

PROSPECTING REPORT  
ON THE  
HAWK PROPERTY  
(Hawk 1-8 mineral claims)  
CLINTON MINING DIVISION

NTS 092P/086

Prepared for

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And

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April 2005

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## SUMMARY

The Hawk property is located approximately 50 kilometers northeast of 100 Mile House, in the south Cariboo, British Columbia, Canada, and year-round access is provided via paved and gravel logging roads.

The property is underlain by Nicola Group rocks comprised of basalt-andesite flow, breccia and tuff, with locally finer grained sediment and carbonates, and cut by dikes, sills and small stocks of diorite/diabase, monzonite and locally biotite lamprophyre occurs. Approximately 2 kilometres west of the property, the Takomkane Takomkane Batholith, granodiorite in composition, occurs in north trending contact with volcanic rocks.

Regional scale alteration around the property is comprised of biotite hornfels and epidote, and locally zones of calc-silicate, pyroxine-amphibole skarn occur in proximity with faults, fractures and intrusive contacts that trend north-northeast, and are cross cut by easterly trending structures. Pyrite, bornite, digenite, are the dominant sulphides present on the property, however chalcopyrite occurs locally. Copper sulphides generally appear associated with gold and silver values, however, the presence of gold-silver telluride may in part affect copper-gold ratios, and locally visible gold occurs.

In 2004, the Knob zone was hand trenched at the main zone and averaged 0.88% copper, 1.07g/t gold across 5.0 metres in width, and a float sample nearby returned 4.5% copper, 18014 ppb (18.0 g/t) gold. Approximately 220 metres to the northeast, the Northeast zone returned 0.98% copper, 640 ppb gold across 0.5 metres and grab samples up to 2.49% copper, 3.06 g/t gold, 25.7 ppm silver occur, and the mineralized zone remains open. Approximately 700 metres north of the main showing, angular rubble at Noranda's Trench 3 returned 1.2% copper, 1.3 g/t gold and appears on strike with the Knob zone.

Approximately 500 metres southwest of the Knob zone, prospecting in 2004 discovered a different style of mineralization. Bornite and digenite occur within a mafic volcanic clast supported breccia with a monzonite-diorite intrusive matrix, altered to magnetite-pyroxine-amphibole-magnetite skarn and contains significant concentrations of bornite

and associated copper, gold and silver values. Sample 151690 returned >1% copper, 18g/t silver, and 8,700 ppb gold. This sample is located between two IP anomalies and remains untested by drilling. Approximately 400 metres south of this sample, a quartz vein containing bornite returned 5181 ppm copper, 828 ppb gold, 6.5 ppm silver, over 0.70 metres.

The Knob, Southwest, and Northeast zones generally occur in between two subparallel, north-northeast trending high IP chargeability zones and identify a priority economic target comprised of copper-gold exoskarn and endoskarn approximately 100-250 metres in width and 1.5 kilometres in length, remains open and largely untested by drilling. In addition, bornite occurrences located in the area identify a much larger system, approximately 1.5 X 3 kilometres in dimension, and suggests other significant zones may occur. A program of prospecting, mapping, rock and soil sampling, and magnetic-EM geophysical surveys followed by trenching or drilling of 1000 metres is recommended and expected to cost \$200,000.

## **1. Location and Access**

The Hawk property is located approximately 50 kilometers northeast of 100 Mile House, in the south Cariboo, British Columbia, Canada (Figure 1). Access is via paved and gravel roads and new logging roads through the property. Access from 100 Mile house is via the Canim-Hendrix road which leaves highway 97 about 2 kilometers north of the town. This road is taken northeasterly approximately 50 kilometers to the westerly trending Eagle Creek road. This is followed about 3.5 kilometers to the Schoolhouse Lake forestry road. The Schoolhouse road heads abruptly upwards 300 meters in elevation through eight switch-backs in the first two kilometers, and the user is well advised to read and obey the signs posted at the bottom. The Hawk property is accessed via the Schoolhouse logging road approximately 4.3 kilometers northerly to a junction. The north trending fork is taken approximately 1 kilometer to a cross-cutting cat road. The Initial Post for the Hawk 1-4 claims is situated about 20 meters east of the access road on north side of the cat trail. The Hawk 5-8 claims are located from the appropriate Hawk 1-4 Final Posts to the north and southwest. The western side of the property borders with the Schoolhouse Lake Provincial Park

The property lies at the transition between the Interior Wet Belt and Interior Dry Belt biogeoclimatic zones and within the Quesnel highlands physiographic region. Elevations range from 800 to 1200 meters, with much of the property situated on a broad, undulating plateau between 1100-1180 meters elevation. Extensive logging provides numerous new exposures as well as access trails. The remaining forest covered areas are covered with a mixture of mature and juvenile stands of lodgepole pine, douglas fir, paper birch, and aspen. The wetter areas support western red cedar and white spruce. Alder, willows, wild rose and thimble berry are the dominant ground cover. Several small swamps and water courses provide ample water for exploration purposes. The exploration season is relatively long and can usually begin by mid-April and last until early December. Machine work and diamond drilling would best be carried out during the drier months between July and the end of October.

## 2. Claim Status

The Hawk property consists of eight two-post mineral claims, the Hawk 1-8, which are jointly owned by D. Ridley and D. Blann. (Figure 2, Table 1). An option was signed in December 2004 whereby Happy Creek Minerals Ltd can earn a 100% interest in the claims, subject to a 2.5% NSR retained by Ridley and Blann, by spending \$50,000.00 on the property during 2005. Two cell claims, the Hawk 9 and 10, were acquired in March 2005 and will be included in subsequent work programs. This report is to satisfy assessment requirements for three years on the Hawk 1-8 claims which was filed online April 10, 2005 (invoice number 110011593).

Table 1 Claim Status

Claim Name	Tenure #	Date Staked	**Expiry Date**
Hawk 1	409978	17-Apr-04	17-Apr-08
Hawk 2	409979	17-Apr-04	17-Apr-08
Hawk 3	409980	17-Apr-04	17-Apr-08
Hawk 4	409981	17-Apr-04	17-Apr-08
Hawk 5	413036	1-Aug-04	17-Apr-08
Hawk 6	412037	1-Aug-04	17-Apr-08
Hawk 7	416513	19-Nov-04	17-Apr-08
Hawk 8	416514	19-Nov-04	17-Apr-08

\*\*pending assessment report approval\*\*

### 3. History

The Knob prospect was first discovered by Alfred and Clay Robinson who located the Clay 1-8 mineral claims in 1978. The property was subsequently optioned to Boville Resources Ltd in 1979 who apparently conducted geological mapping, VLF-EM and Max-Min surveys, although details of this work are not available (Gale, 1988).

In 1982 Alcare Resources Inc conducted EM and magnetometer surveys and completed 11 BQ diamond drill holes around the Knob showing (Botel, Werner, 1982). The drilling appears randomly oriented, very shallow and returned little useful information. The best intercept was in hole 82-5 between 42 to 44 feet and returned 2.185% copper, 0.82 oz/t silver, and 0.179 oz/t gold (Gale, 1988).

Between 1984 and 1985, Noranda Exploration Company Ltd completed geological mapping, soil sampling, magnetometer, and IP surveys followed by machine trenching and limited diamond drilling (Baerg, 1985 and Lewis, Bradish, 1985). Noranda's work defined several copper soil anomalies and two IP anomalies, of which one is coincident with the Knob showing. Noranda completed four diamond drill holes totaling 397.15 meters. One hole, 85-3, is located approximately 90 metres southeast of the Knob showing (refer to Property Geology), and contained 0.12% copper, 0.007 oz/t gold over 19.66 meters including a 4.5 meter intercept returning 0.27% copper and 0.13 oz/t gold, ending in 30% epidote altered volcanic breccia at a depth of 94.5m (Lewis, Bradish, 1985). Approximately 200 metres further south, two holes were directed to test high IP chargeability anomalies, approximately 250 metres apart, and ended in 15-40% epidote altered volcanic breccia. No drilling was performed at the main showing or north by Noranda.

In 1988 Sheba Copper Mines Ltd optioned the property and contracted R.E. Gale to examine the property and make recommendations for further work. His report states *“Noranda's work included geochemical, magnetic and IP surveys and pointed up at least 3 areas near the Knob showing, not tested by them, that deserve further investigation. Also, the remainder of the property outside of the Knob showing has had little exploration and should be geologically mapped to seek new showings.”* (Gale, 1988).

In 1990 Princeton Mining Corporation optioned the property, extended Noranda's grid and conducted soil sampling and geological mapping. This work defined the northerly limits of copper soil anomalies depicted by Noranda. Princeton also conducted an extensive soil sampling and mapping program north of Roger Lake where Alf Robinson had found copper mineralized float during earlier prospecting traverses. The Roger lake showing proved to be of limited extent and to contain low grade material (Bishop, 1990).

In April 1994 Pioneer Metals Corporation entered into an agreement leading to an option and conducted a limited detailed soil sampling survey on one of the copper soil anomalies depicted by past operators. Nothing of significance was found and the property was returned to Alfred Robinson later that year (Dunn, Ridley, 1994). Mr. Robinson maintained the property in good standing until his death in 1999.

On October 24, 1994 the BC government announced its decision for a land-use plan for the Cariboo-Chilcotin region which resulted in the establishment of Schoolhouse Lake Provincial Park in early 1995. Government policy was initially in favour of paying fair compensation for mineral tenures affected by this decision. However by January 1995 the government had decided to allow the then current mineral tenures to be placed outside the proposed park boundaries. Alf Robinson was not contacted by government authorities regarding the park decision because the Clay 1-8 mineral claims were mis plotted on government claim maps. The Clay 1-8 claims were held in good standing continuously from 1978 and were examined by government geologists in the early 1980's. Noranda's maps from 1985 clearly show the location of the Knob showing which has been bisected by the Schoolhouse Lake Park boundary. Ridley is currently requesting the government to move the park boundary 250 meters to the west so the Knob prospect can be properly explored and provide room for development of an economic deposit should one exist.

The present property was acquired during 2004 and preliminary prospecting around known showings and in logged off areas was conducted between April 19 to December 10, 2004 and forms the subject of this report.

#### **4. Regional Geology**

The Hawk property is located near the eastern side of Quesnell Terrane, in the South Cariboo, British Columbia (Figure 3). The oldest rocks occur east of the property where the Snowshoe Group, comprised of quartz mica schist, calc silicates and gneiss, and Paleozoic in age, occurs. The Redfern Ultramafic complex occurs at higher elevations to the east and is Permian-Mississippian in age. These rocks lie east of the Eureka Thrust, a west dipping continental scale thrust fault between Paleozoic rocks and the Upper Triassic-Lower Jurassic Nicola Group island arc. The northwest trending Nicola Group island arc assemblage is comprised of basal basaltic flow, black phyllite and minor carbonates, overlain by minor sediment, and dominantly flow, breccia and tuff of predominantly basalt to andesite composition; these rocks are cut by stocks, dikes and sills of monzonite to diorite and pyroxenite composition, and are coeval with the Nicola Group volcanic rocks.

Stocks, dikes and sills of granodiorite, quartz monzonite to granite composition cut Nicola Group and older rocks and are probably Middle Jurassic to Cretaceous in age; these rocks are spatially associated with dikes of rhyolite porphyry, tungsten and molybdenite at the Boss Mountain Mine (Soregaroli, 1976), and the Deception stock, located approximately 15 kilometres further east.

Volcanic rocks of basalt to rhyolite composition cut and overlie previous lithology, are Eocene to Miocene in age, and occur throughout the region in places 600 metres in thickness, and occur dominantly to the west and south of the Hawk property.

Alkaline, olivine and peridot bearing basalt dike, flow, and minor tuff cut all previous units and are Pleistocene to Recent in age, and occur to the east of the property. Glacial till and glacio-fluvial, lacustrine deposits are over 30 metres in thickness locally.

## **5. Property Geology**

The Hawk property is underlain by massive, fine to medium grained, crowded augite-hornblende, porphyry basalt flow, agglomerate and heterolithic breccia, andesite and locally inter-bedded with fine grained sediment of the Nicola Group (Figures 4, 5). These rocks are in north trending contact with the Takomkane batholith, granodiorite to diorite in composition, approximately 2 kilometres west of the property, within Schoolhouse Lake Provincial Park. North to northeast trending dikes of hornblende diorite/diabase, monzonite and biotite lamprophyre occur between 0.5 and 10 metres in width.



At the Knob outcrop, volcanic breccia and finer grained rocks, including a north trending re-crystallized marble, 3-4 metres in width, are moderate to strongly biotite hornfelsed, and contain variable concentrations of quartz, epidote, pyroxine, amphibole and locally wollastonite skarn minerals. Quartz veins, faults, fractures and breccia contain variable concentrations of bornite, digenite, rare chalcopyrite, and pink-orange coarse crystalline calcite. Generally fine grained native gold and silver appear associated with copper, however Coloradoite and Hessite, telluride minerals, also occur (Noranda, 1985), and may in part explain the variability of gold: copper ratios. Historical reports suggest coarse gold, visible to the eye, is present locally.

In 2004, hand clearing of the Main zone exposed a north-northeast trending, steeply dipping zone containing recrystallized calcite, and epidote-calc-silicate skarn altered volcanic breccia in contact with a dike of diabase to diorite composition. The main zone was chip sampled three times and averaged 0.88% copper, 1.07 g/t gold across 5 metres, and remains open in width. A float rock sample near this zone returned 4.5% copper, 18014 ppb (18.0 g/t) gold (Figure 6).

Along strike approximately 150 metres north and at a higher elevation, the recrystallized marble shows lamellar texture, and is fine grained, with trace bornite smeared along foliation; a representative sample of this material over a 5 metre area returned 1018 ppm copper, 35 ppb gold.

The Northeast zone is located approximately 220 metres northeast of the Main showing. Here, a north-northeast trending zone of structurally controlled, weakly cross-cutting gash vein and shears contain small clots and blebs of bornite over approximately 5-7 metres in width, 30 metres in length, and remains open. Sampling in 2004 returned up to 0.98% copper, 640 ppb gold over 0.5 metres and approximately 3-4 metres to the east, 2.49% copper, 3.06 g/t gold, 25.7 ppm silver in grab samples at the edge of outcrop.

Approximately 700 metres north of the main showing, angular rubble at Noranda's Trench 3 returned 1.2% copper, 1.3 g/t gold and appears on strike with the Knob zone.

Approximately 500 metres southwest of the Main showing, mafic volcanic breccia clast and fine grained felsic matrix is strongly altered to dark green pyroxine-amphibole skarn, hydrothermal magnetite, and contains 2-4% bornite/digenite in the breccia matrix as well

as in calcite-filled fractures and returned >1% copper, 18g/t silver, and 8,700 ppb gold (151690, float). Approximately 250 metres east of this sample, and approximately 100 metres southwest of Noranda drillhole 85-4, sub crop of calc silicate and calcite-wollastonite altered skarn occurs (151691). Approximately 400 metres south of this sample, a quartz vein containing bornite returned 5181 ppm copper, 828 ppb gold, 6.5 ppm silver, over 0.70 metres.

Approximately 2 kilometres south of the Knob zone, outcrop and float samples of mafic volcanic breccia contain bornite and returned 6451 ppm copper, 365 ppb gold over 0.4 metres, and >1.0% copper, 275 ppb gold, respectively.

Approximately 1.5 kilometres southeast of the Knob zone, sample 151636 containing trace bornite in quartz float returned 7714 ppm copper, 40 ppb gold, 5.6 ppm silver.

## **6. Prospecting Results**

A total of 28 rock samples were collected and analyzed during the 2004 field season. Rock samples were placed in polyethylene bags, tied closed and shipped to Acme Analytical Laboratories in Vancouver for analysis by ICP-MS, and 12 element ICP assay plus gold. Sample results are plotted on Figures 4, 5, 6, rock sample descriptions are located in Table 2, and analysis certificates are included in appendix 1.

Preliminary prospecting and examination of known showings was conducted between April 21, 2004 and December 5 2004. A new zone of copper-gold mineralization was discovered 600 meters south-southwest of the Knob prospect. Angular boulders consist of dark green to black mafic volcanic clast supported breccia and lighter colored granodiorite matrix which carries heavy bornite mineralization and returned +1% copper, 18g/t silver, and 8718 ppb or approximately 8.7 g/t gold (151690). This area is located between Noranda drill holes 85-2 and 85-4, and the high IP chargeability targets they tested; in addition, previous soil geochemistry in this area returned up to 428 ppb gold and 3250 ppm copper (A.R. #13571, #14798).

Recent work, away from the Knob showings, indicates numerous minor copper occurrences occur in an area approximately 1.5 x 3 kilometers in dimension.

Mineralization in these areas generally forms along relatively narrow north-northeast trending structures in spatial proximity with bedding, intrusive or fault contacts. However, local zones of cross-cutting mineralization occur in the form of calcite-quartz-sulphide filled tension gashes and discontinuous veinlet and stringer zones.

## **7. Discussion**

The Hawk Property is located approximately 2 kilometres from the southeast edge of the Takomkane Batholith, granodiorite in composition, and is underlain by Nicola Group basalt-andesite flow, and breccia, along with finer grained tuff and minor sediment. These rocks are cut by dykes, sills, and small stocks of diabase, diorite, and monzonite composition and are cut by north-northeast trending faults, shears and fractures, and conjugate splays and tension gash veins. A broad area 3 km X 1.5 km in dimension is underlain by hornfelsed volcanic rocks and is regionally epidote altered and locally calc silicate, pyroxine amphibole skarn occurs and contains bornite, digenite, telluride, and associated copper, gold and silver values. At the Knob zone, significant copper, gold and silver values occur in structurally controlled tension gash, and fault-fracture zones in proximity with recrystallized calcite/marble, and a hornblende diorite dike. The main showing returned 0.88% copper, 1.07g/t gold across 5 metres in width and remains open, and in the Northeast zone 0.98% copper, 640 ppb gold across 0.5 metres and grab samples up to 2.49% copper, 3.06 g/t gold, 25.7 ppm silver occur, and remains open.

Approximately 500 metres southwest of the Main zone, prospecting in 2004 discovered a mafic volcanic clast supported breccia, pervasively altered to pyroxine-amphibole skarn, with magnetite, quartz, and has a fine grained monzonite/granodiorite matrix containing significant bornite and associated copper, gold and silver values in the breccia matrix in addition to cross cutting fracture and dissemination; this rock appears different from the dominantly fracture controlled, and non-magnetic mineralization at the Knob zone. Approximately 200 metres east, calcite- rich wollastonite and calc-silicate skarn occurs; these samples are located between two high IP chargeability zones and associated pyrite- bearing dikes that were targeted by Noranda drilling in 1985. The geology, alteration and presence of significant values in rock (>1% copper, 8.7 g/t gold)

and in soil (3250 ppm copper, 428 ppb gold) suggests this area represents at least a 600 metre southwest continuation of the Knob zone.

At the Knob zone, the fine grained nature of the volcanic rocks, limited skarn alteration, calcite-marble, no magnetite, and strong structural control to bornite mineralization suggest it may occur at a higher elevation or a distal position with respect to a classically zoned copper-gold skarn.

The nature of the host rock, strong alteration including magnetite, and associated strong bornite mineralization in sample 151690, suggests potential for a copper-gold exoskarn or endoskarn of economic interest may occur in the 250 metre wide area between the Noranda drill holes in the southwest, and at depth under the Knob zone, and northward. The presence of skarn, bornite, and associated copper, gold silver values, and its position generally between the IP chargeability anomalies identifies an area approximately 100-250 metres in width, and 1.5 kilometres in length which remains largely untested by drilling.

## **8. Conclusions**

The Hawk property is located approximately 50 kilometers northeast of 100 Mile House, in the south Cariboo, British Columbia, Canada. The property comprises 8 mineral claim units held 100% by Happy Creek Minerals Ltd.

The property is underlain by Nicola Group basalt andesite flow, breccia and finer grained calcareous tuff and minor sediments. The Takomkane Batholith, granodiorite in composition, and dikes, sills and small stocks, diabase, diorite and monzonite in composition cut volcanic rocks, and locally biotite lamprophyre dikes occur.

Skarn alteration comprised of epidote, pyroxine and amphibole and quartz veins contain bornite, digenite, and telluride and associated copper, gold and silver values. Results from 2004 sampling at the Knob zone include 0.88% copper, 1.07 g/t gold across 5.0 metres, and float samples to 4.5% copper, 18.0 g/t gold.

Northeast zone is located approximately 220 metres northeast of the Main showing. Here, a north-northeast trending zone of structurally controlled, weakly cross-cutting

gash vein and shears contain small clots and blebs of bornite over approximately 5-7 metres in width, 30 metres in length, and remains open. Sampling in 2004 returned up to 0.98% copper, 640 ppb gold over 0.5 metres and approximately 3-4 metres to the east, 2.49% copper, 3.06 g/t gold, 25.7 ppm silver in grab samples at the edge of outcrop.

Approximately 700 metres north of the main showing, angular rubble at Noranda's Trench 3 returned 1.2% copper, 1.3 g/t gold and appears on strike with the Knob zone.

Prospecting in 2004 discovered volcanic breccia with an intrusive matrix, intensely pyroxine and amphibole altered containing magnetite, quartz, bornite, and returned >1% copper, and 8.7 g/t gold, approximately 600 metres southwest of the Knob zone.

The Knob, Southwest, and Northeast zones occur in between two subparallel high IP chargeability zones, and define a priority economic copper-gold target area approximately 100-250 metres in width and 1.5 kilometres in length, and remains under explored and largely untested by drilling. In addition, favorable geology, alteration and presence of significant bornite and associated copper, gold and silver values in outcrop and float occur over a 1.5 km X 3.0 km area.

## **9. Recommendations**

The Hawk property contains geology, alteration and minerals associated with alkaline porphyry and copper-gold skarn, localized within breccia and structurally- controlled zones. Carbonate-rich mineralization and only minor pyrite overall in the system may result in spotty soil anomalies, and obscures mineralization from view in weathered, or moss-covered outcrop. Work in 2004 and previously have identified a priority copper-gold-silver target 100-250 metres in width and 1.5 kilometres in length. The following exploration is recommended:

- 1) Detailed prospecting, geological mapping, and rock sampling
- 2) Detailed grid establishment over Trench 3 and Knob South zones followed by deep soil/ till sampling and EDA geophysical surveys.
- 3) Machine trenching or diamond drilling 5 holes totaling 1000 metres in the best target area.

The total budget for this work is estimated at \$200,000

## 10. Statement of Costs

D. Blann, P.Eng.; 3 days @ \$500/day (May 27, Aug. 1, Oct. 17, 2004)	\$1500.00
D. Ridley, prospector: 9 days @ \$300/day (Apr. 18, 19, 20, July 27, 28, 29, Nov. 20, 21, 24, 2004)	\$2700.00
Truck; 9 days @ \$100/day	\$ 900.00
Room/Board; 12 days @ \$60/day	\$ 720.00
Field supplies;	\$ 25.00
Analysis; 28 rocks @ \$22.50 each	\$ 630.00
6 assays @ \$12.00 each	\$ 72.00
Report;	<u>\$ 1200.00</u>
<b>Total Expenditures for 2004 field season</b>	<b>\$ 7747.00</b>

## 11. References

**Baerg RJ**, 1985; Geological, Geochemical and Drilling Report on the Hawkins Lake Property; Ass. Rpt. #13571.

**Bishop ST**, 1990; Geological and Geochemical Report on the Robby Claim Group; Ass. Rpt. #14798.

**Botel WG, Werner LJ**, 1982; Preliminary Geological Report on the Hawkins Lake Property; Ass. Rpt. #10183.

**Burton ADK**, 1980; Report on the North and Clay Mineral Claims; Private Report for Alcare Resources Ltd.

**Campbell RB, Tipper HW**, 1972; Geology of the Bonaparte Lake Area; GSC Memoir 363.

**Gale RE**, 1988; Report on the Hawkins Lake Copper-Gold Prospect; Private Report for sheba Copper Mines Ltd.

**GSC Geophysics Paper 5231**; Canim Lake 92P\15; Aeromagnetic survey 1968; Map #5231G.

**Lewis TD, Bradish L**, 1985; Geological, Geochemical and geophysical report on the Hawkins Lake-Alcare Resources Option; Private Report for Noranda Exploration Co. Inc.

**Ridley DW, Dunn D**, 1994; Prospecting and Geochemical Report on the Hawk Group; Ass. Rpt. #23278.

**Ridley DW, Dunn D**, 1994; Prospecting Report on the Eagle Claims; Ass. Rpt. #

**Ridley DW, Dunn D**, 1994; Geochemical report on the Clay Property; Ass, Rpt. #



## **12. Statement of Qualifications**

I, David E. Blann, P.Eng., of Squamish, British Columbia, do hereby certify:

That I am a Professional Engineer registered in the Province of British Columbia.

That I am a graduate in Geological Engineering from the Montana College of Mineral Science and Technology, Butte, Montana, 1987.

That I am a graduate in Mining Engineering Technology from the B.C. Institute of Technology, 1984.

That I have been actively engaged in the mining and mineral exploration industry since 1984, and conclusions and recommendations within this report are based on regional and property fieldwork conducted between 1991 and 2004.

Dated in Squamish, B.C., April 20, 2005

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David E Blann, P.Eng.

**Statement of Qualifications**

I, David Wayne Ridley, PO Box 77, Eagle Creek, BC, V0K 1L0, do hereby certify:

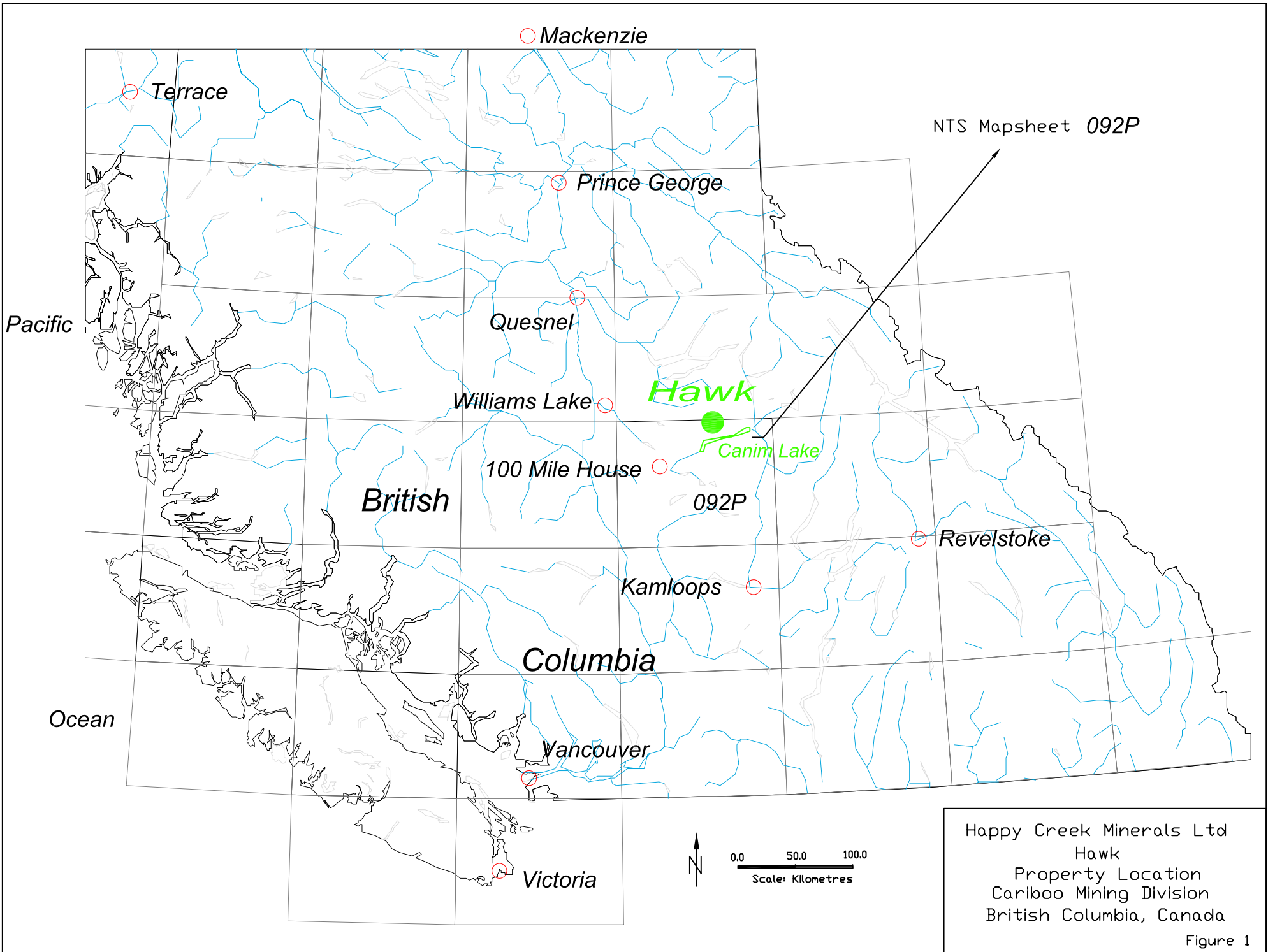
- 1) I completed the "Mineral Exploration for Prospectors" course hosted by the BC Ministry of Mines at Mesachie Lake, BC in 1984.
- 2) I completed the short course entitled "Petrology for Prospectors" held in Smithers, BC and hosted by the Smithers Exploration Group in 1990 and 1994.
- 3) I attended several short courses hosted by the Kamloops Exploration Group during the Keg convention and include "Intrusion-related Gold" (1999) "Massive Sulphides" (2001) and "Metallogeny of Volcanic Arcs" (1998).
- 4) I have prospected independently since 1982 and have been employed as a contract prospector by various exploration companies in BC, Alaska, and Yukon Territory since 1984
- .
- 5) I participated in the 2004 work program
  
- 6) I currently own a beneficial interest in the property.

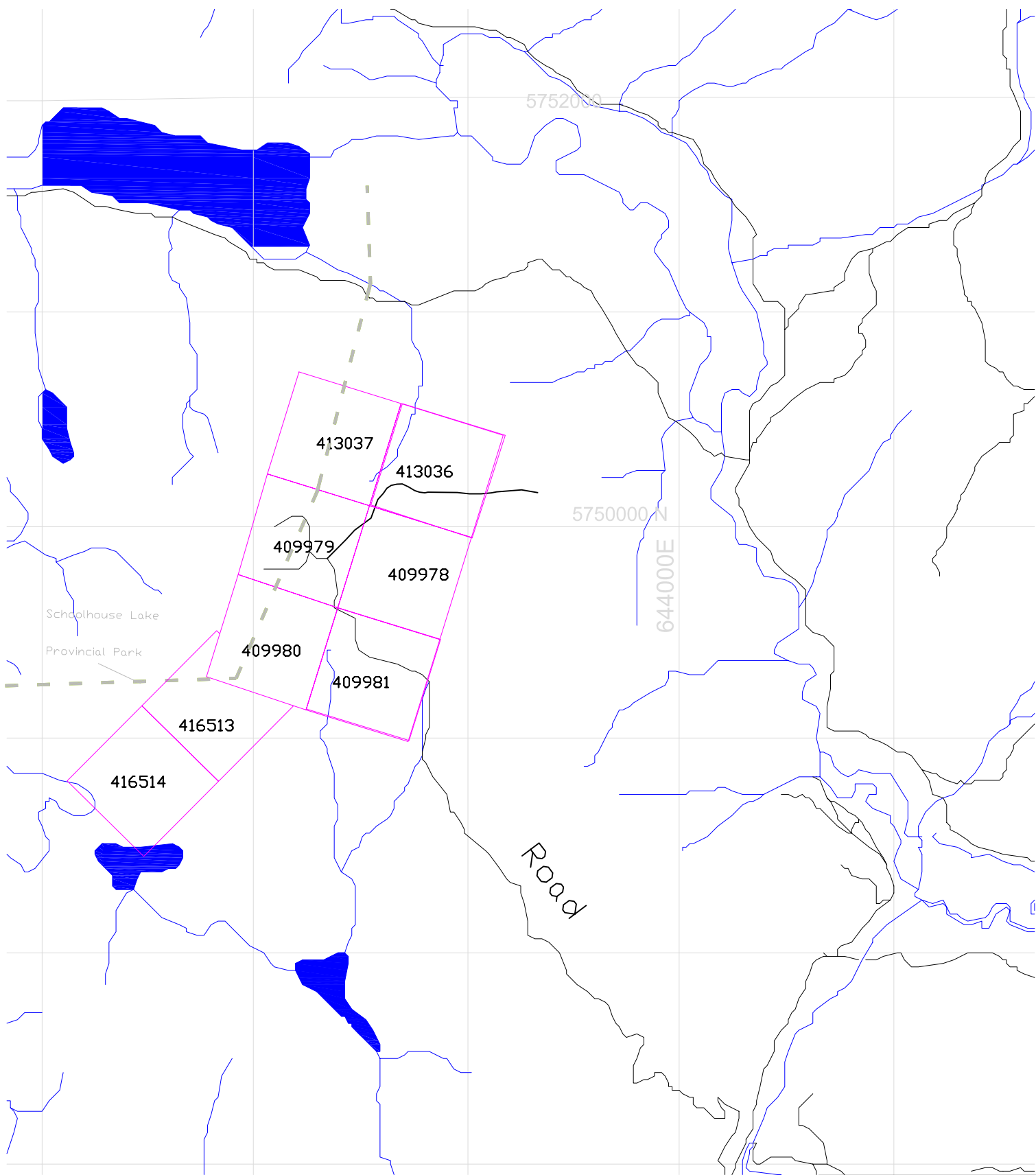
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D. Ridley  
Feb. 10, 2005

## 13. Tables

Area	Sample ID	Easting	Northing	Elev	EPE	Description	Width	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppm	Cd ppm	Sb ppm	Bi ppm	Ca %	K %	W ppm	Ti ppm	Hg ppm	Au* ppb	Au g/t	Ag g/t	Cu %	Pd (ppb)	Pt (ppb)		
Hawk	03DBH-1	642586	5749463	1043	5	FG A-Hbl, Fxt/Bx, sheared, py+ ank-ca-qtz-ser vns, tr cp		1	226	<3	33	0.3	17	20	475	3.72	2	<2	<.5	<3	<3	1.48	0.26	<2	<5	<1	6.4							
Hawk	03DBH-2	642630	5749450	1036	5	As DBH-1, strong Ca-Ep vnbx, 1% py, 0.5% cp		8	2710	<3	15	0.8	30	6	339	1.45	<2	<2	<.5	<3	<3	1.76	0.05	3	<5	<1	21.4							
Hawk	03DBH-3	642694	5750211	1030	4	A-Fp Volc cut by ser-ca vns, spec hem, tr py, cp		17	69	<3	4	<.3	3	2	46	1.13	2	<2	<.5	<3	<3	0.05	0.02	<2	<5	<1	9.6							
Hawk	HAWK 02 [	642067	5749396			Main show float on road		1	45264	5	5	105.7	6	3	307	1.47	3	16	<.5	<3	20	2.66	0.01	<2	<5	3	18014.8							
Hawk	151751	643134	575016	1005	10	fault gouge		2.0	2	147	6	40	<0.2	37	24	604	3.47	<.5	<.5	<.5	0.72		<10		5	10								
Hawk	151752	642811	5750161	1009	7	chip 260degrees Ca strgs w py-cp rusty		5.0	<1	276	22	101	0.6	61	33	1408	5.11	<.5	<.5	<.5	7.79		<10		260	45								
Hawk	151753	642216	5749942	1029	6	shear 5m wde, Bo-Cp, ep-qtz-ca strgs		0.5	<1	9980	4	25	9.2	15	14	342	2.38	<.5	<.5	<.5	1.78		<10		40	640				0.98	5	5		
Hawk	151754	642216	5749949	1029	6	Bo-Cp pnk Ca, chl		0.5	<1	3188	6	33	5.8	14	18	354	4.14	<.5	<.5	<.5	1.65		<10		30	770								
Hawk	151755	642071	5749861	1005	13	dump grab Ca rich sample A-hbl-f p marble + mal/bo dig n Prk Ca		0.0	2	5192	8	13	8.8	31	8	417	0.95	<.5	<.5	<.5	>10		<10		70	780								
Hawk	151756	642065	5749785	1075	12	cont'd from 151643		3.5	1	8075	6	17	8.3	33	9	386	1.35	<.5	<.5	<.5	9.66		<10		140	795								
Hawk	151776	642061	5749804	1074	9	Start of Trench 1 to west- Bo-MalShear		1.0	0.8	>10000	1.1	17	20.6	8.9	6.3	322	1.37	1.7	0.5	0.3	7	2.32	0.06	0.6	<.1	0.29	2219.8							
Hawk	151777	642062	5749804	1074	9	Trench 1 1-2m		1.0	0.4	8897.5	1	9	11	4.9	3.6	433	0.99	1.4	0.5	0.2	4.2	9.58	0.03	0.3	<.1	0.26	1112.4							
Hawk	151778	642063	5749804	1074	9	Trench 1 2-3m		1.0	0.2	358.5	0.9	15	0.3	5.2	4.4	638	0.85	3.6	0.2	0.1	0.1	26.62	0.07	0.1	<.1	0.03	34.6							
Hawk	151779	642064	5749804	1074	9	Trench 1 3-4m		1.0	0.2	158.9	1	12	0.1	5.3	4.7	833	1.16	4	0.1	<.1	<.1	23.41	0.1	0.1	<.1	0.02	10.4							
Hawk	151780	642065	5749804	1074	9	Trench 1 4-5		1.0	0.6	>10000	2.5	20	5.5	14.8	8.1	578	1.65	1.9	0.3	0.2	3.9	7.74	0.09	0.3	<.1	0.28	554.3							
Hawk	151781	642060	5749807	1076	9	Trench 2 0-1m		1.0	0.5	2344.5	1.2	33	2.6	10.4	10.4	440	1.88	3.5	0.2	0.5	1.2	6.33	0.12	0.4	<.1	0.15	325.4							
Hawk	151782	642061	5749807	1076	9	Trench 2 1-2m		1.0	0.6	6789	0.8	24	11.1	15.4	10.4	378	1.57	1.5	0.3	0.3	3.6	2	0.14	0.4	<.1	0.43	1312.5							
Hawk	151783	642062	5749807	1076	9	Trench 2 2-3m		1.0	0.2	1201.1	0.9	25	0.9	12.8	9.6	530	1.76	3.1	0.2	0.2	0.5	12.99	0.18	0.2	<.1	0.44	157.4							
Hawk	151784	642063	5749807	1076	9	Trench 2 3-4m		1.0	0.6	5359	1.1	15	7	8.2	6.1	548	1.23	1.8	0.3	0.2	2.8	9.49	0.12	0.5	<.1	0.38	910.2							
Hawk	151785	642064	5749807	1076	9	Trench 4-5m		1.0	0.5	8074.7	1.6	15	10.2	7.1	6.1	482	1.26	2.4	0.5	0.3	3.1	7.47	0.04	0.4	<.1	0.96	1715.1							
Hawk	151636	643100	5748659			qtz. Float on road;		5	7714	4	26	5.6	20	24	251	4.06	<.5	<.5	<.5	0.41		<10		245	40									
Hawk	151637	642859	5749035					10	47	<2	7	<0.2	6	2	57	0.67	<.5	<.5	<.5	0.32		<10		20	5									
Hawk	151638	642388	5749515					126	45	4	17	0.2	29	15	122	3.35	<.5	<.5	<.5	0.06		<10		1870	15									
Hawk	151639	642216	5749942			grab trench rubble; Knob East		1	4035	6	40	3.7	15	15	485	2.32	<.5	<.5	<.5	2.39		<10		70	470									
Hawk	151640	642216	5749949			20 m. north of 151639		2	>10000	10	27	25.7	15	15	367	2.71	<.5	<.5	<.5	2.72		<10		240	>1000	3.06			2.49	15	5			
Hawk	151642	642692	5750202			40 cm qtz vein; 040/70W; minor py-cpy-mal		0.4	20	802	<2	5	0.5	6	6	43	0.48	<.5	<.5	<.5	0.17		<10		5	85								
Hawk	151643	642060	5749806			1.3 meter chip; high grade bornite; Knob West		1.3	2	>10000	<2	9	29.6	10	6	210	0.95	<.5	<.5	<.5	1.84		<10		230	>1000	3.30			2.57	5	20		
Hawk	151644	642060	5749800			trench rubble; @ 151643; Knob West		1	>10000	<2	8	24.4	14	5	333	0.78	<.5	<.5	<.5	4.07		<10		210	>1000	3.25			1.85	5	<.5			
Hawk	151645	642053	5749928			limestone; random grab; hematite, minor mal		<1	1018	12	8	0.2	87	5	1705	0.37	<.5	<.5	<.5	>10		<10		70	35									
Hawk	151646	641577	5747894			ang volc float on road @ 6 km post;		2	>10000	4	31	8.4	7	11	322	1.29	<.5	<.5	<.5	1.15		<10		<.5	275									
Hawk	151647	641573	5747899			30 cm grab outcrop; 10 meters NW of 151646		0.4	2	6451	6	11	2.5	4	5	161	1.12	<.5	<.5	<.5	1.07		<10		30	365								
Hawk	151648	641805	5747862			30 cm grab outcrop on road		2	6170	8	44	3.3	9	14	634	1.46	<.5	<.5	<.5	1.13		<10		50	205									
Hawk	151659	642558	5750596			ang float; aug porp w pink cal-qtz stkwk		0.6	265.1	1.7	46	0.1	15.9	18	452	2.86	3.5	0.1	0.1	0.2	1.25	0.16	0.3	<.1	0.01	1.3								
Hawk	151660	642881	5750714			beside road; sheared monzonite? 5-7% py		1.3	5.7	1.3	24	<.1	6.4	30.4	335	4.86	9.6	<.5	<.5	0.64	0.2	1.5	0.1	0.1	0.02	61.5								
Hawk	151689	641949	5749071			70 cm wide qtz vein; minor bornite		0.7	0.7	5181.2	2.6	5	6.5	3	1.1	59	0.48	<.5	828.8	0.1	0.1	0.4	0.17	0.02	4.6	<.1	3.52							
Hawk	151690	641877	5749390			angular float;breccia; volc clasts,grd matrix; 3-5% bornite		1.8	>10000	1.7	19	17.9	3.6	5.7	427	2.1	<.5	8718	0.5	0.1	8.8	1.98	0.08	0.9	<.1	2.12								
Hawk	151691	642095	5749435			limestone; wollastonite,minor epidote-py; subcrop		0.2	105.1	2.2	57	0.1	13.5	13.7	776	2.23	2.2	17.9	0.2	0.4	<.1	4.69	0.08	1	<.1	0.02								

## 14. Figures

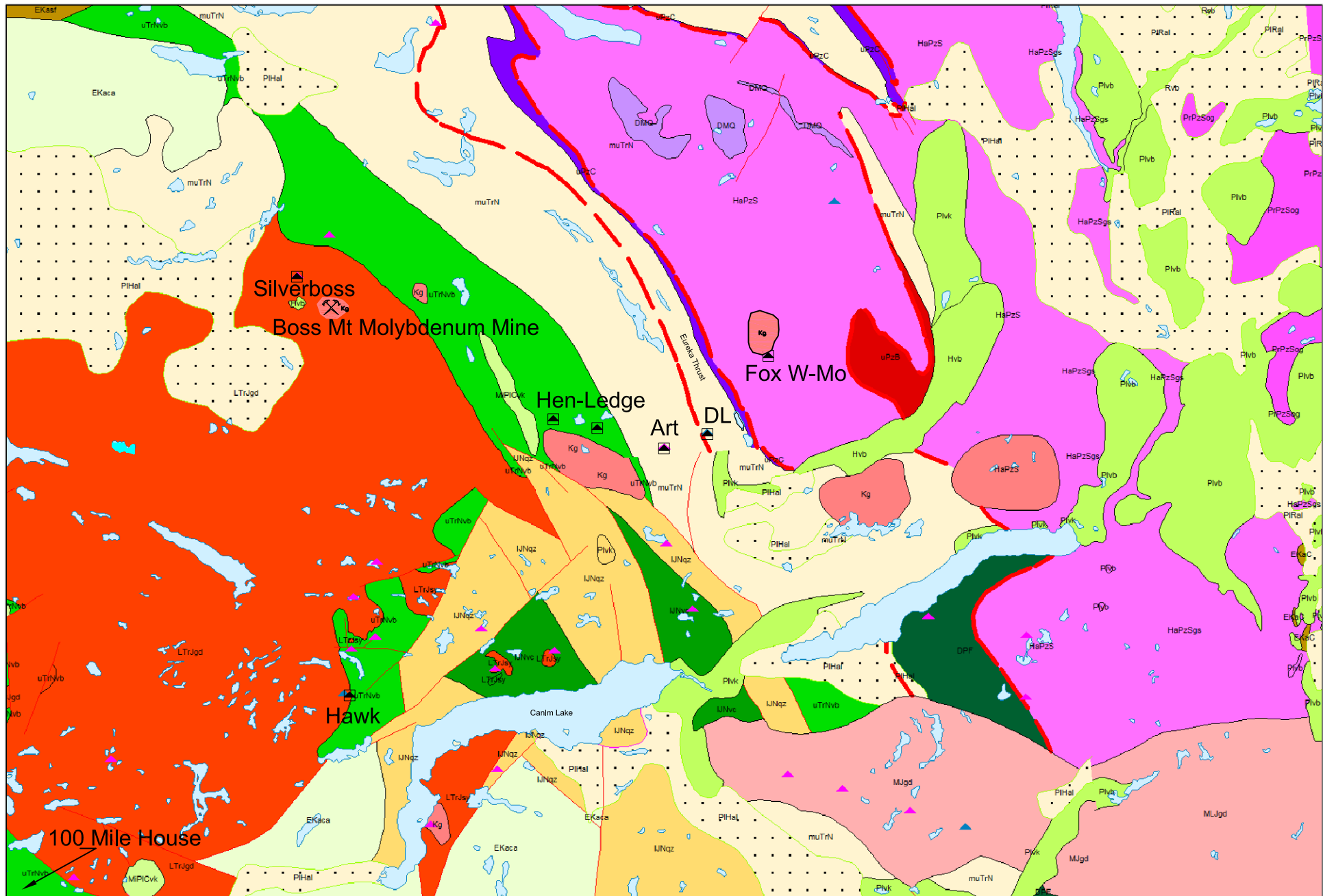




0.0 400 800 m  
Scale: Metres



Happy Creek Minerals Ltd  
Hawk Property  
Mineral Claim Location  
NTS: 092P.086 NAD 83 Zone 10  
Clinton Mining Division Figure 2



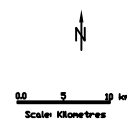
**Geology Legend**

PIHal Pleistocene to Holocene Glacial Till, Alluvium  
 Hvb Holocene Basaltic Volcanic Rocks  
 EKaca Eocene Kamloops Group Calcalkaline Volcanic Rocks  
 Plvb Pleistocene Basaltic Volcanic Rocks  
 Plvk Pleistocene Alkaline Volcanic Rocks

IJNvc Lower Jurassic Nicola Group Volcaniclastics  
 IJNqz Lower Jurassic Nicola Group Quartzite, Quartz arenite sedimentary Rocks  
 muTrN Middle-Upper Triassic Basal black phyllite, minor volcanic rocks  
 uTrNvb Upper Triassic Nicola Group Basaltic Volcanic Rocks  
 uPzB Upper Paleozoic Black Riders Mafic Ultramafic Complex  
 DMQ Devonian to Permian Fennel Formation Basaltic Volcanic Rocks  
 HaPzSgs HadriInlan to Paleozoic Snowshoe Group Greenstone, Greenschist, Metamorphic Rocks  
 HaPzS HadriInlan to Paleozoic Snowshoe Group Undivided

Kg Cretaceous undivided Intrusive rocks  
 MJgd Middle Jurassic Granodiorite Intrusive Rocks  
 LTRJgd Late Triassic-Early Jurassic Granodiorite  
 LTRJsy Late Triassic-Early Jurassic syenite, monzonite

— Fault  
 — Thrust Fault

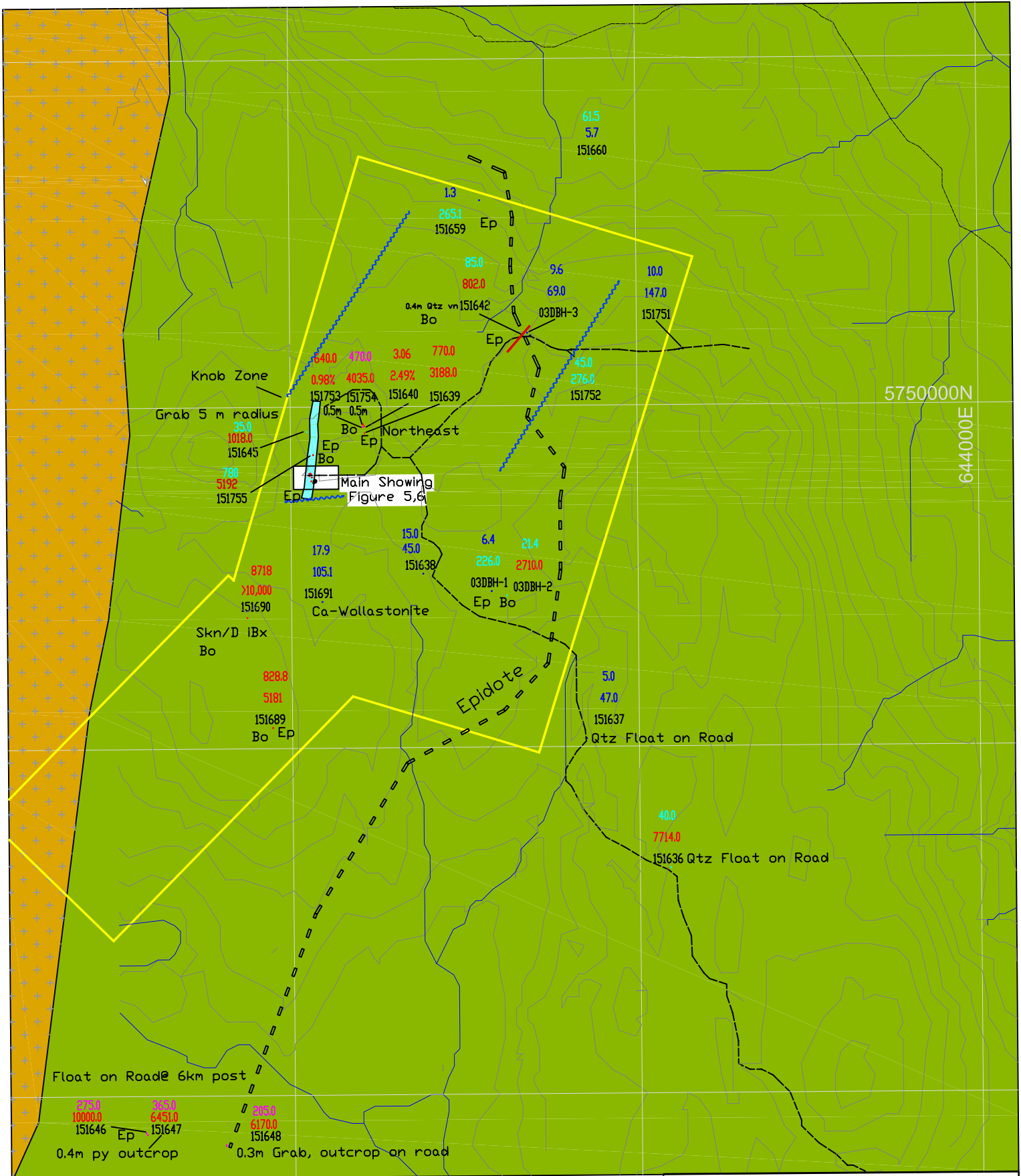


**Happy Creek Minerals Ltd  
 Cariboo Project Area  
 Regional Geology**




Canim Lake Area, B.C., Canada  
 Mapsheets: 092P, 093A

D. Blann, P.Eng. Feb, 2005 **Figure 3**





Geology Legend

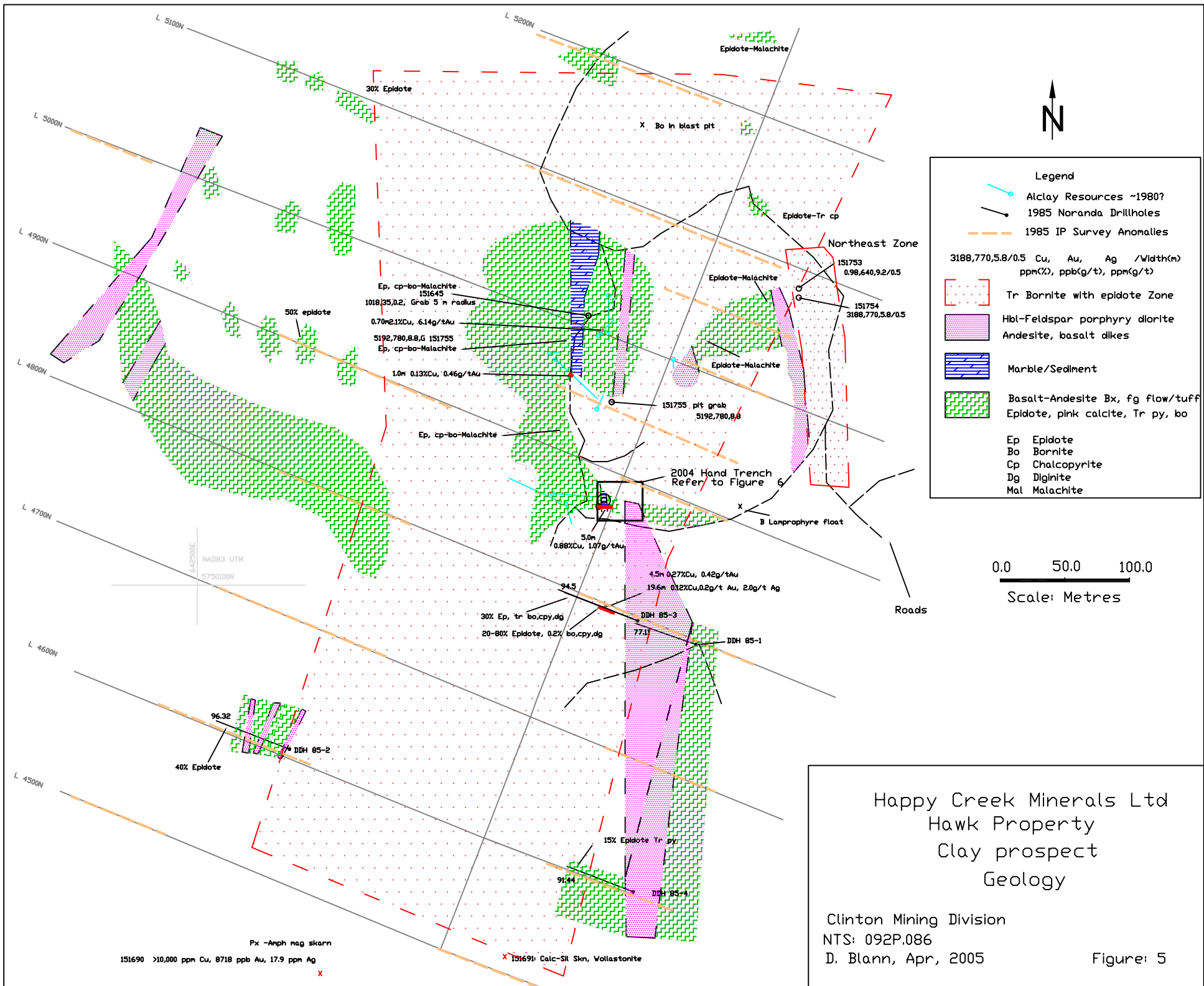
-  Takomkane Granodiorite  
Border phases- monzodiorite/Diorite
-  Nicola Group  
Basalt-Andesite  
breccia, Flow, minor marble/seds
-  Nicola Group  
Marble

- Ep Epidote
- Bo Bornite
- 365.0 Au (ppb)
- 6451.0 Cu (ppm)
- 151647 Rock Sample #

Happy Creek Minerals Ltd  
Hawk Property

Geology  
and  
Rock Sample Location

NTS: 092P.086  
Clinton Mining Division Figure 4



Px -Amph mag skarn  
151690 >10,000 ppm Cu, 8718 ppb Au, 17.9 ppm Ag

X 151691 Calc-Sil Skn, Wollastonite

40% Epidote

DDH 85-2

96.32

30% Ep, tr bo,cpy,dg  
20-80% Epidote, 0.2% bo,cpy,dg

DDH 85-3

77.1

DDH 85-1

5.0m  
0.88%Cu, 1.07g/tAu

4.5m 0.27%Cu, 0.42g/tAu  
19.6m 0.32%Cu, 0.2g/t Au, 2.0g/t Ag

151755 pit grab  
5192,780,8.6

Ep, cp-bo-Malachite  
151645  
1018,35,0.2, Grab 5 m radius  
0.70m±1%Cu, 6.14g/tAu  
5192,780,8.6 151755  
Ep, cp-bo-Malachite

1.0m 0.13%Cu, 0.46g/tAu

Ep, cp-bo-Malachite

151753  
0.98,640,9.2/0.5

151754  
3188,770,5.8/0.5

2004 Hand Trench  
Refer to Figure 6

B Lanprophyre float

Roads

Northeast Zone

Epidote-Tr cp

Epidote-Malachite

Epidote-Malachite

Epidote-Malachite

Epidote-Malachite

X Bo in blast pit

30% Epidote

50% epidote

L 5100N

L 5200N

L 5000N

L 4900N

L 4800N

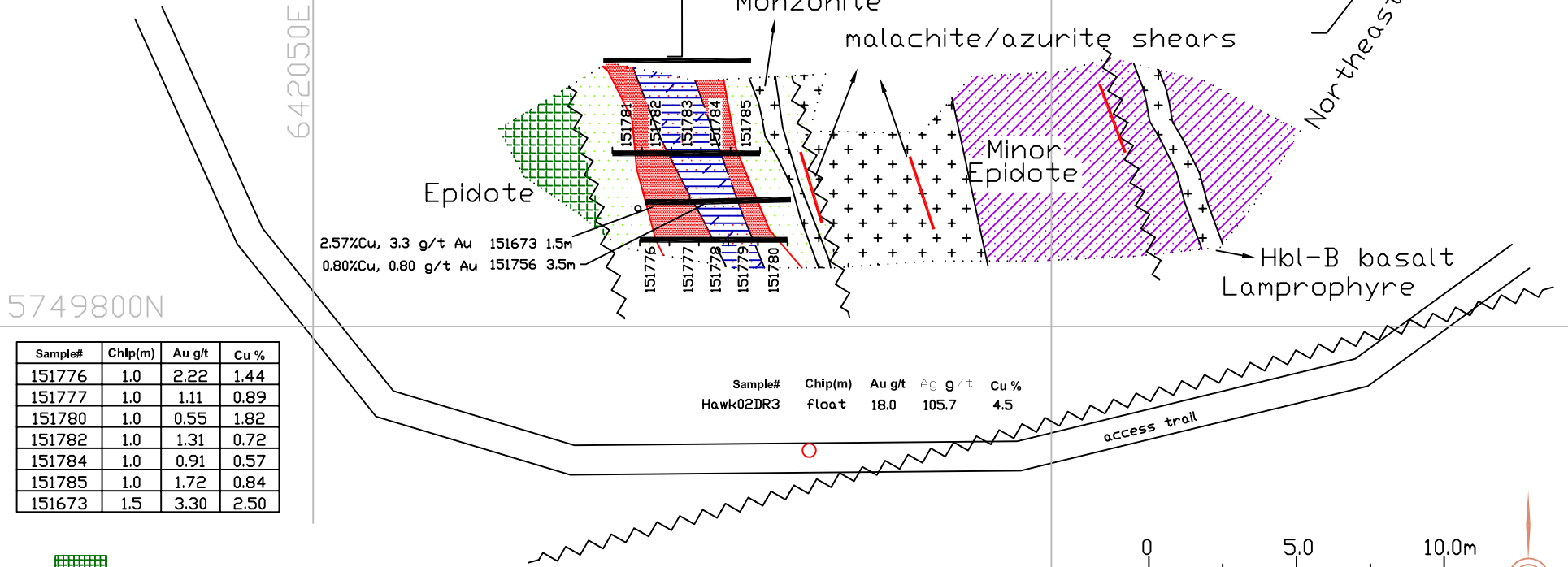
L 4700N

L 4600N

L 4500N






NAD83 UTM  
6482500E  
5750100N

3 hand trenches average: 0.88% copper, 1.07g/t gold over 5.0 metres

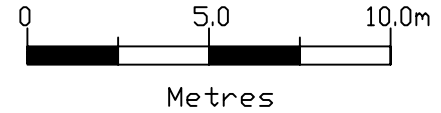


Sample#	Chip(m)	Au g/t	Cu %
151776	1.0	2.22	1.44
151777	1.0	1.11	0.89
151780	1.0	0.55	1.82
151782	1.0	1.31	0.72
151784	1.0	0.91	0.57
151785	1.0	1.72	0.84
151673	1.5	3.30	2.50

Sample#	Chip(m)	Au g/t	Ag g/t	Cu %
Hawk02DR3	Float	18.0	105.7	4.5

-  A-Hbl-Fp Basalt Breccia, Flow
-  Epidote altered Vbx, Qtz-pink Ca Vn
-  Grey, Fg, volcanic tuff/ sediments
-  White- grey recrystallized calcite/marble
-  Malachite-Bornite

151780 2004 Chip Sample Number



Happy Creek Minerals Ltd  
Hawk Property  
Main Showing  
2004 Trench and Chip Sampling Plan

NAD83 UTM: Zone 10      Clinton MD  
Mapsheet: 092P.086  
D.Blann, P.Eng.

Figure: 6

**15. Appendix**

Appendix 1

Assay Certificates

## ECO TECH LABORATORY LTD.

10041 Dallas Drive

## KAMLOOPS, B.C.

V2C 6T4

Phone: 250-573-5700

Fax : 250-573-4557

## ICP CERTIFICATE OF ANALYSIS AK 2004-369

## Standard Metals Exploration Ltd.

38151 Clarke Drive

Box 1852

## Squamish, BC

V0N 3G0

**ATTENTION: Dave Blann***No. of samples received: 20**Sample type: Rock***Project #:SMX04-Z****Shipment #: Not indicated***Samples submitted by: Dave Blann***Values in ppm unless otherwise reported**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	151636	5.6	0.17	<5	25	<5	0.41	<1	24	102	7714	4.06	<10	0.22	251	5	<0.01	20	520	4	<5	<20	6	0.04	<10	21	<10	4	26
2	151637	<0.2	0.01	<5	<5	<5	0.32	<1	2	158	47	0.67	<10	0.10	57	10	<0.01	6	10	<2	<5	<20	<1	<0.01	<10	2	<10	<1	7
3	161638	0.2	0.37	<5	25	<5	0.06	<1	15	172	45	3.35	<10	0.35	122	126	0.05	29	90	4	<5	<20	34	0.03	<10	20	<10	2	17
4	151639	3.7	0.90	<5	20	<5	2.39	<1	15	58	4035	2.32	<10	0.96	485	1	0.11	15	2600	6	<5	<20	22	0.09	<10	60	<10	6	40
5	151640	25.7	0.94	<5	10	<5	2.72	<1	15	53	>10000	2.71	<10	0.85	367	2	0.06	15	3560	10	<5	<20	79	0.11	<10	41	<10	7	27
6	151641	0.4	0.26	<5	55	<5	0.11	<1	7	91	133	2.68	<10	0.14	27	2	0.01	7	240	<2	<5	<20	17	0.04	<10	19	<10	2	9
7	151642	0.5	0.05	<5	<5	<5	0.17	<1	6	124	802	0.48	<10	0.05	43	20	<0.01	6	70	<2	<5	<20	<1	<0.01	<10	4	<10	<1	5
8	151643	29.6	0.36	<5	5	<5	1.84	<1	6	58	>10000	0.95	<10	0.44	210	2	<0.01	10	2500	<2	<5	<20	36	0.09	<10	<1	<10	3	9
9	151644	24.4	0.30	<5	5	<5	4.07	<1	5	54	>10000	0.78	<10	0.43	333	1	<0.01	14	2060	<2	<5	<20	47	0.07	<10	<1	<10	2	8
10	151645	0.2	0.15	<5	10	<5	>10	<1	5	16	1018	0.37	<10	0.46	1705	<1	<0.01	87	410	12	<5	<20	<1	0.02	<10	14	<10	1	8
11	151646	8.4	0.73	<5	5	<5	1.15	<1	11	41	>10000	1.29	<10	0.66	322	2	0.03	7	2340	4	<5	<20	62	0.09	<10	62	<10	8	31
12	151647	2.5	0.53	<5	5	<5	1.07	<1	5	37	6451	1.12	<10	0.22	161	2	0.04	4	1940	6	<5	<20	66	0.08	<10	79	<10	7	11
13	151648	3.3	1.04	<5	50	<5	1.13	<1	14	54	6170	1.46	<10	1.01	634	2	0.03	9	1970	8	<5	<20	65	0.07	<10	28	<10	9	44
14	151751	<0.2	1.00	<5	55	<5	0.72	<1	24	124	147	3.47	<10	0.94	604	2	0.05	37	1080	6	<5	<20	18	0.08	<10	59	<10	7	40
15	151752	0.6	1.11	<5	390	<5	7.79	<1	33	99	276	5.11	10	3.15	1408	<1	<0.01	61	1170	22	<5	<20	106	<0.01	<10	88	<10	5	101
16	151753	9.2	0.76	<5	15	<5	1.78	<1	14	62	9980	2.38	<10	0.89	342	<1	0.06	15	2720	4	<5	<20	53	0.10	<10	47	<10	6	25
17	151754	5.8	0.94	<5	15	<5	1.65	<1	18	46	3188	4.14	<10	0.92	354	<1	0.08	14	3040	6	<5	<20	38	0.08	<10	105	<10	8	33
18	151755	8.8	0.44	<5	<5	<5	>10	<1	8	60	5192	0.95	<10	0.54	417	2	0.01	31	1620	8	<5	<20	63	0.09	<10	11	<10	4	13
19	151756	8.3	0.52	<5	20	<5	9.66	<1	9	55	8075	1.35	<10	0.67	386	1	0.02	33	1580	6	<5	<20	37	0.08	<10	23	<10	5	17
20	151757	0.9	1.32	115	80	<5	2.75	<1	15	45	162	1.34	<10	0.29	269	4	0.10	32	1290	12	<5	<20	59	0.07	<10	19	<10	7	16

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
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**QC DATA:**

**Resplit:**

1	151636	5.6	0.18	<5	25	<5	0.44	<1	24	110	7437	4.14	<10	0.23	268	5	0.01	19	520	2	<5	<20	6	0.04	<10	20	<10	4	23
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**Repeat:**

1	151636	5.6	0.17	<5	25	<5	0.41	<1	24	102	7676	4.02	<10	0.22	250	5	0.01	19	510	2	<5	<20	6	0.04	<10	20	<10	4	23
9	151644	24.2	0.30	<5	10	<5	4.06	<1	5	54	>10000	0.79	<10	0.43	333	2	<0.01	14	2050	<2	<5	<20	48	0.08	<10	1	<10	2	7

**Standard:**

GEO '04		1.4	1.53	55	140	<5	1.51	<1	18	50	86	3.33	10	0.90	587	<1	0.01	28	640	24	<5	<20	49	0.09	<10	60	<10	9	69
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**ECO TECH LABORATORY LTD.**

Jutta Jealouse  
B.C. Certified Assayer

JJ/jm  
df/368b  
XLS/04

## CERTIFICATE OF ASSAY AK 2004-369

**Standard Metals Exploration Ltd.**

38151 Clarke Drive

Box 1852

**Squamish, BC**

V0N 3G0

7-Jun-04

*No. of samples received: 20*

*Sample type: Rock*

**Project #: SMX04-Z**

**Shipment #: Not indicated**

*Samples submitted by: Dave Blann*

<b>ET #.</b>	<b>Tag #</b>	<b>Au (g/t)</b>	<b>Au (oz/t)</b>	<b>Cu (%)</b>
5	151640	3.06	0.089	2.49
8	151643	3.30	0.096	2.57
9	151644	3.25	0.095	1.85
11	151646			1.38
16	151753			0.98
20	151757	2.01	0.059	

**QC DATA:**

**Standard:**

SN16	9.00	0.262	
SH13	1.35	0.039	
CU106			1.41

JJ/jm  
XLS/04

**ECO TECH LABORATORY LTD.**

Jutta Jealouse

B.C. Certified Assayer

## CERTIFICATE OF ANALYSIS AK 2004-369

Standard Metals Exploration Ltd.

4-Jun-04

38151 Clarke Drive

Box 1852

Squamish, BC

V0N 3G0

No. of samples received: 20

Sample type: Rock

Project #: SMX04-Z

Shipment #: Not indicated

Samples submitted by: Dave Blann

ET #.	Tag #	Au (ppb)	Hg (ppb)	Pd (ppb)	Pt (ppb)
1	151636	40	245	<5	<5
2	151637	5	20	<5	<5
3	161638	15	1870	5	<5
4	151639	470	70	5	<5
5	151640	>1000	240	15	5
6	151641	30	5	<5	<5
7	151642	85	5	5	<5
8	151643	>1000	230	5	20
9	151644	>1000	210	5	<5
10	151645	35	70	<5	<5
11	151646	275	<5	5	<5
12	151647	365	30	<5	<5
13	151648	205	50	<5	<5
14	151751	10	5	<5	<5
15	151752	45	260	10	<5
16	151753	640	40	5	5
17	151754	770	30	<5	<5
18	151755	780	70	5	<5
19	151756	795	140	<5	<5
20	151757	>1000	15	<5	<5

### QC DATA:

#### **Repeat:**

1	151636	50	240	<5	<5
10	151645	35	65	<5	<5

#### **Resplit:**

1	151636		230		
2	151637	50		<5	<5

#### **Standard:**

GEO'04		140	-	<5	<5
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**ECO TECH LABORATORY LTD.**

Jutta Jealouse

B.C. Certified Assayer

JJ/kk  
XLS/04



From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6  
To Standard Metals

Acme file # A404645R Received: SEP 9 2004 \* 7 samples in this disk file.

Analysis: GROUP 7AR - 1.000 GM

ELEMENT Cu

SAMPLES %

C 151776	1.439
C 151780	1.823
C 151781	0.247
C 151782	0.723
C 151784	0.566
C 151785	0.842
STANDAR	0.566

3 PHONE(604)253-3158 FAX(604)253-1716 @ CSV TEXT FORMAT

From: ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 @ CSV TEXT FORMAT

To: Standard Metals

Acme file # 4404645 Received: AUG 16 2004 \* 26 samples in this disk file.

Analysis: GROUP 1DX - 15.00 GM

ELEMENT Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
SAMPLES ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
SI	0.1	0.6	0.6	1	<1	0.3	<1	<1	0.04	<5	<1	0.6	<1	2	<1	<1	1	0.07	<0.001	<1	1.5	<0.01	3	<0.01	1	0.01	0.347	<0.01	0.1	<0.01	4.6	0.4	0.24	6	<5	
C 151657	0.4	53.8	1.4	50	0.1	11.3	18.2	370	3.14	13.8	0.3	2.4	0.6	83	0.1	2.1	0.1	110	1.05	0.048	2	11.9	1.14	356	0.234	3	2.39	0.282	0.86	0.2	<0.01	4.6	0.4	0.24	6	<5
C 151658	3.6	279.3	4.9	34	1.5	2.8	7.9	291	3.87	6.3	1.6	10.4	3.2	11	0.2	0.1	24.3	46	0.23	0.055	3	5.3	0.63	59	0.046	2	1.2	0.038	0.36	1.8	0.01	3	0.5	2.53	4	<5
C 151659	0.6	265.1	1.7	46	0.1	15.9	18	452	2.86	3.5	0.1	1.3	0.1	138	0.1	0.1	0.2	84	1.25	0.103	1	31.6	1.09	17	0.113	4	1.1	0.03	0.16	0.3	0.01	3	<1	<0.05	4	<5
C 151660	1.3	5.7	1.3	24	<1	6.4	30.4	335	4.86	9.6	0.2	61.5	0.5	16	<1	0.1	0.2	54	0.64	0.06	2	12.3	0.77	41	0.042	2	1.4	0.056	0.2	1.5	0.02	3.1	0.1	3.53	5	1
C 151661	0.8	134.8	2.5	67	0.2	17.3	19.3	372	3.1	193.9	0.5	4.6	0.7	46	0.2	0.6	<1	90	1.27	0.123	6	22.9	0.96	103	0.159	12	1.69	0.056	0.09	0.3	0.01	3.1	<1	0.08	6	1
C 151770	1.2	74.3	14.2	66	0.5	2.3	13	567	2.51	3.2	0.5	4.8	1.1	44	0.2	0.3	0.4	52	0.84	0.084	3	3.5	0.47	77	0.081	2	1.35	0.119	0.11	1.1	0.01	1.3	0.1	0.55	4	<5
C 151771	0.3	5.9	3.2	23	<1	3.3	3.5	325	1.15	2.2	0.5	<5	1.7	27	<1	0.2	<1	18	0.19	0.036	5	5.3	0.21	175	0.017	2	0.54	0.049	0.17	0.4	<0.01	1.2	<1	<0.05	2	<5
C 151772	0.5	5.2	2.4	31	<1	2.8	3.7	356	1.16	1.6	0.9	<5	3.3	59	<1	0.1	<1	19	0.34	0.037	6	5.6	0.37	71	0.012	1	0.75	0.07	0.09	<1	0.04	1.2	<1	<0.05	4	<5
C 151773	1.7	94.4	5.2	89	0.2	30.6	23.7	889	4.64	6.8	0.6	<5	1.7	34	0.8	0.2	0.1	165	0.75	0.121	6	65	1.94	30	0.199	1	1.99	0.042	0.11	0.4	0.02	5.3	0.2	0.87	7	1.8
C 151774	6	102.2	10.5	188	0.3	34.5	20.4	279	3.23	54.4	1	<5	1.1	77	2.6	2.3	0.1	79	2.2	0.132	5	27.1	0.54	44	0.133	3	2.62	0.191	0.21	1	0.02	2.7	0.2	1.42	9	4.7
C 151775	1	98.4	1.9	38	0.1	14.7	14	364	3.44	6.3	0.6	0.7	0.9	62	<1	0.4	0.1	148	0.85	0.148	5	33.7	0.94	330	0.271	2	1.58	0.119	0.69	0.3	<0.01	2.6	0.1	0.49	5	0.6
C 151776	0.8	>10000	1.1	17	20.6	8.9	6.3	322	1.37	1.7	0.3	2219.8	0.1	73	0.5	0.3	7	56	2.32	0.147	1	81.3	0.62	8	0.122	<1	0.63	0.046	0.06	0.6	0.29	4.2	<1	<0.05	2	5
RE C 1517	0.9	>10000	1	16	20.1	9	6.2	315	1.34	1.6	0.3	2154.1	0.1	69	0.4	0.3	7	54	2.29	0.136	1	77.9	0.61	8	0.12	<1	0.63	0.045	0.06	0.6	0.31	3.8	<1	0.07	2	4.7
C 151777	0.4	8897.5	1	9	11	4.9	3.6	433	0.99	1.4	0.3	1112.4	0.1	139	0.5	0.2	4.2	37	9.58	0.11	1	43.4	0.4	6	0.091	<1	0.36	0.009	0.03	0.3	0.26	2.7	<1	<0.05	1	3.2
C 151778	0.2	388.5	0.9	15	0.3	5.2	4.4	638	0.85	3.6	0.4	34.6	<1	318	0.2	0.1	0.1	33	26.62	0.072	1	31.8	0.57	4	0.047	1	0.29	0.006	0.07	0.1	0.03	2.4	<1	0.11	1	<5
C 151779	0.2	158.9	1	12	0.1	5.3	4.7	833	1.16	4	0.4	10.4	0.1	301	0.1	<1	<1	44	23.41	0.085	1	51.4	0.54	4	0.07	1	0.3	0.011	0.1	0.1	0.02	2.2	<1	0.14	1	<5
C 151780	0.6	>10000	2.5	20	5.5	14.8	8.1	578	1.65	1.9	0.2	554.3	0.1	117	0.3	0.2	3.9	52	7.74	0.106	1	158.3	0.88	11	0.123	<1	0.62	0.021	0.09	0.3	0.28	4.1	<1	0.57	2	3.1
C 151781	0.5	2344.5	1.2	33	2.6	10.4	10.4	440	1.88	3.5	0.3	325.4	0.3	123	0.2	0.5	1.2	77	6.33	0.152	2	50.1	0.8	19	0.13	<1	0.76	0.031	0.12	0.4	0.15	3.1	<1	0.2	3	1.4
C 151782	0.6	6789	0.8	24	11.1	15.4	10.4	378	1.57	1.5	0.2	1312.5	0.1	67	0.3	0.3	3.6	60	2	0.157	1	113.5	1.08	14	0.126	<1	0.87	0.048	0.14	0.4	0.43	4.5	<1	0.19	3	5.2
C 151783	0.2	1201.1	0.9	25	0.9	12.8	9.6	530	1.76	3.1	0.3	157.4	0.2	220	0.2	0.2	0.5	67	12.69	0.119	1	103	0.87	22	0.104	<1	0.65	0.02	0.18	0.2	0.44	3	<1	0.12	2	0.8
C 151784	0.6	5359	1.1	15	7	8.2	6.1	548	1.23	1.8	0.5	910.2	0.2	181	0.3	0.2	2.8	44	9.49	0.132	1	59.9	0.56	12	0.091	<1	0.53	0.014	0.12	0.5	0.38	3	<1	0.18	2	3.4
C 151785	0.5	8074.7	1.6	15	10.2	7.1	6.1	482	1.26	2.4	0.4	1715.1	0.1	146	0.5	0.3	3.1	48	7.47	0.142	1	67.7	0.64	8	0.106	1	0.55	0.022	0.04	0.4	0.96	3.9	<1	0.06	2	3.6
C 151786	4	130.3	2.7	74	0.5	21.6	12.4	482	3.31	<5	0.3	2.2	1.4	76	0.2	0.1	0.1	77	1.3	0.059	4	21.7	0.82	88	0.182	<1	2.37	0.331	0.75	0.7	<0.01	7.3	0.5	1.53	7	5.3
C 151787	0.8	130.2	10.7	80	0.3	26.9	16.1	311	2.01	108.8	0.5	15.7	0.8	32	0.5	0.9	<1	39	1.2	0.088	5	36.3	0.68	55	0.121	60	1.24	0.056	0.09	0.3	0.03	2.5	<1	0.11	4	0.7
C 151788	5.9	108	202.7	298	0.2	66.5	43	2466	7.14	87.2	0.9	4.7	1	19	1	2.2	0.1	138	0.39	0.118	10	168.3	1.55	150	0.017	4	2.22	0.012	0.25	<1	0.08	13.3	0.1	<0.05	6	0.5
STANDAR	12.5	145.7	25.2	140	0.3	24.5	12.1	778	3	18.8	6	45.1	2.6	46	5.4	3.7	5.9	64	0.72	0.095	12	187.1	0.69	135	0.096	17	1.98	0.031	0.14	4.7	0.18	3.3	1.1	0.06	6	5

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 @ CSV TEXT FORMAT

To Standard Metals PROJECT Hawk

Acme file # A500084 Received: JAN 5 2005 \* 4 samples in this disk file.

Analysis: GROUP 1DX - 15 GM

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
C 151689	0.7	5181.2	2.6	5	6.5	3	1.1	59	0.48	<.5	<.1	828.8	<.1	2	0.1	0.1	0.4	14	0.17	0.007	<.1	30.2	0.06	6	0.009	1	0.09	0.005	0.02	4.6	3.52	0.6	<.1	0.09	<.1	4.4
C 151690	1.8	>10000	1.7	19	17.9	3.6	5.7	427	2.1	<.5	0.2	8718	0.1	71	0.5	0.1	8.8	79	1.98	0.182	1	18.3	0.36	81	0.153	1	0.56	0.039	0.08	0.9	2.12	4.4	<.1	0.37	2	21.2
C 151691	0.2	105.1	2.2	57	0.1	13.5	13.7	776	2.23	2.2	0.3	17.9	0.2	244	0.2	0.4	<.1	79	4.69	0.158	2	70.8	0.92	52	0.141	1	1.31	0.047	0.08	1	0.02	4.2	<.1	0.11	4	<.5
ANDARD D	11.2	125.3	28.7	145	0.3	25.3	10.4	728	2.86	21.3	6.6	47	3	39	5.8	3.3	4.9	56	0.87	0.072	15	178.3	0.58	169	0.083	17	1.96	0.074	0.16	3.3	0.23	3.2	1.6	0.06	6	4.3