490 | | | S25017 |
| 07KRP221 | 10 | 10 | | S25017 |
| 07KRP222 | 15 | | | S25017 |
| 07KRP223 | 15 | | | S25017 |
| 07KRP224 | 70 | | | S25017 |
| 07KRP225 | 10 | | | S25017 |
| 07KRP226 | <5 | | | S25017 |
| 07KRP227 | 10 | | | S25017 |
| 07KRP228 | 40 | | | S25017 |
| 07KRP229 | <5 | | | S25017 |
| 07KRP230 | 240 | | | S25017 |

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INVOICE TO: Apex Geoscience - Edmonton

Sep 07/07

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200 - 9797 - 45th Avenue
Edmonton, AB T6E 5V8

REPORT No.
S25017

**SAMPLE(S) OF** 91 Rock/0 Pulp

INVOICE #:44541
P.O.:

D. Arsenault
Project: Bighorn

| | Au ppb | Au1 ppb | Au g/t | File Name |
|---|---|---|---|---|
| 07KRP231 | 1220 | 1250 | | S25017 |
| 07KRP232 | 15 | | | S25017 |
| 07KRP233 | 290 | | | S25017 |
| 07KRP234 | 320 | | | S25017 |
| 07KRP235 | 150 | | | S25017 |
| 07KRP236 | >3000 | | 5.11 | S25017 |
| 07KRP237 | >3000 | | 8.02 | S25017 |
| 07DAP101 | 45 | | | S25017 |
| 07DAP102 | 15 | | | S25017 |
| 07DAP103 | 160 | | | S25017 |
| 07DAP104 | 15 | 20 | | S25017 |
| 07DAP105 | 20 | | | S25017 |
| 07DAP106 | 5 | | | S25017 |
| 07DAP107 | 5 | | | S25017 |
| 07DAP108 | 15 | | | S25017 |
| 07DAP109 | 35 | | | S25017 |
| 07DAP110 | 15 | | | S25017 |
| 07DAP111 | 25 | | | S25017 |
| 07DAP112 | 25 | | | S25017 |
| 07DAP113 | 5 | | | S25017 |

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# CERTIFICATE OF ANALYSIS

**SAMPLE(S) FROM**
APEX Geoscience Ltd.
200 - 9797 - 45th Avenue
Edmonton, AB T6E 5V8

REPORT No.
S25017

**SAMPLE(S) OF**
91 Rock/0 Pulp

INVOICE #:44541
P.O.:

D. Arsenault
Project: Bighorn

| | Au ppb | Au1 ppb | Au g/t | File Name |
|---|---|---|---|---|
| 07DAP114 | 10 | 15 | | S25017 |
| 07DAP115 | 50 | | | S25017 |
| 07DAP116 | 540 | | | S25017 |
| 07DAP117 | >3000 | | 12.69 | S25017 |
| 07DAP118 | >3000 | | 32.30 | S25017 |
| 07DAP119 | 90 | | | S25017 |
| 07DAP120 | 100 | | | S25017 |
| 07DAP121 | 20 | | | S25017 |
| 07DAP122 | 20 | | | S25017 |
| 07DAP123 | 110 | | | S25017 |
| 07DAP124 | 65 | | | S25017 |
| GS-1P5B | 1360 | | | S25017 |
| GS-1P5B | 1420 | | | S25017 |
| GS-1P5B | 1400 | | | S25017 |
| GS-1P5B | 1430 | | | S25017 |
| GS-1P5B | 1430 | | | S25017 |
| G905-6 | | | 5.80 | S25017 |
| G905-6 | | | 5.73 | S25017 |

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| | | | |
|---|---|---|---|
| Company: | APEX Geoscience Ltd. | TSL Report: | S25017 |
| Geologist: | D. Arsenault | Date Received: | Aug 23, 2007 |
| Project: | Bighorn | Date Reported: | Oct 24, 2007 |
| Purchase Order: | | Invoice: | 44541 |

| Sample Type: | Number | Size Fraction | Sample Preparation |
|---|---|---|---|
| Rock | 91 | Reject – 95% at –10 mesh (1.70 mm) | Primary Crush, Rolls Crush<br>Riffle Split, Pulverize, Sand Clean |
| | | Pulp ~ 95% at –150 mesh (106 µm) | Pulp Size requested ~ 1000 g |
| Pulp | 0 | | None |

**ICP-MS Aqua Regia Digestion $HCl-HNO_3$**

*The Aqua Regia Leach digestion liberates most of the metals except those marked with an asterisk where the digestion will not be complete.*

| Element Name | Lower Detection Limit | Upper Detection Limit |
|---|---|---|
| Ag | 0.1 ppm | 100 ppm |
| Al * | 0.01 % | 10 % |
| As | 0.5 ppm | 10000 ppm |
| Au | 0.5 ppb | 100 ppm |
| B * | 1 ppm | 2000 ppm |
| Ba * | 1 ppm | 1000 ppm |
| Bi | 0.1 ppm | 2000 ppm |
| Ca * | 0.01% | 40 % |
| Cd | 0.1 ppm | 2000 ppm |
| Co | 0.1 ppm | 2000 ppm |
| Cr * | 1 ppm | 10000 ppm |
| Cu | 0.1 ppm | 10000 ppm |
| Fe * | 0.01% | 40 % |
| Ga * | 1 ppm | 1000 ppm |
| Hg | 0.01 ppm | 100 ppm |
| K * | 0.01% | 10 % |
| La * | 1 ppm | 10000 ppm |
| Mg * | 0.01% | 30 % |

| Element Name | Lower Detection Limit | Upper Detection Limit |
|---|---|---|
| Mn * | 1 ppm | 50000 ppm |
| Mo | 0.1 ppm | 2000 ppm |
| Na * | 0.001% | 10 % |
| Ni | 0.1 ppm | 10000 ppm |
| P * | 0.001% | 5 % |
| Pb | 0.1 ppm | 10000 ppm |
| S | 0.05 % | 10 % |
| Sb | 0.1 ppm | 2000 ppm |
| Sc | 0.1 ppm | 100 ppm |
| Se | 0.5 ppm | 1000 ppm |
| Sr * | 1 ppm | 10000 ppm |
| Te | 1 ppm | 2000 ppm |
| Th * | 0.1 ppm | 2000 ppm |
| Ti * | 0.001% | 10 % |
| Tl | 0.1 ppm | 1000 ppm |
| U * | 0.1 ppm | 2000 ppm |
| V * | 2 ppm | 10000 ppm |
| W * | 0.1 ppm | 100 ppm |
| Zn | 1 ppm | 10000 ppm |

# TSL LABORATORIES INC.

**APEX Geoscience Ltd.**
Attention: D. Besserer
Project: Bighorn
Sample: 91 Rock

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

Report No: S25017
Date: October 24, 2007

## MULTIELEMENT ICP-MS ANALYSIS

Aqua Regia Digestion

| Element | Ag | Al | As | Au | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | % |
| 07HCP001 | 0.1 | 1.01 | 6.8 | 20.5 | <20 | 155 | 0.2 | 0.53 | <0.1 | 7.0 | 343.0 | 98.0 | 2.38 | 4 | <0.01 | 0.24 | 22 | 0.49 | 368 | 1.4 | 0.138 | 13.2 | 0.042 |
| 07HCP002 | 3.1 | 0.80 | 17.9 | 8.4 | <20 | 78 | 0.5 | 0.40 | <0.1 | 13.1 | 676.0 | 6039.1 | 4.05 | 3 | <0.01 | 0.10 | 13 | 0.43 | 355 | >2000.0 | 0.069 | 20.8 | 0.028 |
| 07HCP003 | <0.1 | 1.26 | 0.6 | <0.5 | <20 | 238 | <0.1 | 0.99 | <0.1 | 6.3 | 304.0 | 43.0 | 2.60 | 5 | <0.01 | 0.23 | 23 | 0.66 | 566 | 6.5 | 0.123 | 9.5 | 0.060 |
| 07HCP004 | 0.2 | 1.70 | 1.7 | 5.5 | <20 | 22 | 0.4 | 0.83 | <0.1 | 15.3 | 448.0 | 158.1 | 6.53 | 6 | <0.01 | 0.34 | 9 | 0.78 | 379 | 6.2 | 0.193 | 30.9 | 0.047 |
| 07HCP005 | <0.1 | 1.25 | 0.8 | 1.9 | <20 | 34 | 0.2 | 0.36 | <0.1 | 9.6 | 327.0 | 23.6 | 5.54 | 8 | <0.01 | 0.10 | 2 | 1.16 | 358 | 3.4 | 0.130 | 8.5 | 0.118 |
| 07HCP006 | <0.1 | 1.11 | 1.3 | 13.7 | <20 | 85 | 0.3 | 0.05 | <0.1 | 9.5 | 597.0 | 45.6 | 4.89 | 4 | <0.01 | 0.69 | 2 | 0.35 | 234 | 3.6 | 0.014 | 13.3 | 0.018 |
| 07HCP007 | <0.1 | 0.84 | <0.5 | 1.7 | <20 | 72 | 0.2 | 0.70 | <0.1 | 4.0 | 267.0 | 15.0 | 1.40 | 3 | <0.01 | 0.32 | 20 | 0.37 | 360 | 1.7 | 0.036 | 9.0 | 0.021 |
| 07HCP008 | <0.1 | 0.68 | <0.5 | 137.8 | <20 | 61 | 3.0 | 0.29 | <0.1 | 4.7 | 247.0 | 18.0 | 2.81 | 4 | 0.03 | 0.24 | 15 | 0.36 | 272 | 3.9 | 0.080 | 5.8 | 0.035 |
| 07HCP009 | <0.1 | 0.23 | <0.5 | 9.2 | <20 | 10 | <0.1 | 16.14 | 0.3 | 1.2 | 12.0 | 5.8 | 0.43 | 1 | <0.01 | 0.02 | 2 | 5.14 | 538 | 6.8 | 0.003 | 4.4 | 0.005 |
| 07HCP010 | <0.1 | 0.18 | 1.5 | 3.7 | <20 | 7 | 0.1 | 1.03 | <0.1 | 19.8 | 451.0 | 69.6 | 2.72 | <1 | <0.01 | 0.01 | <1 | 0.20 | 180 | 1.6 | 0.011 | 52.0 | 0.003 |
| 07HCP011 | 4.9 | 2.79 | <0.5 | 980.7 | <20 | 205 | 0.1 | 11.86 | <0.1 | 11.8 | 493.0 | 4.3 | 3.59 | 10 | <0.01 | 2.55 | 6 | 4.15 | 3656 | 1.0 | 0.007 | 64.4 | 0.070 |
| 07HCP100 | 0.1 | 0.40 | 0.9 | 44.2 | <20 | 36 | 0.2 | 5.61 | 0.3 | 8.6 | 227.0 | 8.0 | 2.65 | 2 | <0.01 | 0.36 | 9 | 2.11 | 1481 | 3.4 | 0.017 | 64.0 | 0.089 |
| 07HCP101 | <0.1 | 4.03 | 1.8 | 92.4 | <20 | 332 | 0.2 | 8.98 | <0.1 | 21.5 | 455.0 | 5.0 | 5.22 | 12 | <0.01 | 2.99 | 7 | 4.74 | 2067 | 1.5 | 0.011 | 160.7 | 0.178 |
| 07HCP102 | 1.0 | 0.56 | 1.3 | 193.0 | <20 | 452 | 1.0 | 1.23 | <0.1 | 6.7 | 206.0 | 12.3 | 1.85 | 2 | 0.02 | 0.26 | 6 | 0.25 | 358 | 0.8 | 0.046 | 9.9 | 0.038 |
| 07HCP103 | 5.3 | 0.44 | 4.3 | 1452.1 | <20 | 299 | 1.9 | 1.84 | 0.2 | 1.8 | 236.0 | 1152.3 | 0.85 | 1 | 1.92 | 0.33 | 5 | 0.06 | 812 | 0.7 | 0.024 | 11.0 | 0.034 |
| 07HCP104 | 0.3 | 1.69 | 0.9 | 6.1 | <20 | 76 | 0.3 | 0.82 | 0.2 | 8.6 | 406.0 | 40.8 | 3.58 | 5 | <0.01 | 0.34 | 15 | 0.58 | 519 | 2.8 | 0.126 | 20.6 | 0.080 |
| 07HCP105 | 0.5 | 1.15 | 0.9 | 8.6 | <20 | 823 | 0.3 | 0.14 | <0.1 | 4.0 | 551.0 | 66.3 | 3.74 | 5 | <0.01 | 0.29 | 7 | 0.80 | 574 | 2.7 | 0.030 | 21.1 | 0.033 |
| 07HCP108 | 0.4 | 2.49 | 0.7 | 14.3 | <20 | 791 | 0.2 | 0.28 | 0.1 | 7.0 | 567.0 | 55.0 | 4.16 | 8 | <0.01 | 1.22 | 7 | 1.83 | 893 | 2.3 | 0.056 | 36.2 | 0.061 |
| 07HCP108 Re | 0.4 | 2.49 | 0.8 | 11.6 | <20 | 811 | 0.2 | 0.29 | <0.1 | 6.8 | 589.0 | 54.8 | 4.16 | 8 | <0.01 | 1.23 | 7 | 1.83 | 922 | 2.2 | 0.056 | 35.4 | 0.063 |
| 07HCP107 | 0.3 | 0.81 | 1.2 | 3.5 | <20 | 1420 | 0.1 | 0.05 | <0.1 | 2.3 | 695.0 | 21.7 | 2.23 | 4 | <0.01 | 0.27 | 6 | 0.72 | 274 | 1.9 | 0.033 | 18.5 | 0.014 |
| 07HCP108 | 0.2 | 0.64 | 1.9 | 4.3 | <20 | 432 | 0.2 | 0.18 | 0.1 | 6.7 | 986.0 | 57.2 | 2.71 | 3 | <0.01 | 0.13 | 4 | 0.60 | 205 | 9.3 | 0.053 | 40.3 | 0.041 |
| 07HCP109 | <0.1 | 0.16 | 1.4 | 94.6 | <20 | 49 | <0.1 | 0.12 | <0.1 | 2.2 | 627.0 | 21.0 | 1.27 | <1 | <0.01 | 0.04 | 3 | 0.06 | 110 | 1.9 | 0.037 | 15.9 | 0.009 |
| 07HCP110 | 0.9 | 0.88 | 2.7 | 5730.7 | <20 | 145 | 1.4 | 0.58 | 0.2 | 16.1 | 746.0 | 116.0 | 3.88 | 3 | <0.01 | 0.11 | 5 | 0.41 | 452 | 62.5 | 0.060 | 42.7 | 0.067 |
| 07HCP111 | 0.3 | 3.77 | 1.1 | 13.5 | <20 | 130 | 0.2 | 1.68 | 0.1 | 25.4 | 476.0 | 151.7 | 5.04 | 10 | <0.01 | 0.81 | 10 | 1.01 | 418 | 1.6 | 0.224 | 50.8 | 0.096 |
| 07HCP112 | 0.1 | 2.02 | 6.0 | 6.2 | <20 | 281 | <0.1 | 0.19 | 0.6 | 6.7 | 224.0 | 32.9 | 3.81 | 8 | <0.01 | 1.22 | 11 | 1.17 | 593 | 0.7 | 0.054 | 8.1 | 0.054 |
| 07HCP113 | 0.8 | 0.09 | <0.5 | 886.9 | <20 | 97 | 3.3 | 0.02 | <0.1 | 0.7 | 185.0 | 4.7 | 1.13 | <1 | <0.01 | 0.03 | 15 | <0.01 | 31 | 4.1 | 0.061 | 4.3 | 0.004 |
| 07HCP114 | <0.1 | 0.14 | <0.5 | 56.1 | <20 | 91 | 0.8 | 0.02 | <0.1 | 1.0 | 132.0 | 5.7 | 1.15 | <1 | <0.01 | 0.07 | 16 | 0.01 | 30 | 0.5 | 0.097 | 3.3 | 0.008 |
| 07HCP115 | 2.2 | 0.13 | 0.6 | 6058.7 | <20 | 194 | 5.8 | 0.01 | <0.1 | 0.9 | 269.0 | 5.6 | 1.20 | <1 | 0.04 | 0.12 | 17 | <0.01 | 39 | 21.5 | 0.066 | 6.0 | 0.003 |
| 07HCP116 | 1.1 | 0.14 | <0.5 | 5220.5 | <20 | 312 | 2.6 | 0.02 | <0.1 | 1.4 | 301.0 | 9.0 | 1.41 | <1 | 0.05 | 0.09 | 21 | 0.01 | 51 | 6.2 | 0.080 | 6.9 | 0.003 |
| 07HCP117 | 0.2 | 0.67 | 12.4 | 254.8 | <20 | 136 | 0.9 | 0.11 | 1.0 | 4.3 | 76.0 | 42.6 | 3.59 | 4 | <0.01 | 0.40 | 20 | 0.35 | 298 | 6.1 | 0.034 | 3.2 | 0.051 |
| 07HCP118 | 11.7 | 0.28 | 5.7 | 20692.3 | <20 | 70 | 6.7 | 0.10 | 5.1 | 3.5 | 327.0 | 100.2 | 2.37 | <1 | 2.05 | 0.22 | 13 | 0.03 | 55 | 226.6 | 0.027 | 9.1 | 0.011 |
| 07HCP119 | 0.3 | 0.52 | 0.9 | 567.1 | <20 | 73 | 0.6 | 0.07 | 0.7 | 2.5 | 92.0 | 25.3 | 2.19 | 2 | <0.01 | 0.30 | 22 | 0.21 | 437 | 19.3 | 0.058 | 3.3 | 0.028 |
| 07THP101 | 0.2 | 0.22 | 0.5 | 36.2 | <20 | 253 | 0.8 | 0.02 | <0.1 | 0.6 | 133.0 | 22.0 | 0.98 | <1 | <0.01 | 0.15 | 24 | 0.01 | 56 | 4.7 | 0.063 | 3.0 | 0.007 |
| 07THP102 | <0.1 | 0.26 | <0.5 | 13.3 | <20 | 80 | 0.2 | 0.14 | <0.1 | 0.9 | 147.0 | 6.3 | 1.31 | 2 | <0.01 | 0.17 | 33 | 0.04 | 145 | 3.7 | 0.068 | 3.3 | 0.008 |
| 07THP103 | <0.1 | 0.20 | <0.5 | 101.4 | <20 | 40 | 0.3 | 0.02 | <0.1 | 0.9 | 123.0 | 23.4 | 0.90 | <1 | <0.01 | 0.13 | 8 | 0.01 | 113 | 2.4 | 0.059 | 3.1 | 0.007 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____

Mark Acres - Quality Assurance

# TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

**APEX Geoscience Ltd.**
Attention: D. Besserer
Project: Bighorn
Sample: 91 Rock

Report No: S25017
Date: October 24, 2007

## MULTIELEMENT ICP-MS ANALYSIS
Aqua Regia Digestion

| Element | Ag | Al | As | Au | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | % |
| 07THP104 | <0.1 | 0.26 | 1.3 | 3.2 | <20 | 1352 | <0.1 | 2.16 | <0.1 | 5.2 | 151.0 | 5.3 | 1.21 | <1 | <0.01 | 0.20 | 4 | 0.19 | 486 | 1.9 | 0.037 | 7.0 | 0.041 |
| 07THP105 | <0.1 | 0.26 | 9.2 | 5.9 | <20 | 187 | <0.1 | 3.23 | 0.1 | 5.6 | 124.0 | 4.5 | 2.62 | <1 | <0.01 | 0.18 | 3 | 0.61 | 602 | 0.4 | 0.041 | 8.5 | 0.028 |
| 07THP106 | 0.2 | 2.89 | 2.2 | 2.6 | <20 | 901 | 0.2 | 4.65 | <0.1 | 33.8 | 191.0 | 107.7 | 4.66 | 7 | 0.04 | 0.24 | 17 | 4.07 | 862 | 0.9 | 0.135 | 129.7 | 0.078 |
| 07THP107 | 0.2 | 2.17 | 1.1 | 9.5 | <20 | 54 | 0.1 | 1.97 | 0.4 | 23.5 | 82.0 | 53.9 | 3.43 | 7 | <0.01 | 0.11 | 4 | 0.46 | 426 | 2.0 | 0.052 | 20.0 | 0.079 |
| 07THP108 | <0.1 | 1.56 | <0.5 | 4.9 | <20 | 90 | <0.1 | 0.65 | <0.1 | 10.2 | 233.0 | 17.4 | 1.65 | 4 | <0.01 | 0.39 | 9 | 0.77 | 197 | 0.6 | 0.079 | 32.5 | 0.032 |
| 07THP109 | 0.4 | 1.25 | <0.5 | 3.0 | <20 | 1364 | 0.2 | 0.32 | <0.1 | 3.8 | 228.0 | 45.9 | 2.27 | 5 | <0.01 | 0.31 | 5 | 1.03 | 227 | 1.8 | 0.088 | 14.9 | 0.077 |
| 07THP110 | <0.1 | 0.09 | <0.5 | 2.1 | <20 | 8 | <0.1 | 0.02 | <0.1 | 1.1 | 294.0 | 7.0 | 0.51 | <1 | <0.01 | <0.01 | <1 | 0.09 | 67 | 0.7 | 0.001 | 7.6 | <0.001 |
| 07THP111 | 0.5 | 1.16 | <0.5 | 1.9 | <20 | 134 | 0.3 | 0.40 | 0.1 | 1.4 | 273.0 | 17.2 | 1.77 | 5 | <0.01 | 0.58 | 7 | 0.90 | 400 | 3.0 | 0.088 | 9.5 | 0.158 |
| 07THP112 | <0.1 | 2.62 | 36.0 | 0.6 | <20 | 471 | <0.1 | 5.04 | 0.2 | 30.9 | 106.0 | 17.1 | 5.20 | 5 | <0.01 | 0.20 | 9 | 3.83 | 1252 | 0.6 | 0.004 | 58.3 | 0.063 |
| 07THP113 | <0.1 | 0.58 | 11.5 | <0.5 | <20 | 148 | <0.1 | 2.97 | <0.1 | 8.9 | 318.0 | 25.0 | 1.83 | 1 | <0.01 | 0.10 | 1 | 1.62 | 750 | 0.7 | 0.002 | 22.4 | 0.007 |
| 07THP114 | 0.4 | 0.96 | 24.2 | 2.0 | <20 | 438 | 0.2 | 0.05 | <0.1 | 5.4 | 233.0 | 16.6 | 2.62 | 5 | <0.01 | 0.06 | 4 | 1.05 | 241 | 3.4 | 0.041 | 21.1 | 0.017 |
| 07THP115 | <0.1 | 2.35 | 0.8 | 4.6 | <20 | 185 | 0.1 | 1.27 | 0.2 | 24.1 | 301.0 | 10.8 | 2.58 | 5 | <0.01 | 0.13 | 15 | 2.92 | 430 | 0.2 | 0.046 | 186.2 | 0.162 |
| 07THP116 | 0.4 | 1.57 | 3.1 | 171.3 | <20 | 143 | 0.3 | 1.48 | 0.2 | 20.8 | 106.0 | 107.5 | 5.00 | 7 | <0.01 | 0.66 | 12 | 1.44 | 912 | 3.8 | 0.054 | 37.3 | 0.088 |
| 07THP117 | 0.2 | 2.27 | <0.5 | 7.3 | <20 | 194 | 0.2 | 0.31 | <0.1 | 12.8 | 185.0 | 174.1 | 5.01 | 8 | <0.01 | 1.32 | 6 | 1.28 | 631 | 1.6 | 0.089 | 14.5 | 0.054 |
| 07THP118 | 0.1 | 0.25 | 1.4 | 4.1 | <20 | 74 | 0.3 | 2.64 | 0.5 | 3.2 | 443.0 | 35.6 | 1.69 | <1 | <0.01 | 0.04 | 2 | 0.25 | 325 | 1.6 | 0.005 | 14.9 | 0.022 |
| 07THP118 Re | <0.1 | 0.24 | 1.3 | 3.4 | <20 | 72 | 0.4 | 2.77 | 0.4 | 3.2 | 484.0 | 36.7 | 1.66 | 1 | <0.01 | 0.04 | 2 | 0.25 | 321 | 1.5 | 0.005 | 15.3 | 0.022 |
| 07THP119 | 0.4 | 0.32 | 1.7 | 289.2 | <20 | 40 | 0.5 | 0.33 | <0.1 | 4.5 | 135.0 | 6.3 | 2.00 | 2 | <0.01 | 0.13 | 17 | 0.18 | 588 | 4.8 | 0.056 | 6.6 | 0.022 |
| 07KRP221 | <0.1 | 0.38 | 9.0 | 2.8 | <20 | 341 | <0.1 | 2.02 | <0.1 | 7.1 | 158.0 | 5.7 | 2.66 | 1 | <0.01 | 0.27 | 7 | 0.53 | 542 | 0.5 | 0.043 | 10.6 | 0.048 |
| 07KRP222 | 0.2 | 1.87 | 13.6 | 10.3 | <20 | 31 | 1.4 | 0.15 | 0.2 | 238.0 | 106.0 | 347.9 | 14.42 | 7 | 0.01 | 0.28 | 1 | 0.52 | 206 | 3.6 | 0.016 | 10.3 | 0.027 |
| 07KRP223 | 0.3 | 0.52 | 0.6 | 14.2 | <20 | 104 | 0.2 | 0.22 | 0.1 | 18.8 | 116.0 | 283.3 | 2.58 | 2 | <0.01 | 0.21 | 4 | 0.10 | 53 | 7.6 | 0.037 | 8.6 | 0.017 |
| 07KRP224 | 0.9 | 1.49 | 3.0 | 8.6 | <20 | 59 | 0.6 | 0.15 | <0.1 | 72.0 | 92.0 | 1669.5 | 10.53 | 5 | <0.01 | 0.25 | 2 | 0.29 | 162 | 18.2 | 0.021 | 20.5 | 0.028 |
| 07KRP225 | 0.4 | 1.82 | 1.8 | 5.0 | <20 | 50 | 0.5 | 0.08 | <0.1 | 123.0 | 162.0 | 745.5 | 11.80 | 7 | <0.01 | 0.31 | 1 | 0.42 | 131 | 4.7 | 0.027 | 24.7 | 0.024 |
| 07KRP226 | 0.1 | 0.05 | 1.0 | 1.7 | <20 | 17 | <0.1 | 0.11 | <0.1 | 2.6 | 471.0 | 15.9 | 1.12 | <1 | <0.01 | <0.01 | 1 | 0.03 | 81 | 2.1 | 0.013 | 15.8 | 0.005 |
| 07KRP227 | 0.2 | 0.32 | 29.2 | 7.3 | <20 | 96 | 0.2 | 0.11 | <0.1 | 3.9 | 441.0 | 76.1 | 1.39 | 1 | <0.01 | 0.09 | 2 | 0.22 | 178 | 2.8 | 0.008 | 23.7 | 0.027 |
| 07KRP228 | 0.5 | 1.42 | 2.2 | 52.5 | <20 | 351 | 0.2 | 0.66 | 0.1 | 5.3 | 412.0 | 48.1 | 2.12 | 5 | <0.01 | 0.20 | 4 | 0.74 | 258 | 2.3 | 0.074 | 17.9 | 0.097 |
| 07KRP229 | 0.3 | 3.95 | <0.5 | 2.5 | <20 | 392 | 0.2 | 1.75 | 0.5 | 17.7 | 202.0 | 64.2 | 4.29 | 11 | <0.01 | 0.85 | 11 | 1.28 | 473 | 5.3 | 0.226 | 50.6 | 0.080 |
| 07KRP230 | 3.0 | 0.46 | 2.3 | 181.3 | <20 | 348 | 2.4 | 0.03 | <0.1 | 4.1 | 204.0 | 8.5 | 0.90 | 1 | 0.01 | 0.18 | 24 | 0.02 | 51 | 9.8 | 0.017 | 5.9 | 0.003 |
| 07KRP231 | 0.3 | 0.24 | 0.7 | 920.7 | <20 | 998 | 1.5 | 0.03 | <0.1 | 1.4 | 484.0 | 15.5 | 1.36 | <1 | 0.04 | 0.28 | 13 | 0.02 | 61 | 1.7 | 0.055 | 11.5 | 0.003 |
| 07KRP232 | <0.1 | 0.24 | <0.5 | 3.8 | <20 | 163 | <0.1 | 0.03 | <0.1 | 1.8 | 271.0 | 7.2 | 0.72 | <1 | <0.01 | 0.16 | 15 | 0.02 | 96 | 3.6 | 0.062 | 6.3 | 0.002 |
| 07KRP233 | <0.1 | 0.68 | 8.2 | 534.2 | <20 | 94 | 0.6 | 0.03 | <0.1 | 1.2 | 359.0 | 11.3 | 1.43 | 2 | 0.01 | 0.14 | 22 | 0.03 | 60 | 38.6 | 0.013 | 8.5 | 0.907 |
| 07KRP234 | <0.1 | 0.26 | <0.5 | 164.4 | <20 | 155 | 0.4 | 0.03 | <0.1 | 1.4 | 479.0 | 12.3 | 1.67 | 2 | <0.01 | 0.19 | 7 | 0.08 | 76 | 4.0 | 0.100 | 10.7 | 0.004 |
| 07KRP235 | 1.6 | 0.36 | 5.2 | 147.8 | <20 | 2295 | 2.3 | 0.02 | <0.1 | 1.4 | 401.0 | 7.1 | 1.48 | 1 | 0.02 | 0.13 | 24 | 0.02 | 68 | 1.9 | 0.018 | 8.6 | 0.005 |
| 07KRP236 | 3.3 | 0.15 | 0.6 | 16169.5 | <20 | 162 | 8.9 | 0.02 | <0.1 | 1.4 | 440.0 | 6.1 | 1.62 | <1 | 0.05 | 0.13 | 12 | <0.01 | 55 | 13.0 | 0.091 | 9.9 | 0.002 |
| 07KRP237 | 5.3 | 0.14 | 0.8 | 7619.8 | <20 | 121 | 3.9 | 0.02 | <0.1 | 1.9 | 439.0 | 11.3 | 1.70 | <1 | 0.08 | 0.09 | 9 | <0.01 | 56 | 11.7 | 0.088 | 10.2 | 0.001 |
| 07DAP101 | 0.4 | 0.86 | 16.8 | 30.8 | <20 | 19 | 0.1 | 1.28 | 0.5 | 42.4 | 366.0 | 581.2 | 4.85 | 3 | <0.01 | 0.10 | 6 | 0.57 | 360 | 2.8 | 0.066 | 53.5 | 0.136 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____
Mark Acres - Quality Assurance

# TSL LABORATORIES INC.

**APEX Geoscience Ltd.**
Attention: D. Besserer
Project: Bighorn
Sample: 91 Rock

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

Report No: S25017
Date: October 24, 2007

## MULTIELEMENT ICP-MS ANALYSIS

Aqua Regia Digestion

| Element | Ag | Al | As | Au | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | % |
| 07DAP102 | 0.4 | 1.28 | 5.0 | 7.8 | <20 | 68 | 0.5 | 0.24 | <0.1 | 52.3 | 145.0 | 572.6 | 6.95 | 4 | <0.01 | 0.27 | 2 | 0.27 | 143 | 6.7 | 0.017 | 12.1 | 0.050 |
| 07DAP103 | 1.0 | 0.13 | 0.9 | 284.8 | <20 | 295 | 0.2 | 0.09 | <0.1 | 3.4 | 1219.0 | 27.9 | 1.79 | <1 | 0.02 | 0.05 | 1 | 0.09 | 150 | 3.1 | 0.007 | 27.0 | 0.017 |
| 07DAP104 | 0.3 | 1.34 | 0.9 | 7.9 | <20 | 385 | <0.1 | 0.55 | <0.1 | 7.3 | 658.0 | 56.9 | 2.57 | 5 | 0.03 | 0.51 | 4 | 0.73 | 255 | 1.8 | 0.087 | 33.7 | 0.074 |
| 07DAP105 | 0.2 | 0.70 | 3.0 | 7.7 | <20 | 236 | 0.2 | 0.11 | <0.1 | 4.4 | 630.0 | 61.1 | 2.53 | 3 | <0.01 | 0.08 | 3 | 0.54 | 257 | 2.5 | 0.045 | 17.3 | 0.029 |
| 07DAP106 | 0.3 | 0.91 | 7.6 | 3.1 | <20 | 607 | 0.3 | 0.13 | <0.1 | 3.3 | 400.0 | 26.7 | 2.27 | 3 | <0.01 | 0.18 | 5 | 0.68 | 218 | 2.2 | 0.040 | 16.3 | 0.039 |
| 07DAP107 | 0.1 | 0.88 | 0.9 | 0.9 | <20 | 124 | 0.1 | 0.44 | <0.1 | 5.6 | 104.0 | 270.4 | 2.17 | 4 | <0.01 | 0.19 | 15 | 0.61 | 315 | 7.8 | 0.055 | 5.0 | 0.049 |
| 07DAP108 | 1.2 | 1.37 | 1.4 | 13.6 | <20 | 193 | 0.1 | 0.89 | 0.3 | 9.3 | 590.0 | 1697.8 | 2.99 | 5 | <0.01 | 0.24 | 20 | 0.71 | 476 | 2.4 | 0.177 | 17.7 | 0.045 |
| 07DAP109 | 0.6 | 0.31 | 2.2 | 21.1 | <20 | 14 | 1.5 | 0.51 | <0.1 | 33.6 | 228.0 | 51.1 | 22.37 | 2 | <0.01 | 0.06 | 2 | 0.18 | 169 | 11.4 | 0.017 | 37.8 | 0.009 |
| 07DAP110 | 0.3 | 2.41 | 1.7 | 10.0 | <20 | 97 | 0.2 | 0.72 | 0.1 | 25.9 | 218.0 | 343.1 | 7.23 | 8 | <0.01 | 0.22 | 9 | 1.42 | 402 | 6.0 | 0.105 | 40.1 | 0.089 |
| 07DAP111 | 0.5 | 0.06 | 17.0 | 8.4 | <20 | 138 | <0.1 | 0.03 | <0.1 | 56.5 | 422.0 | 176.5 | 3.78 | <1 | <0.01 | <0.01 | 2 | 0.05 | 68 | 2.6 | 0.001 | 29.7 | 0.007 |
| 07DAP112 | 0.8 | 0.90 | 1.5 | 15.2 | <20 | 41 | <0.1 | 1.02 | 0.1 | 10.5 | 135.0 | 446.9 | 2.57 | 3 | <0.01 | 0.09 | <1 | 0.57 | 371 | 1.0 | 0.078 | 10.2 | 0.023 |
| 07DAP113 | <0.1 | 0.32 | <0.5 | 2.8 | <20 | 22 | <0.1 | 0.32 | <0.1 | 2.5 | 383.0 | 12.7 | 0.96 | 1 | <0.01 | 0.12 | 2 | 0.19 | 233 | 0.9 | 0.010 | 8.8 | 0.025 |
| 07DAP114 | 0.7 | 0.03 | 10.1 | 9.1 | <20 | 51 | 1.5 | 0.02 | <0.1 | 2.4 | 445.0 | 14.4 | 1.34 | <1 | <0.01 | 0.01 | <1 | 0.01 | 64 | 6.1 | 0.004 | 10.2 | 0.005 |
| 07DAP115 | <0.1 | 0.20 | 0.5 | 54.6 | <20 | 31 | 0.4 | 0.03 | <0.1 | 2.3 | 279.0 | 9.8 | 1.46 | <1 | <0.01 | 0.03 | 9 | 0.06 | 245 | 2.3 | 0.060 | 6.8 | 0.008 |
| 07DAP116 | 0.2 | 0.75 | 0.6 | 391.9 | <20 | 131 | 0.9 | 0.10 | <0.1 | 4.8 | 138.0 | 16.8 | 2.72 | 4 | 0.14 | 0.31 | 11 | 0.26 | 226 | 68.9 | 0.038 | 4.1 | 0.039 |
| 07DAP117 | 7.7 | 0.45 | 54.9 | 13271.1 | <20 | 83 | 1.8 | 0.06 | 0.4 | 9.8 | 198.0 | 27.1 | 2.98 | 2 | 0.10 | 0.08 | 11 | 0.05 | 240 | 35.9 | 0.002 | 21.4 | 0.018 |
| 07DAP118 | 8.2 | 0.04 | 65.5 | 26910.2 | <20 | 47 | 1.3 | 0.01 | 0.2 | 12.5 | 319.0 | 16.4 | 2.49 | <1 | 0.12 | 0.02 | <1 | 0.01 | 39 | 39.7 | 0.001 | 23.3 | <0.001 |
| 07DAP119 | 0.3 | 0.20 | 1.4 | 47.1 | <20 | 24 | 0.4 | 0.85 | 0.3 | 49.4 | 553.0 | 215.6 | 4.05 | <1 | <0.01 | 0.03 | <1 | 0.11 | 225 | 2.2 | 0.072 | 49.2 | 0.014 |
| 07DAP120 | <0.1 | 0.62 | 1.3 | 34.3 | <20 | 41 | 0.2 | 0.70 | <0.1 | 50.6 | 192.0 | 22.1 | 5.82 | 2 | <0.01 | 0.08 | 2 | 0.32 | 252 | 5.8 | 0.119 | 16.4 | 0.032 |
| 07DAP121 | <0.1 | 0.23 | <0.5 | 17.2 | <20 | 302 | <0.1 | 5.77 | 0.3 | 12.4 | 152.0 | 3.8 | 2.46 | <1 | <0.01 | 0.12 | 1 | 2.42 | 730 | 0.5 | 0.037 | 73.3 | 0.036 |
| 07DAP122 | 0.3 | 1.50 | 0.7 | 38.8 | <20 | 52 | <0.1 | 1.09 | <0.1 | 8.6 | 139.0 | 78.6 | 2.73 | 6 | <0.01 | 0.10 | 11 | 1.29 | 692 | 0.4 | 0.092 | 6.6 | 0.089 |
| 07DAP123 | 0.1 | 0.54 | 0.7 | 466.5 | <20 | 37 | 0.2 | 1.37 | <0.1 | 2.6 | 244.0 | 9.5 | 1.67 | 3 | <0.01 | 0.31 | 13 | 0.59 | 539 | 4.1 | 0.050 | 14.1 | 0.006 |
| 07DAP124 | 0.2 | 0.19 | 0.8 | 95.8 | <20 | 21 | 0.4 | 1.94 | 0.1 | 5.5 | 221.0 | 4.4 | 1.37 | <1 | <0.01 | 0.10 | 16 | 0.78 | 691 | 2.5 | 0.086 | 11.0 | 0.003 |
| STD DS7 | 0.8 | 1.01 | 45.9 | 71.9 | 32 | 385 | 4.8 | 0.95 | 6.2 | 9.1 | 203.0 | 110.0 | 2.42 | 5 | 0.21 | 0.42 | 12 | 1.05 | 593 | 20.8 | 0.089 | 58.1 | 0.071 |
| STD DS7 | 0.9 | 1.03 | 49.7 | 58.2 | 36 | 381 | 4.4 | 0.96 | 6.5 | 9.8 | 205.0 | 122.3 | 2.47 | 5 | 0.18 | 0.43 | 12 | 1.06 | 637 | 21.2 | 0.093 | 57.8 | 0.075 |
| BLK | <0.1 | <0.01 | <0.5 | <0.5 | <20 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 | <0.001 | <0.1 | <0.001 |
| STD DS7 | 0.8 | 1.01 | 50.0 | 50.1 | 39 | 388 | 4.7 | 0.93 | 6.3 | 9.4 | 201.0 | 111.9 | 2.35 | 4 | 0.20 | 0.46 | 13 | 1.01 | 608 | 20.2 | 0.096 | 52.6 | 0.079 |
| STD DS7 | 0.8 | 1.01 | 51.3 | 47.9 | 41 | 401 | 4.9 | 0.94 | 6.3 | 9.4 | 203.0 | 102.5 | 2.45 | 4 | 0.20 | 0.47 | 13 | 1.05 | 622 | 21.9 | 0.092 | 53.5 | 0.082 |
| BLK | <0.1 | <0.01 | <0.5 | 2.8 | <20 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 | <0.001 | <0.1 | <0.001 |
| STD DS7 | 0.9 | 1.03 | 50.4 | 55.9 | 28 | 385 | 4.6 | 0.95 | 6.2 | 9.2 | 194.0 | 102.0 | 2.38 | 5 | 0.22 | 0.45 | 12 | 1.07 | 593 | 19.6 | 0.098 | 54.2 | 0.077 |
| BLK | <0.1 | <0.01 | <0.5 | <0.5 | <20 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 | <0.001 | <0.1 | <0.001 |
| STD DS7 | 0.9 | 1.09 | 55.1 | 55.4 | 40 | 397 | 4.7 | 1.01 | 6.8 | 9.9 | 214.0 | 106.3 | 2.51 | 5 | 0.21 | 0.51 | 13 | 1.16 | 645 | 20.7 | 0.105 | 59.5 | 0.084 |
| STD DS7 | 0.9 | 1.11 | 49.1 | 102.6 | 36 | 411 | 4.7 | 1.02 | 6.8 | 10.6 | 220.0 | 116.9 | 2.61 | 5 | 0.21 | 0.46 | 14 | 1.14 | 666 | 25.6 | 0.100 | 65.4 | 0.085 |
| BLK | <0.1 | <0.01 | <0.5 | <0.5 | <20 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 | <0.001 | <0.1 | <0.001 |
| STD DS7 | 0.9 | 1.14 | 53.5 | 60.0 | 39 | 422 | 4.8 | 1.06 | 6.9 | 10.6 | 227.0 | 134.6 | 2.66 | 5 | 0.22 | 0.47 | 14 | 1.16 | 679 | 22.8 | 0.104 | 64.1 | 0.085 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____

Mark Acres - Quality Assurance

# TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

**APEX Geoscience Ltd.**
Attention: D. Besserer
Project: Bighorn
Sample: 91 Rock

Report No: S25017
Date: October 24, 2007

## MULTIELEMENT ICP-MS ANALYSIS
Aqua Regia Digestion

| Element | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| 07HCP001 | 4.9 | 0.17 | 0.1 | 1.5 | <0.5 | 48 | <1 | 14.2 | 0.137 | <0.1 | 4.2 | 45 | 1.5 | 36 |
| 07HCP002 | 3.9 | 1.99 | 0.5 | 1.4 | 6.7 | 27 | <1 | 8.5 | 0.095 | <0.1 | 4.5 | 31 | 4.6 | 53 |
| 07HCP003 | 3.7 | <0.05 | 0.1 | 2.6 | <0.5 | 67 | <1 | 9.3 | 0.134 | <0.1 | 2.8 | 37 | <0.1 | 65 |
| 07HCP004 | 2.6 | 2.91 | 0.2 | 4.8 | 2.5 | 48 | <1 | 5.0 | 0.190 | <0.1 | 2.2 | 56 | 26.8 | 23 |
| 07HCP005 | 1.4 | 1.69 | <0.1 | 9.7 | 4.5 | 13 | <1 | 2.8 | 0.144 | <0.1 | 0.4 | 80 | 0.2 | 33 |
| 07HCP006 | 1.4 | 1.05 | <0.1 | 1.0 | 1.5 | 9 | <1 | 4.8 | 0.064 | 0.1 | 0.4 | 3 | 0.5 | 19 |
| 07HCP007 | 2.8 | 0.06 | <0.1 | 1.1 | <0.5 | 20 | <1 | 12.7 | 0.026 | <0.1 | 1.6 | 14 | 0.2 | 27 |
| 07HCP008 | 1.2 | 1.44 | 0.1 | 1.9 | <0.5 | 10 | <1 | 6.4 | 0.024 | <0.1 | 1.2 | 2 | 0.2 | 21 |
| 07HCP009 | 7.9 | 0.11 | <0.1 | 0.5 | <0.5 | 198 | <1 | 0.2 | 0.005 | <0.1 | 1.4 | 6 | 0.1 | 14 |
| 07HCP010 | 3.2 | 1.24 | 0.2 | 1.4 | 1.6 | 11 | <1 | 0.2 | 0.011 | <0.1 | <0.1 | 29 | 0.2 | 17 |
| 07HCP011 | 2.8 | <0.05 | <0.1 | 12.2 | <0.5 | 294 | 3 | 3.6 | 0.247 | 1.2 | 20.3 | 71 | 21.1 | 57 |
| 07HCP100 | 5.6 | 0.43 | 0.4 | 9.8 | <0.5 | 106 | <1 | 2.4 | 0.005 | 0.1 | 0.9 | 16 | 0.3 | 55 |
| 07HCP101 | 2.1 | 0.98 | 0.1 | 17.9 | <0.5 | 228 | <1 | 3.3 | 0.252 | 1.1 | 0.6 | 190 | 2.2 | 87 |
| 07HCP102 | 11.6 | 0.50 | 0.5 | 1.0 | <0.5 | 55 | <1 | 1.0 | 0.002 | <0.1 | 0.3 | 7 | <0.1 | 22 |
| 07HCP103 | 4.9 | <0.05 | 17.1 | 0.7 | <0.5 | 52 | 1 | 0.9 | 0.001 | <0.1 | 0.4 | <2 | <0.1 | 23 |
| 07HCP104 | 6.6 | 0.66 | 0.2 | 4.7 | 1.3 | 27 | <1 | 5.9 | 0.111 | 0.1 | 1.6 | 49 | 0.2 | 48 |
| 07HCP105 | 18.6 | 0.24 | 0.2 | 4.9 | 2.8 | 12 | <1 | 3.8 | 0.089 | <0.1 | 0.7 | 107 | 0.2 | 42 |
| 07HCP106 | 10.7 | 0.32 | 0.1 | 10.7 | 1.9 | 19 | <1 | 2.8 | 0.201 | 0.2 | 0.6 | 129 | 0.3 | 67 |
| 07HCP106 Rı | 10.7 | 0.32 | 0.1 | 10.9 | 1.8 | 20 | <1 | 2.9 | 0.206 | 0.2 | 0.6 | 129 | 0.4 | 66 |
| 07HCP107 | 5.9 | 0.09 | 0.1 | 6.5 | 2.5 | 13 | <1 | 1.1 | 0.040 | <0.1 | 0.5 | 106 | 0.1 | 30 |
| 07HCP108 | 5.5 | 0.54 | 0.3 | 5.3 | 2.0 | 11 | <1 | 1.3 | 0.043 | <0.1 | 0.5 | 93 | 0.2 | 28 |
| 07HCP109 | 1.1 | 0.15 | 0.2 | 0.5 | <0.5 | 7 | <1 | 0.8 | 0.019 | <0.1 | 0.3 | 7 | 0.1 | 5 |
| 07HCP110 | 7.3 | 1.36 | 0.5 | 4.5 | 4.8 | 32 | <1 | 1.2 | 0.074 | <0.1 | 0.9 | 79 | 1.7 | 39 |
| 07HCP111 | 5.5 | 1.21 | <0.1 | 13.5 | 1.8 | 96 | <1 | 3.4 | 0.235 | 0.2 | 0.9 | 185 | 0.4 | 71 |
| 07HCP112 | 6.4 | 0.45 | <0.1 | 9.8 | 1.5 | 10 | <1 | 7.2 | 0.215 | 0.6 | 2.0 | 46 | 0.5 | 110 |
| 07HCP113 | 1.2 | <0.05 | 0.1 | 0.2 | <0.5 | 3 | 2 | 4.8 | 0.001 | <0.1 | 0.2 | <2 | 0.1 | 2 |
| 07HCP114 | 1.5 | 0.12 | 0.1 | 0.3 | <0.5 | 6 | <1 | 11.3 | 0.001 | <0.1 | 0.4 | <2 | 0.1 | 6 |
| 07HCP115 | 3.3 | 0.19 | 0.1 | 0.2 | <0.5 | 5 | 1 | 2.6 | 0.001 | <0.1 | 0.2 | <2 | 0.2 | 1 |
| 07HCP116 | 2.0 | 0.31 | 0.3 | 0.3 | <0.5 | 9 | 1 | 5.7 | 0.001 | <0.1 | 0.2 | <2 | 0.2 | 6 |
| 07HCP117 | 159.4 | 0.52 | 0.3 | 1.8 | <0.5 | 8 | <1 | 9.9 | 0.042 | 0.2 | 1.1 | 18 | 3.5 | 178 |
| 07HCP118 | 4196.6 | 2.04 | 4.1 | 0.4 | 4.2 | 7 | 1 | 4.3 | 0.002 | <0.1 | 0.4 | <2 | 0.7 | 400 |
| 07HCP119 | 31.9 | 0.60 | 0.2 | 1.7 | <0.5 | 4 | <1 | 8.7 | 0.024 | <0.1 | 0.8 | 8 | 1.7 | 100 |
| 07THP101 | 5.4 | 0.08 | <0.1 | 0.6 | <0.5 | 10 | <1 | 12.2 | 0.001 | <0.1 | 0.9 | <2 | 0.1 | 8 |
| 07THP102 | 7.4 | <0.05 | <0.1 | 0.7 | <0.5 | 6 | <1 | 11.6 | 0.004 | <0.1 | 1.6 | <2 | <0.1 | 10 |
| 07THP103 | 3.4 | 0.07 | <0.1 | 0.8 | <0.5 | 2 | <1 | 13.8 | 0.001 | <0.1 | 1.4 | <2 | 0.2 | 6 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____
Mark Acres - Quality Assurance

# TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

**APEX Geoscience Ltd.**
Attention: D. Besserer
Project: Bighorn
Sample: 91 Rock

Report No: S25017
Date: October 24, 2007

## MULTIELEMENT ICP-MS ANALYSIS

Aqua Regia Digestion

| Element | Pb | S | Sb | Sc | Se | Sr | Te | Th | Tl | Ti | U | V | W | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| 07THP104 | 4.9 | 0.17 | 0.4 | 1.3 | <0.5 | 108 | <1 | 1.0 | <0.001 | <0.1 | 0.4 | 3 | <0.1 | 26 |
| 07THP105 | 9.2 | 0.31 | 0.2 | 5.0 | <0.5 | 161 | <1 | 1.0 | <0.001 | <0.1 | 0.4 | 11 | <0.1 | 47 |
| 07THP106 | 9.8 | 0.11 | 0.6 | 15.4 | <0.5 | 443 | <1 | 3.1 | 0.052 | <0.1 | 1.0 | 153 | <0.1 | 65 |
| 07THP107 | 5.6 | 0.61 | <0.1 | 3.8 | 1.5 | 56 | <1 | 1.9 | 0.112 | <0.1 | 0.3 | 98 | 0.4 | 55 |
| 07THP108 | 5.1 | <0.05 | <0.1 | 4.1 | <0.5 | 35 | <1 | 3.9 | 0.122 | 0.1 | 0.7 | 50 | 0.2 | 37 |
| 07THP109 | 7.6 | 0.12 | <0.1 | 8.2 | 2.2 | 29 | <1 | 1.9 | 0.125 | <0.1 | 0.9 | 100 | 0.1 | 30 |
| 07THP110 | 0.4 | <0.05 | <0.1 | 0.2 | <0.5 | <1 | <1 | <0.1 | 0.005 | <0.1 | 0.1 | <2 | <0.1 | 8 |
| 07THP111 | 5.5 | 0.16 | <0.1 | 8.6 | 8.0 | 24 | <1 | 4.1 | 0.097 | <0.1 | 1.9 | 66 | <0.1 | 34 |
| 07THP112 | 7.2 | 0.11 | 0.1 | 19.0 | <0.5 | 182 | <1 | 1.8 | 0.003 | <0.1 | 0.4 | 102 | <0.1 | 72 |
| 07THP113 | 4.6 | 0.11 | 0.2 | 7.8 | <0.5 | 128 | <1 | 0.2 | 0.002 | <0.1 | <0.1 | 25 | <0.1 | 21 |
| 07THP114 | 6.4 | 0.72 | 0.1 | 4.4 | 4.6 | 7 | <1 | 2.6 | 0.004 | <0.1 | 0.6 | 111 | <0.1 | 26 |
| 07THP115 | 4.6 | <0.05 | <0.1 | 3.4 | <0.5 | 45 | <1 | 5.0 | 0.116 | <0.1 | 1.1 | 50 | 0.2 | 79 |
| 07THP116 | 10.6 | 1.49 | 0.4 | 10.5 | 1.1 | 35 | <1 | 5.3 | 0.195 | 0.1 | 1.6 | 250 | 32.5 | 114 |
| 07THP117 | 4.0 | 0.88 | <0.1 | 15.0 | 1.0 | 19 | <1 | 3.7 | 0.292 | 0.2 | 1.0 | 153 | 0.2 | 71 |
| 07THP118 | 13.4 | 0.12 | 0.1 | 0.8 | 1.1 | 53 | <1 | 0.8 | 0.010 | <0.1 | 0.4 | 8 | 0.2 | 42 |
| 07THP118 Re | 13.9 | 0.11 | 0.1 | 0.8 | 1.1 | 51 | <1 | 0.8 | 0.009 | <0.1 | 0.5 | 9 | 0.2 | 39 |
| 07THP119 | 1.9 | 1.06 | 0.2 | 1.8 | <0.5 | 6 | <1 | 9.0 | 0.007 | <0.1 | 0.5 | 4 | 0.4 | 16 |
| 07KRP221 | 7.5 | 0.17 | 0.2 | 5.8 | <0.5 | 117 | <1 | 1.6 | 0.002 | <0.1 | 0.5 | 11 | <0.1 | 44 |
| 07KRP222 | 10.0 | >10.00 | 0.4 | 12.5 | 12.9 | 3 | <1 | 1.5 | 0.148 | 0.2 | 1.4 | 178 | 3.9 | 119 |
| 07KRP223 | 9.2 | 1.60 | <0.1 | 7.3 | 1.9 | 18 | <1 | 5.4 | 0.171 | <0.1 | 1.9 | 51 | 0.5 | 26 |
| 07KRP224 | 11.8 | 6.17 | 0.1 | 15.3 | 6.2 | 9 | <1 | 1.4 | 0.140 | 0.1 | 1.1 | 168 | 28.4 | 20 |
| 07KRP225 | 27.5 | 7.83 | 0.1 | 17.1 | 8.8 | 5 | <1 | 1.7 | 0.194 | 0.5 | 1.3 | 194 | 14.0 | 17 |
| 07KRP226 | 3.3 | 0.16 | 0.1 | 0.9 | 0.8 | 6 | <1 | 0.4 | 0.002 | <0.1 | 0.3 | 3 | 0.2 | 3 |
| 07KRP227 | 3.1 | 0.07 | 0.6 | 1.0 | <0.5 | 2 | <1 | 0.7 | 0.002 | <0.1 | 0.3 | 15 | 0.2 | 13 |
| 07KRP228 | 4.5 | 0.56 | 0.3 | 5.6 | 3.2 | 63 | <1 | 1.8 | 0.052 | <0.1 | 1.5 | 68 | 5.1 | 34 |
| 07KRP229 | 5.8 | 1.23 | <0.1 | 10.8 | 4.0 | 128 | <1 | 9.2 | 0.257 | 0.3 | 3.3 | 212 | 0.6 | 110 |
| 07KRP230 | 19.8 | 0.12 | 0.3 | 0.5 | <0.5 | 10 | 1 | 14.0 | 0.001 | <0.1 | 0.9 | <2 | 0.2 | 6 |
| 07KRP231 | 16.9 | 0.18 | 0.5 | 0.2 | <0.5 | 35 | <1 | 3.7 | 0.002 | <0.1 | 0.3 | <2 | 0.2 | 3 |
| 07KRP232 | 1.4 | 0.09 | 0.2 | 0.5 | <0.5 | 5 | <1 | 11.7 | 0.001 | <0.1 | 0.7 | <2 | 0.1 | 3 |
| 07KRP233 | 3.1 | <0.05 | 0.3 | 0.5 | <0.5 | 4 | <1 | 9.2 | 0.002 | <0.1 | 0.5 | 2 | 0.3 | 6 |
| 07KRP234 | 1.2 | 0.06 | 0.1 | 0.7 | <0.5 | 6 | <1 | 7.0 | 0.007 | <0.1 | 0.4 | 3 | 0.6 | 4 |
| 07KRP235 | 3.4 | 0.07 | <0.1 | 0.5 | <0.5 | 56 | 1 | 6.5 | <0.001 | <0.1 | 0.3 | <2 | <0.1 | 11 |
| 07KRP236 | 4.0 | 0.37 | 0.2 | 0.2 | <0.5 | 5 | 4 | 2.0 | 0.001 | <0.1 | 0.2 | <2 | 0.2 | 4 |
| 07KRP237 | 2.3 | 0.95 | 0.1 | 0.1 | <0.5 | 5 | 2 | 1.6 | 0.001 | <0.1 | 0.2 | <2 | 0.2 | 8 |
| 07DAP101 | 1.4 | 1.71 | 0.1 | 2.2 | 13.1 | 9 | <1 | 1.2 | 0.029 | 0.2 | 0.5 | 147 | 1.4 | 55 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____
Mark Acres - Quality Assurance

# TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

**APEX Geoscience Ltd.**
Attention: D. Besserer
Project: Bighorn
Sample: 91 Rock

Report No: S25017
Date: October 24, 2007

## MULTIELEMENT ICP-MS ANALYSIS
Aqua Regia Digestion

| Element | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| 07DAP102 | 10.1 | 3.68 | 0.2 | 11.2 | 3.9 | 11 | <1 | 1.5 | 0.142 | 0.1 | 0.8 | 139 | >100.0 | 20 |
| 07DAP103 | 2.2 | 0.07 | 0.2 | 0.5 | 1.2 | 4 | <1 | 0.3 | 0.003 | <0.1 | 0.1 | 8 | 1.3 | 4 |
| 07DAP104 | 3.2 | 0.51 | 0.1 | 5.0 | 1.2 | 36 | <1 | 1.4 | 0.081 | 0.1 | 0.3 | 56 | 0.5 | 43 |
| 07DAP105 | 3.0 | 0.29 | 0.3 | 4.1 | 1.6 | 10 | <1 | 1.5 | 0.032 | <0.1 | 0.6 | 58 | 0.4 | 17 |
| 07DAP106 | 16.9 | 0.48 | 0.4 | 2.6 | 4.5 | 18 | <1 | 2.6 | 0.010 | <0.1 | 1.0 | 38 | 0.1 | 29 |
| 07DAP107 | 3.9 | 0.30 | <0.1 | 1.7 | 0.8 | 29 | <1 | 8.5 | 0.124 | <0.1 | 1.8 | 36 | 53.7 | 26 |
| 07DAP108 | 5.3 | 0.35 | 0.2 | 2.3 | 1.1 | 65 | <1 | 13.8 | 0.146 | <0.1 | 5.2 | 47 | 37.6 | 44 |
| 07DAP109 | 7.0 | >10.00 | 0.4 | 1.1 | 21.9 | 21 | <1 | 0.9 | 0.088 | <0.1 | 0.3 | 48 | 16.3 | 20 |
| 07DAP110 | 2.4 | 3.45 | 0.5 | 7.8 | 4.1 | 21 | <1 | 6.7 | 0.170 | <0.1 | 2.1 | 97 | 16.8 | 43 |
| 07DAP111 | 3.1 | 0.94 | 0.1 | 0.3 | 2.7 | 5 | <1 | <0.1 | 0.003 | <0.1 | 0.3 | 8 | 0.6 | 5 |
| 07DAP112 | 2.8 | 0.82 | <0.1 | 2.2 | 1.8 | 34 | <1 | 0.3 | 0.035 | <0.1 | 0.1 | 32 | <0.1 | 33 |
| 07DAP113 | 1.2 | 0.05 | <0.1 | 0.5 | <0.5 | 9 | <1 | 0.7 | 0.029 | <0.1 | 0.3 | 10 | <0.1 | 13 |
| 07DAP114 | 11.6 | <0.05 | 0.2 | <0.1 | <0.5 | 8 | <1 | 0.1 | 0.001 | <0.1 | 0.7 | 4 | 0.3 | 2 |
| 07DAP115 | 5.7 | 0.24 | <0.1 | 0.8 | <0.5 | 3 | <1 | 5.1 | 0.002 | <0.1 | 0.5 | 2 | 0.3 | 6 |
| 07DAP116 | 4.7 | 0.75 | <0.1 | 0.7 | <0.5 | 6 | <1 | 9.0 | 0.004 | <0.1 | 0.9 | 4 | 0.5 | 19 |
| 07DAP117 | 333.9 | 0.16 | 1.5 | 2.7 | 0.9 | 6 | 2 | 4.1 | 0.003 | <0.1 | 4.1 | 11 | 0.2 | 70 |
| 07DAP118 | 556.5 | 1.20 | 1.3 | 0.1 | 2.8 | 2 | <1 | 0.1 | 0.001 | <0.1 | 1.2 | <2 | <0.1 | 27 |
| 07DAP119 | 11.9 | 3.09 | 0.2 | 0.8 | 4.0 | 15 | <1 | 0.4 | 0.021 | <0.1 | 0.2 | 17 | 0.2 | 18 |
| 07DAP120 | 6.4 | 4.87 | <0.1 | 5.1 | 3.7 | 19 | <1 | 1.8 | 0.155 | <0.1 | 0.5 | 56 | 7.2 | 26 |
| 07DAP121 | 4.2 | <0.05 | <0.1 | 5.4 | <0.5 | 101 | <1 | 0.3 | 0.001 | <0.1 | 0.2 | 11 | 0.2 | 49 |
| 07DAP122 | 4.3 | <0.05 | <0.1 | 1.4 | <0.5 | 64 | <1 | 3.2 | 0.105 | <0.1 | 0.7 | 43 | 0.1 | 95 |
| 07DAP123 | 2.1 | 0.37 | <0.1 | 3.7 | <0.5 | 24 | <1 | 8.8 | 0.014 | 0.2 | 1.2 | 9 | 0.8 | 14 |
| 07DAP124 | 6.7 | 0.26 | <0.1 | 4.8 | <0.5 | 57 | <1 | 11.3 | 0.001 | <0.1 | 0.8 | <2 | 0.1 | 20 |
| STD DS7 | 70.6 | 0.18 | 4.7 | 2.6 | 3.5 | 71 | <1 | 4.6 | 0.114 | 4.4 | 4.9 | 80 | 3.7 | 415 |
| STD DS7 | 68.9 | 0.20 | 4.8 | 2.6 | 3.6 | 73 | 1 | 4.4 | 0.116 | 4.3 | 4.8 | 80 | 3.5 | 420 |
| BLK | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <1 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| STD DS7 | 60.4 | 0.19 | 5.0 | 2.7 | 3.5 | 79 | 1 | 4.8 | 0.120 | 4.1 | 5.0 | 78 | 3.5 | 403 |
| STD DS7 | 68.6 | 0.19 | 5.2 | 2.7 | 3.3 | 78 | 1 | 4.5 | 0.123 | 4.2 | 5.1 | 81 | 3.6 | 415 |
| BLK | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <1 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| STD DS7 | 65.4 | 0.20 | 3.7 | 2.5 | 3.9 | 75 | <1 | 4.5 | 0.109 | 4.2 | 5.1 | 81 | 3.5 | 383 |
| BLK | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <1 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| STD DS7 | 69.5 | 0.22 | 3.7 | 2.9 | 3.7 | 81 | 1 | 4.6 | 0.120 | 4.1 | 5.0 | 87 | 3.5 | 407 |
| STD DS7 | 74.8 | 0.20 | 4.2 | 3.0 | 3.7 | 78 | 1 | 5.2 | 0.146 | 4.6 | 5.3 | 85 | 3.6 | 434 |
| BLK | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <1 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| STD DS7 | 78.9 | 0.21 | 4.2 | 2.9 | 3.9 | 82 | 1 | 5.1 | 0.148 | 4.6 | 5.7 | 88 | 3.6 | 444 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____
Mark Acres - Quality Assurance

# APPENDIX 5
# HMC STREAM SAMPLE LOCATIONS

| APPENDIX 5 - HMC SAMPLE DESRIPTIONS AND LOCATIONS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| sample_id | x_nad27z8 | y_nad27z8 | gold_grain_count | Au_10^-6*g_estimated | sand_% | silt_% | clay_% | moisture | vegetative |
| 07DAH101 | 530585 | 6601206 | 4 | 29.19 | 70 | 30 | 0 | wet | |
| 07DAH102 | 530913 | 6600966 | 7 | 11.49 | 40 | 50 | 10 | wet | sprs grs |
| 07DAH103 | 529679 | 6600901 | 6 | 11.66 | 40 | 60 | 0 | wet | sprs-mod grs and con |
| 07DAH104 | 530657 | 6600628 | 12 | 46.99 | 40 | 50 | 10 | wet | sprs grs |
| 07DAH105 | 527482 | 6599266 | 3 | 3.3 | 80 | 20 | 0 | wet | sprs grs and con |
| 07DAH106 | 529025 | 6591763 | 27 | 66.37 | 30 | 60 | 10 | wet | |
| 07DAH107 | 528963 | 6592842 | 18 | 50.34 | 80 | 20 | 0 | wet | |
| 07DAH108 | 533270 | 6601930 | 35 | 19.39 | 60 | 40 | 0 | wet | |
| 07DAH109 | 535346 | 6599903 | 4 | 12.01 | 80 | 20 | 0 | wet | sprs con and grs |
| 07DAH110 | 533302 | 6601586 | 1 | 11.41 | 80 | 20 | 0 | wet | |
| 07DAH111 | 534442 | 6599217 | 2 | 13.1 | 80 | 20 | 0 | wet | |
| 07DAH112 | 532895 | 6600579 | 0 | 0 | 85 | 15 | 0 | wet | |
| 07DAH113 | 531120 | 6598489 | 1 | 1.05 | 80 | 20 | 0 | wet | mod con |

| | comments |
|---|---|
| 07DAH101 | stream 10m wide, 10cm deep, high flow rate. 50% qtz, 20% feldspars, 30% mafics-chlorite,biotite. |
| 07DAH102 | figh energy alpine stream, approx 4m wide and 10-20 cm deep. River organics, not enough clay fro silt sample. Bouldery |
| 07DAH103 | stream is 1 m wide, 5-10cm deep, moderate flow rate. Sample taken at flat sediment trap under small 0.5m waterfall. 40% qtz, 30% feldspars, muscovite and some mafics |
| 07DAH104 | sample taken at narrow braid of stream. Lower flow rate. Less than 10 cm deep. 40% qtz, 30% feldspars, micas |
| 07DAH105 | 40% qtz, 30% feldspars, 30% lithic fragments, mafic. Stream 10m wide, 30-40cm deep. Very high energy. Not a lot of fine material. Cannot take silt. |
| 07DAH106 | 20% qtz, 20% feldspars, 60% mafic-chlorite biotite. Stream is 5m wide and 10cm deep. Mod flow rate incirque glacier valley. Sampled FeOx band |
| 07DAH107 | stream is 10m wide 0.4m deep. Very high flow rate. 40% quartz, 30% feldspars, 30% biotite. To sandy cannot take silt sample. |
| 07DAH108 | stream is 7 m wide 30cm deep. Low flow rate. 20% quartz, 10% feldspars, 70% mafic/ lithic fragments |
| 07DAH109 | narrow 1.5m stream, 10-30cm deep. Mod flow rate. 20% quartz, 40% feldspars, 40% mafics. Bedrock is sheared grey blue porphyritic-fine grained phenocrysts. Plag and bt with quartz pods |
| 07DAH110 | 20% quartz, 40% feldspars, 40% mafics. Low energy stream 5m wide and 10-50cm deep. |
| 07DAH111 | stream is 1m wide, 10cm deep. Low flow rate. 30% quartz, 40% feld, 30% lithic fragments. |
| 07DAH112 | very low flow rate. 0.5-1m wide, 10cm deep. 40% quartz, 20% felds, 40% lithic fragments. |
| 07DAH113 | 20% quartz, 20% felds, 60% lithic fragments and mafics. Mouth of drainage emptying into boghorn creek. 2m wide, 10cm deep, mod flow rate. |

# APPENDIX 6
# HMC STREAM SAMPLE ASSAY CERTIFICATES

**SRC Geoanalytical Laboratories**
125 - 15 Innovation Blvd., Saskatoon, Saskatchewan, S7N 2X8
Tel: (306) 933-8118 Fax: (306) 933-5656 Email: geolab@src.sk.ca

Report No: 07-1152

**Apex Geoscience Ltd**
Attention: Michael Dufresne
PO #/Project:
Samples: 13

Date of Report: October 01, 2007

## Knelson Concentrates

Column Header Details

Original Sample Weight in kilograms (SWT)
+1.7mm in grams (+1.7mm)
Concentrate in grams (Concentrate)

| Sample Number | SWT kg | +1.7mm g | Concentrate g |
|---|---|---|---|
| 07-DAH-101 | 5.3 | 1.8 | 54.79 |
| 07-DAH-102 | 7.3 | 3.0 | 47.13 |
| 07-DAH-103 | 9.0 | 2.5 | 70.39 |
| 07-DAH-104 | 6.6 | 2.3 | 54.93 |
| 07-DAH-105 | 7.6 | 2.6 | 56.91 |
| 07-DAH-106 | 8.9 | 8.0 | 48.09 |
| 07-DAH-107 | 7.6 | 2.3 | 41.75 |
| 07-DAH-108 | 9.1 | 2.0 | 59.66 |
| 07-DAH-109 | 6.8 | 2.0 | 49.67 |
| 07-DAH-110 | 6.5 | 5.0 | 58.28 |
| 07-DAH-111 | 7.8 | 1.2 | 60.94 |
| 07-DAH-112 | 8.3 | 3.9 | 62.59 |
| 07-DAH-113 | 9.8 | 3.4 | 60.32 |

**SRC Geoanalytical Laboratories**
125 - 15 Innovation Blvd., Saskatoon, Saskatchewan, S7N 2X8
Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Report

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:
Samples: 13

| Sample # | Sample Weight in Kg | Visible Gold Grain Count | Estimated Weight of Gold in µg |
|---|---|---|---|
| 07-DAH-101 | 5.3 | 4 | 29.19 |
| 07-DAH-102 | 7.3 | 7 | 11.49 |
| 07-DAH-103 | 9.0 | 6 | 11.66 |
| 07-DAH-104 | 6.6 | 12 | 46.99 |
| 07-DAH-105 | 7.6 | 3 | 3.3 |
| 07-DAH-106 | 8.9 | 27 | 66.37 |
| 07-DAH-107 | 7.6 | 18 | 50.34 |
| 07-DAH-108 | 9.1 | 35 | 19.39 |
| 07-DAH-109 | 6.8 | 4 | 12.01 |
| 07-DAH-110 | 6.5 | 1 | 11.41 |
| 07-DAH-111 | 7.8 | 2 | 13.1 |
| 07-DAH-112 | 8.3 | 0 | |
| 07-DAH-113 | 9.8 | 1 | 1.05 |

**SRC Geoanalytical Laboratories**
125 - 15 Innovation Blvd., Saskatoon, Saskatchewan, S7N 2X8
Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-101**

**Estimated Weight of Gold in micrograms: 29.19**

| Length in µm | Width in µm | Description |
|---|---|---|
| 300 | 200 | D |
| 180 | 120 | I |
| 140 | 100 | A |
| 60 | 40 | A |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-102**

**Estimated Weight of Gold in micrograms: 11.49**

| Length in µm | Width in µm | Description |
|---|---|---|
| 140 | 120 | I |
| 140 | 120 | R |
| 120 | 120 | I |
| 120 | 80 | A |
| 100 | 60 | A |
| 60 | 40 | I |
| 40 | 40 | A |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-103**

**Estimated Weight of Gold in micrograms: 11.66**

| Length in µm | Width in µm | Description |
|---|---|---|
| 160 | 100 | I |
| 140 | 100 | A |
| 140 | 80 | A |
| 120 | 120 | A |
| 100 | 80 | A |
| 60 | 60 | A |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

**SRC Geoanalytical Laboratories**
125 - 15 Innovation Blvd., Saskatoon, Saskatchewan, S7N 2X8
Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-104**

**Estimated Weight of Gold in micrograms: 46.99**

| Length in µm | Width in µm | Description |
|---|---|---|
| 400 | 140 | I |
| 160 | 120 | I |
| 140 | 120 | I |
| 140 | 120 | I |
| 140 | 100 | I |
| 120 | 100 | I |
| 120 | 100 | I |
| 120 | 60 | I |
| 100 | 100 | I |
| 80 | 40 | I |
| 80 | 40 | I |
| 60 | 40 | A |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

**SRC Geoanalytical Laboratories**
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Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-105**

**Estimated Weight of Gold in micrograms: 3.3**

| Length in µm | Width in µm | Description |
|---|---|---|
| 120 | 120 | I |
| 80 | 60 | I |
| 80 | 40 | I |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-106**

**Estimated Weight of Gold in micrograms: 66.37**

| Length in µm | Width in µm | Description |
|---|---|---|
| 280 | 220 | D |
| 200 | 120 | I |
| 180 | 140 | I |
| 180 | 100 | I |
| 180 | 100 | A |
| 160 | 120 | I |
| 140 | 100 | I |
| 140 | 80 | I |
| 140 | 80 | D |
| 120 | 120 | I |
| 120 | 80 | A |
| 120 | 80 | I |
| 120 | 80 | A |
| 100 | 100 | I |
| 100 | 80 | I |
| 100 | 80 | I |
| 100 | 60 | A |
| 100 | 60 | I |
| 80 | 60 | I |
| 80 | 60 | I |
| 80 | 60 | I |
| 60 | 60 | A |
| 60 | 40 | I |
| 60 | 40 | I |
| 40 | 20 | I |
| 40 | 20 | A |
| 20 | 20 | A |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-107**

**Estimated Weight of Gold in micrograms: 50.34**

| Length in µm | Width in µm | Description |
|---|---|---|
| 300 | 220 | A |
| 220 | 100 | A |
| 140 | 140 | I |
| 140 | 120 | I |
| 140 | 100 | A |
| 140 | 80 | I |
| 120 | 100 | I |
| 120 | 80 | I |
| 100 | 100 | I |
| 100 | 60 | I |
| 100 | 40 | A |
| 100 | 20 | I |
| 80 | 80 | I |
| 80 | 60 | I |
| 80 | 40 | I |
| 80 | 40 | I |
| 60 | 60 | I |
| 60 | 40 | I |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

**SRC Geoanalytical Laboratories**
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Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-108**

**Estimated Weight of Gold in micrograms: 19.39**

| Length in µm | Width in µm | Description |
|---|---|---|
| 180 | 100 | A |
| 180 | 100 | I |
| 140 | 140 | I |
| 100 | 60 | I |
| 100 | 40 | I |
| 80 | 80 | D |
| 80 | 60 | I |
| 80 | 60 | I |
| 80 | 60 | I |
| 80 | 60 | I |
| 80 | 40 | I |
| 80 | 20 | D |
| 60 | 60 | I |
| 60 | 60 | I |
| 60 | 40 | D |
| 60 | 40 | I |
| 60 | 40 | I |
| 60 | 40 | I |
| 60 | 40 | I |
| 60 | 40 | I |
| 60 | 40 | I |
| 60 | 20 | A |
| 60 | 20 | I |
| 40 | 40 | I |
| 40 | 40 | I |
| 40 | 40 | I |
| 40 | 40 | I |
| 40 | 40 | I |
| 40 | 30 | I |
| 40 | 20 | I |
| 40 | 20 | I |
| 40 | 20 | I |
| 40 | 20 | I |
| 40 | 20 | I |
| 40 | 20 | I |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-109**

**Estimated Weight of Gold in micrograms: 12.01**

| Length in µm | Width in µm | Description |
|---|---|---|
| 220 | 140 | A |
| 120 | 100 | I |
| 100 | 100 | I |
| 60 | 40 | I |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-110**

**Estimated Weight of Gold in micrograms: 11.41**

| Length in µm | Width in µm | Description |
|---|---|---|
| 260 | 140 | D |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

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Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-111**

**Estimated Weight of Gold in micrograms: 13.1**

| Length in µm | Width in µm | Description |
|---|---|---|
| 220 | 160 | I |
| 160 | 100 | I |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

**SRC Geoanalytical Laboratories**
125 - 15 Innovation Blvd., Saskatoon, Saskatchewan, S7N 2X8
Tel: (306) 933-8118 Fax: (306) 933-5656
Email: geolab@src.sk.ca

Report No: 07-1152

## Gold Grain Description Detail

**Apex Geoscience Ltd**

October 01, 2007

Attention: Michael Dufresne
PO #/Project:

**Sample Number: 07-DAH-113**

**Estimated Weight of Gold in micrograms: 1.05**

| Length in µm | Width in µm | Description |
|---|---|---|
| 100 | 80 | I |

Delicate (D) - Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals.

Irregular (I) - After short ice transport, crystals are removed leaving smaller pitted grains with several protrusions. Grains may become curled.

Abraded (A) - With increasing transport, protrusions break off irregular grains producing several smaller leaf shaped grains. Pitted surfaces become smooth.

Rounded (R) - results from continued abrasion, producing small polished spherical or ellipsoidal grains.

Please note that combinations of the descriptions may be used if different characteristics within each individual grain are obser

# APPENDIX 7
# SILT SAMPLE LOCATIONS AND DESCRIPTIONS

APPENDIX 7 SILT SAMPLE LOCATIONS AND DESCRIPTIONS

| sample_id | x_nad27z8 | y_nad27z8 | sand_% | silt_% | clay_% | moisture | colour | vegetative_matter |
|---|---|---|---|---|---|---|---|---|
| 07DAS001 | 529682 | 6600902 | 0 | 0 | 100 | wet | med brown | sprs grs |
| 07DAS002 | 527493 | 6599269 | 0 | 0 | 100 | wet | | none |
| 07DAS003 | 528971 | 6592838 | 0 | 0 | 100 | wet | | sprs con |
| 07DAS004 | 533303 | 6601582 | | | | wet | | |
| 07DAS005 | 532898 | 6600579 | | | | | | |

| | comments | | | | | |
|---|---|---|---|---|---|---|
| 07DAS001 | silt sample med brown clay with small sand and large silt | | | | | |
| 07DAS002 | sampled from ridge crest | | | | | |
| 07DAS003 | sampled from ridge crest | | | | | |
| 07DAS004 | low energy stream, 5m wide, 10-50cm deep. Taken @ 07DAH110 sample site | | | | | |
| 07DAS005 | | | | | | |

# APPENDIX 8
# SILT SAMPLE ASSAY CERTIFICATES

TSL LABORATORIES
2 - 302 48th Street · Saskatoon, SK · S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

| | | | |
|---|---|---|---|
| Company: | APEX Geoscience Ltd. | TSL Report: | S25023 |
| Geologist: | M. Dufresne | Date Received: | Aug 23, 2007 |
| Project: | Bighorn | Date Reported: | Nov 07, 2007 |
| Purchase Order: | AG-00721 | Invoice: | 44477 |

| Sample Type: | Number | Size Fraction | Sample Preparation |
|---|---|---|---|
| Silt | 5 | -80 mesh | Dry, Screen |

**ICP-MS Aqua Regia Digestion $HCl-HNO_3$**

*The Aqua Regia Leach digestion liberates most of the metals except those marked with an asterisk where the digestion will not be complete.*

| Element Name | Lower Detection Limit | Upper Detection Limit |
|---|---|---|
| Ag | 0.1 ppm | 100 ppm |
| Al * | 0.01 % | 10 % |
| As | 0.5 ppm | 10000 ppm |
| Au | 0.5 ppb | 100 ppm |
| B * | 1 ppm | 2000 ppm |
| Ba * | 1 ppm | 1000 ppm |
| Bi | 0.1 ppm | 2000 ppm |
| Ca * | 0.01% | 40 % |
| Cd | 0.1 ppm | 2000 ppm |
| Co | 0.1 ppm | 2000 ppm |
| Cr * | 1 ppm | 10000 ppm |
| Cu | 0.1 ppm | 10000 ppm |
| Fe * | 0.01% | 40 % |
| Ga * | 1 ppm | 1000 ppm |
| Hg | 0.01 ppm | 100 ppm |
| K * | 0.01% | 10 % |
| La * | 1 ppm | 10000 ppm |
| Mg * | 0.01% | 30 % |

| Element Name | Lower Detection Limit | Upper Detection Limit |
|---|---|---|
| Mn * | 1 ppm | 50000 ppm |
| Mo | 0.1 ppm | 2000 ppm |
| Na * | 0.001% | 10 % |
| Ni | 0.1 ppm | 10000 ppm |
| P * | 0.001% | 5 % |
| Pb | 0.1 ppm | 10000 ppm |
| S | 0.05 % | 10 % |
| Sb | 0.1 ppm | 2000 ppm |
| Sc | 0.1 ppm | 100 ppm |
| Se | 0.5 ppm | 1000 ppm |
| Sr * | 1 ppm | 10000 ppm |
| Te | 1 ppm | 2000 ppm |
| Th * | 0.1 ppm | 2000 ppm |
| Ti * | 0.001% | 10 % |
| Tl | 0.1 ppm | 1000 ppm |
| U * | 0.1 ppm | 2000 ppm |
| V * | 2 ppm | 10000 ppm |
| W * | 0.1 ppm | 100 ppm |
| Zn | 1 ppm | 10000 ppm |

# TSL LABORATORIES INC.

**APEX Geoscience Ltd.**
Attention: M. Dufresne, K. Raffle
Project: Bighorn
Sample: 5 Silt

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

Report No: S25023
Date: November 07, 2007

## MULTIELEMENT ICP-MS ANALYSIS

Aqua Regia Digestion

| Element | Ag | Al | As | Au | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | % |
| 07DAS001 | 0.1 | 1.36 | 7.2 | 3.9 | <20 | 202 | 0.1 | 0.58 | 0.2 | 13.2 | 29.0 | 38.0 | 2.79 | 5 | <0.01 | 0.28 | 8 | 1.05 | 447 | 0.5 | 0.023 | 16.4 | 0.166 |
| 07DAS002 | <0.1 | 0.55 | 3.5 | 1.4 | <20 | 36 | <0.1 | 0.61 | 0.1 | 8.4 | 25.0 | 45.4 | 2.71 | 3 | <0.01 | 0.06 | 34 | 0.52 | 286 | 0.6 | 0.007 | 8.8 | 0.233 |
| 07DAS003 | <0.1 | 0.31 | 0.5 | 3.6 | <20 | 74 | 8.8 | 0.44 | <0.1 | 5.3 | 7.0 | 7.5 | 2.45 | 2 | <0.01 | 0.08 | 27 | 0.18 | 157 | 0.3 | 0.015 | 3.6 | 0.172 |
| 07DAS004 | 0.1 | 1.10 | 2.0 | 876.1 | <20 | 205 | <0.1 | 0.32 | 0.2 | 9.0 | 27.0 | 25.0 | 2.09 | 3 | <0.01 | 0.11 | 7 | 0.67 | 491 | 0.8 | 0.014 | 14.1 | 0.101 |
| 07DAS005 | <0.1 | 1.54 | 6.6 | 1.1 | <20 | 191 | <0.1 | 0.55 | 0.2 | 13.9 | 39.0 | 48.5 | 3.39 | 5 | 0.02 | 0.18 | 6 | 1.04 | 439 | 3.2 | 0.015 | 19.9 | 0.099 |
| BLK | <0.1 | <0.01 | <0.5 | <0.5 | <20 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 | <0.001 | <0.1 | <0.001 |
| STD DS7 | 0.8 | 1.08 | 46.9 | 52.3 | 44 | 407 | 4.6 | 1.00 | 6.4 | 10.3 | 207.0 | 108.5 | 2.59 | 5 | 0.21 | 0.46 | 12 | 1.14 | 675 | 21.4 | 0.110 | 80.8 | 0.092 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____
Mark Acres - Quality Assurance

**TSL LABORATORIES INC.**

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

**APEX Geoscience Ltd.**
Attention: M. Dufresne, K. Raffle
Project: Bighorn
Sample: 5 Silt

Report No: S25023
Date: November 07, 2007

## MULTIELEMENT ICP-MS ANALYSIS

Aqua Regia Digestion

| Element | Pb | S | Sb | Sc | Se | Sr | Te | Th | Tl | Tl | U | V | W | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| 07DAS001 | 6.6 | <0.05 | 0.2 | 4.7 | <0.5 | 21 | <1 | 3.6 | 0.102 | 0.1 | 1.6 | 75 | 0.2 | 50 |
| 07DAS002 | 6.9 | 0.05 | 0.1 | 1.9 | <0.5 | 24 | <1 | 25.6 | 0.041 | <0.1 | 4.6 | 84 | 1.1 | 27 |
| 07DAS003 | 5.7 | <0.05 | <0.1 | 0.6 | <0.5 | 32 | <1 | 20.2 | 0.032 | <0.1 | 7.9 | 50 | 1.0 | 15 |
| 07DAS004 | 6.8 | <0.05 | 0.2 | 2.9 | <0.5 | 23 | <1 | 3.3 | 0.053 | <0.1 | 1.2 | 41 | 0.6 | 46 |
| 07DAS005 | 6.9 | 0.06 | 0.2 | 4.0 | 1.3 | 29 | <1 | 2.0 | 0.083 | <0.1 | 1.8 | 75 | 0.5 | 68 |
| BLK | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <1 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| STD DS7 | 72.2 | 0.27 | 4.8 | 2.8 | 3.9 | 77 | <1 | 4.2 | 0.111 | 4.3 | 4.8 | 88 | 3.6 | 419 |

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 10 ml with D.I. H2O.



Signed: _____
Mark Acres - Quality Assurance

TSL LABORATORIES
2 - 302 48th Street • Saskatoon, SK • S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com



99105

Company: APEX Geoscience Ltd.
Geologist: D. Arsenault
Project: Bighorn
Purchase Order: AG-00721

TSL Report: S25023
Date Received: Aug 23, 2007
Date Reported: Sep 04, 2007
Invoice: 44477

Remarks:

| Sample Type: | Number | Size Fraction | Sample Preparation |
|---|---|---|---|
| Silt | 5 | -80 mesh | Dry, Screen |

*Standard Procedure:*

*Samples for Au Fire Assay/AA (ppb) are weighed at 30 grams.*
*Samples for Au Fire Assay/Gravimetric (g/tonne) are weighed at 1 AT (29.16 grams).*

| Element Name | Unit | Extraction Technique | Lower Detection Limit | Upper Detection Limit |
|---|---|---|---|---|
| Au | ppb | Fire Assay/AA | 5 | 3000 |
| Au | g/tonne | Fire Assay/Gravimetric | 0.03 | 100% |

TSL LABORATORIES
#2 – 302 48th Street • Saskatoon, SK • S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

# CERTIFICATE OF ANALYSIS

**SAMPLE(S) FROM** APEX Geoscience Ltd.
200 - 9797 - 45th Avenue
Edmonton, AB T6E 5V8

REPORT No.
S25023

**SAMPLE(S) OF** 5 Silt/0 Pulp

INVOICE #:44477
P.O.:

D. Arsenault
Project: Bighorn

| | Au ppb | File Name |
|---|---|---|
| 07DAS001 | 20 | S25023 |
| 07DAS002 | <5 | S25023 |
| 07DAS003 | 10 | S25023 |
| 07DAS004 | 5 | S25023 |
| 07DAS005 | 10 | S25023 |
| GS-1P5B | 1350 | S25023 |

COPIES TO: M. Dufresne, K. Raffle
INVOICE TO: Apex Geoscience - Edmonton

Sep 04/07

SIGNED _____
Mark Acres - Quality Assurance

# APPENDIX 9
# LARGER SCALE FIGURES 5 AND 6

518000 520000 522000 524000 526000 528000 530000 532000 534000 536000 538000 540000 542000

6608000 6606000 6604000 6602000 6600000 6598000 6596000 6594000 6592000 6590000

N W E S

Inset B
07DAP107
07DAP101
07DAP102
07HCP003
07DAP108
07DAP114
1:10,000

See Inset B
07DAP110
07HCP004
07DAP109

Inset A
07KRP234
07KRP235
07KRP235
07KRP236
07KRP237
07HCP113
07HCP114
07HCP115
07HCP116
07HCP118
07HCP117
07THP119
07DAP115
07HCP008
07DAP116
07KRP230
07HCP119
07KRP233
07KRP232
07DAP117
07KRP231
07DAP118
07HCP100
07HCP101
07THP102
07THP103
07THP101
07DAP124
07DAP123
07HCP011
1:10,000

See Inset C

See Inset A

See Inset D

See Inset E

See Inset F

Inset E
07THP106
07HCP102
07HCP103
07KRP221
07HCP104
07HCP105
07HCP006
07HCP005
1:10,000

Inset C
07DAP106
07KRP227
07KRP228
07DAP105
07THP114
07HCP107
07THP116
07HCP111
07THP115
07HCP108
07HCP109
07THP110
1:10,000

Inset D
07HCP106
07HCP106Re
07HCP105
07HCP104
07THP118
07THP118Re
07THP117
07THP112
07THP113
07THP107
07THP108
07THP111
07THP109
07THP110
07KRP229
07HCP112
1:10,000

Inset F
07DAP112
07HCP007
07DAP113
07DAP111
07DAP104
07DAP103
07KRP226
07DAP122
07HCP010
07HCP009
07KRP222
07DAP120
07DAP101
07DAP121
07DAP119
07KRP225
07DAP102
07KRP223
07KRP224
1:10,000

Inset C

## Legend

- River
- Topographic Contour
- 2009 Micrex Bighorn Claims
- Bighorn Creek

**Rock Grab Sample**
**AU PPB**
- 0 - 70
- 71 - 240
- 241 - 580
- 581 - 1220
- 1221 - 3000

**Micrex Development Corp.**
Bighorn Property
Figure 5 - 2007 Rock Grabs
0 0.5 1 2 3
Kilometers
1:24,000
Nad 27 Zone 8
APEX Geoscience Ltd.
British Columbia, Canada
Edmonton, Alberta October, 2008

520000 522000 524000 526000 528000 530000 532000 534000 536000

6606000 6603000 6600000 6597000 6594000 6591000 6588000 6585000

N W E S

Inset A

07DAH108
07DAS004
07DAH110
07DAH112
07DAS005
07DAH109
07DAH111

1:10,000

See Inset B

See Inset A

See Inset C

See Inset D

Inset B

07DAH101
07DAH103
07DAS001
07DAH102
07DAH104
07DAH105
07DAS002

1:10,000

Inset C

07DAH113

1:2,500

Inset D

07DAH107
07DAS003
07DAH106

1:10,000

## Legend

- Rivers
- Topographic Contour
- Bighorn Claims April09
- Lakes
- Bighorn Creek

**HMC Sample**

**Gold Grain**

- 0 - 2
- 3 - 4
- 5 - 7
- 8 - 18
- 19 - 35

**Silt Sample**

**Au ppb**

- 0
- 1 - 5
- 6 - 10
- 11 - 20

Micrex Development Corp.

Bighorn Property

**Figure 6 - HMC Stream Samples**
**Gold Grain Counts and Silt Samples**

0 0.5 1 2 3 4
Kilometers

1:24,000

Nad 27 Zone
APEX Geoscience Ltd.
British Columbia, Canada

Edmonton, Alberta October, 2008