

**BRITISH COLUMBIA**  
**PROSPECTORS ASSISTANCE PROGRAM**  
**MINISTRY OF ENERGY AND MINES**  
**GEOLOGICAL SURVEY BRANCH**

PROGRAM YEAR: 2001/2002

REPORT #: PAP 01-18

NAME: MARTIN PETER

Rec'd Jan 8, 2002

MINISTRY OF  
ENERGY AND MINES

Rec'd JAN 15 2002

File \_\_\_\_\_

PRINCE GEORGE, B.C.

Results of the 2001 Prospectors Assistance Program



View of 2-Sisters Mountain Looking North From RK01-21 Sample Site

Martin C. Peter FMC# 121237  
December 31, 2001

A total of 32 days were spent in the field in **2001** including necessary travel time. In general terms, four areas were examined in different parts of the province during the PAP program that was carried out during the season.

Broadly, these four areas are:

- 1) The region to the southeast of Clearwater bordering the North Thompson River.
- 2) Investigations in the Bowron River basin south of the McBride highway.
- 3) Prospecting in the Nechako Plateau region to the Southwest of Vanderhoof.
- 4) Preliminary prospecting to the north of Fort St. James off of the Germansen road.

During the course of the program, a total of 23 rock samples, 86 soil samples and 1 silt sample were taken and analyzed. The most intensive examination was grid-based and was carried out over a subcropping zone of quartz-carbonate veining within basalts and chert of the Permian Antler Formation just to the south of Taspai Creek between the Bowron and Willow rivers. The other areas were covered with general road-based prospecting and in the cases of the North Thompson and Nechako Plateau regions consisted of follow-up investigations from previous years while those in the Fort St. James were of a preliminary nature. In the remainder of this report, each of these areas will be discussed in greater detail along with results that were deemed to be of significance.

### **Clearwater Area**

This area was mainly examined to provide follow-up to a float discovery made last summer (2000) in the headwater region of Russel Creek, which is accessed from the **Russel Creek Main** which branches from the Blackpool road just 5 km to the south of Clearwater. This gated logging road network is an amalgam of previously separate roads and is now quite extensive with branches reaching the headwaters of Russel creek, Rennie and Axel creeks and south to the microwave tower on McCarthy mountain and the edge of the plateau to the north of Joseph creek. This area is underlain by the Devonian to Permian Fennel Formation of

the Slide Mountain Group, and such is the potential host for VMS deposits like that found on Chu Chua mountain to the south. The Russel creek float occurrence is adjacent to a recent logging road cut in the western headwaters of Russel creek (the NTS coordinates are 51°38', 120°02'). Float consists mostly of semi-angular to semi-rounded pieces of chert and some pieces of highly altered basalt? with disseminated and semi-massive pyrite and chalcopyrite. Four rock samples and a total of 15 soil samples were taken over a distance of 350m along the road in an effort to trace any anomalous zones. All the rocks were anomalous with respect to copper (highest 1995 ppm Cu) and silver (highest 21.4 ppm Ag), while the soil samples returned only two elevated values for zinc. This suggests that the float is not from a proximal source but has been transported by glacial activity probably from a source to the east or northeast, roughly parallel to the North Thompson river. Since further future road building is planned for this immediate area, it remains interesting enough to monitor as logging activity progresses towards the south and east.

Other areas examined in the Clearwater region were the new roads off of the McCarthy microwave road to the north of Joseph creek, as well as the McDougal/Hasheak FSR where a soil from a gossanous area (in Eagle Bay rocks) was taken which returned 146 ppm Cu and 8.58% Fe.

### **Bowron River Area**

Investigations in this region centered on the northern border of Spring mountain just to the south of Taspai creek and the Coalmine road (NTS coordinates 53°55', 122°05') The discovery of this area was made during the 1999 PAP program, locating a linear subcropping quartz carbonate zone at the contact between chert and basalt (of the Mississippian Antler Formation of the Slide Mountain Group), just off of the Coalmine road which is south of Highway 16. This is the **Taspai Creek** area described in the 1999 final PAP report. The occurrence is found in a recent clearcut on a moderately steep slope which faces north, and access is gained from a road branching off of the Coalmine Road. The clearcut is elongated in the ENE direction and there appears to be two parallel

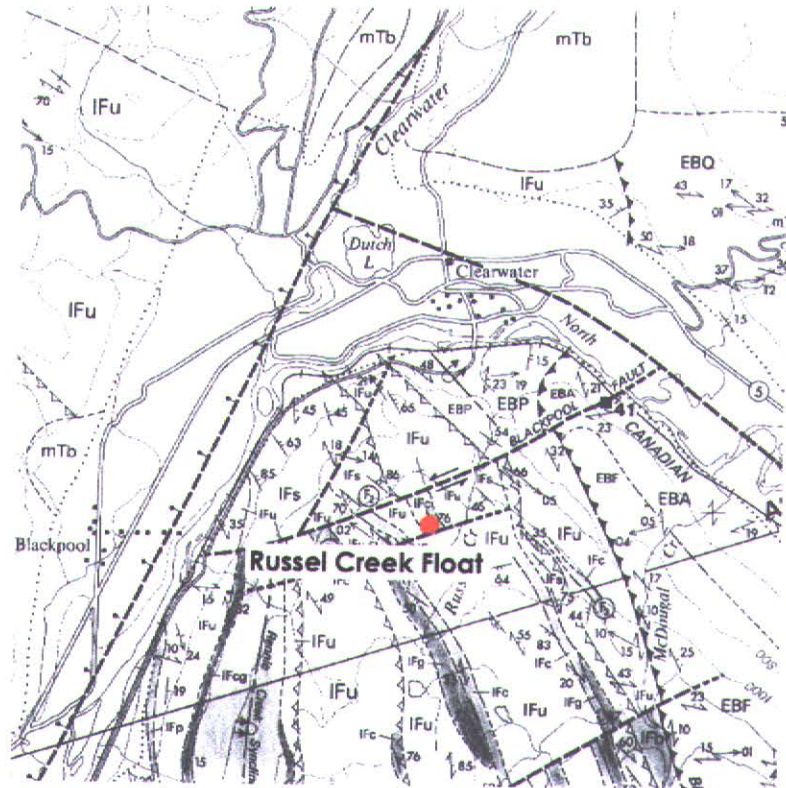


Figure 1: Location of Russel Creek float

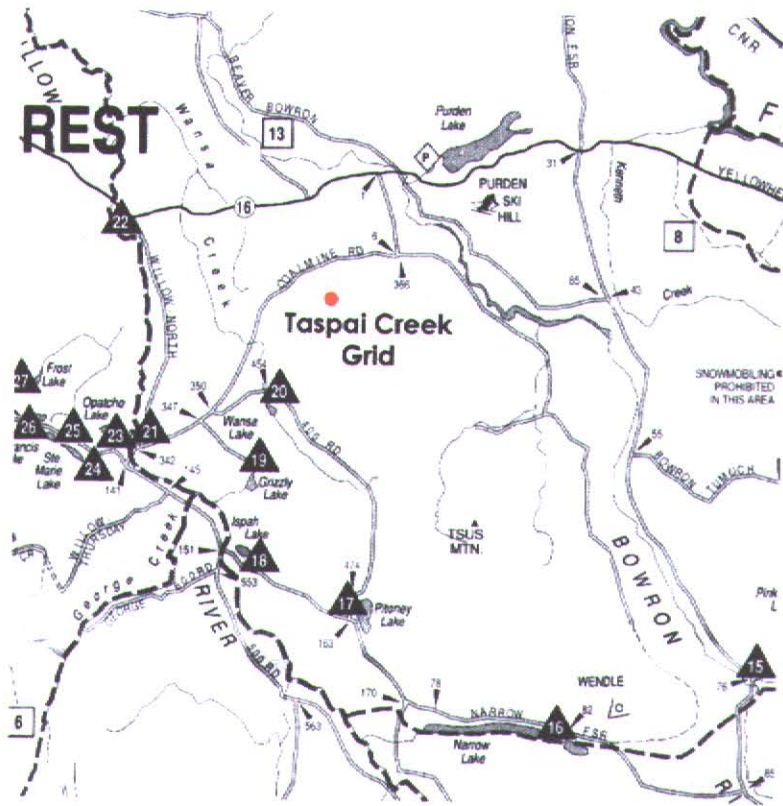
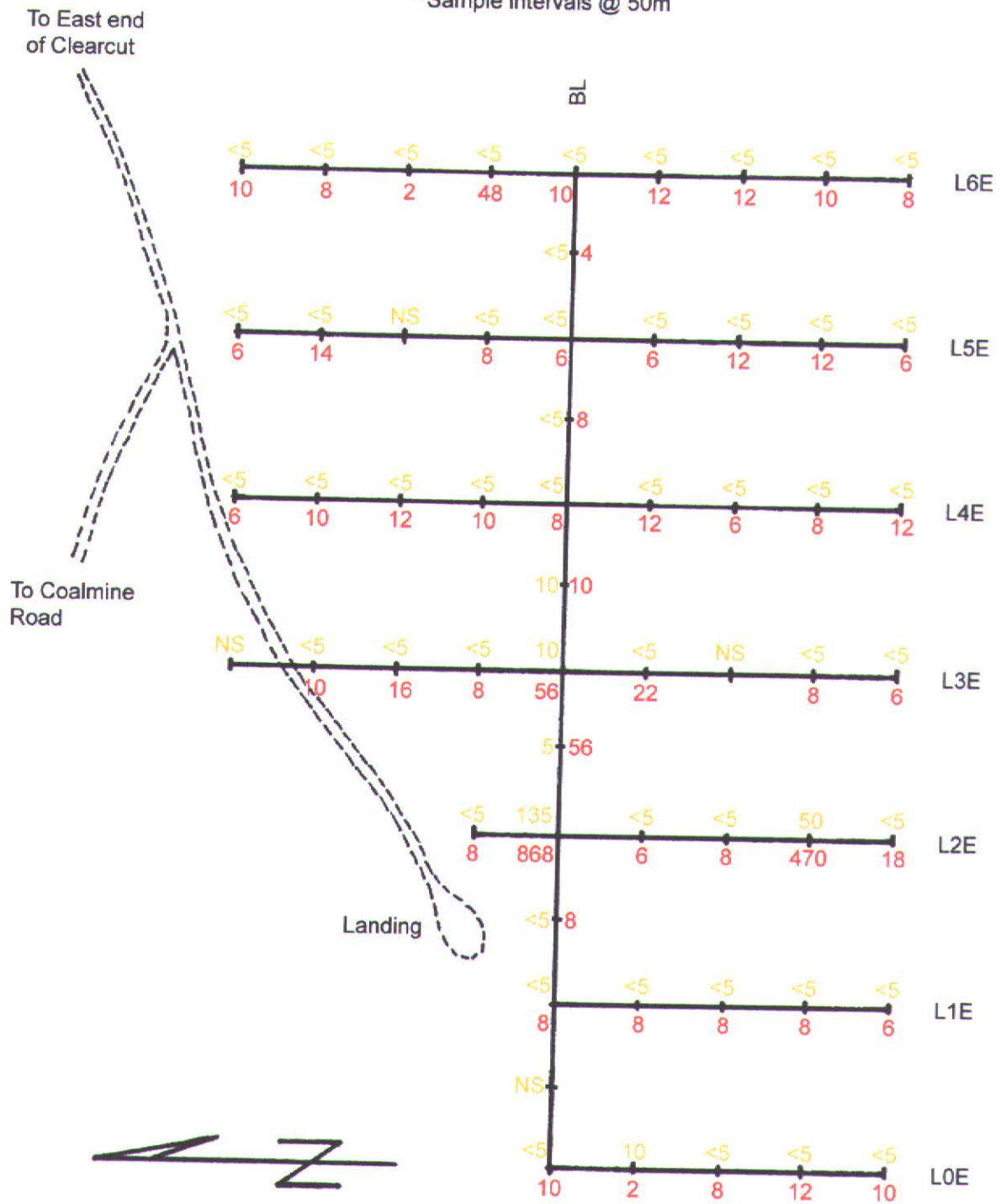


Figure 2: Location of Taspai Creek Grid

Figure 3: Gold and Arsenic Geochemical Results for Taspai Creek Soil Grid

\* Sample intervals @ 50m



<5 - Au (ppb)

10 - As (ppm)

zones of mineralization trending roughly 280-290, one located near the eastern end of the clearcut and the other more towards the western side (this zone was the subject of a grid-based survey in 2001). Both zones are characterized by orange-red soils along with subcropping pieces of Fe-Carb altered rock and pieces of quartz which are similarly altered. The quartz appears to take the form of stringers and stockwork within the host rock although this cannot be confirmed due to the lack of outcrop. In the quartz, one can rarely see fine acicular masses of arsenopyrite although much of the pyrite seems to have been weathered from the rock. In the 1999 sampling results it was discovered that the western zone carried sporadic anomalous levels of gold (up to 1.5 ppm) from pieces of subcropping float and from the limited number of soils taken it became evident that further investigations were warranted. In the 2001 field season a grid was flagged over the trace of the zone and samples were taken every 50m along north-south lines branching off of an east-west baseline.

The results of this program were generally disappointing in that only 2 stations gave anomalous results for gold (high of 135 ppb @ BL2E) and good arsenic anomalies were also limited to these two stations (high of 868 ppm). Much better results were obtained from preliminary results from the 1999 program; however, these results were from "grab" soils taken from red colored exposed patches over the zone. From the 2001 results it appears that the zone, although containing sporadic gold levels, lacks continuity, definition and consistency and therefore further work would not be recommended.

Other areas that were looked at in the Bowron region were: new roads south and to the east of Stoney lake, new roads on 24F on the west side of Willow river, closer examination (and soiling) of a mineralized area to the south of Atan and Chisel lakes and sampling near 2-Sisters mountain.

The road based soil sampling south of Atan lake failed to turn up anything more of interest, but the rock and soil sample from the rusty draw south of the lake at the base of the 2-Sisters mountain proved to be anomalous with respect to Cu. Here, RK01-21 returned 2050 ppm Cu and S1S01 (soil) returned >15% Fe and 509 ppm Cu. Also prospected up a reclaimed road which wound its way up to a

large clearcut on the north side of Mt. Tinsdale which is very close to the western boundary of the Antler Formation, but saw nothing of interest.

### **Nechako Plateau Area**

Locations examined in this region ranged from the area around Marilla to roads branching off of the Kluskus-Malaput road southwest of Vanderhoof. Much of this region was prospected by the author in 1994, so the current investigation benefited from knowledge gained previously and new road building activity was monitored. Parts of this region (especially to the west) are suffering from an extensive beetle infestation and this will in the near future open up large areas for exploration when logging companies begin their salvage operations.

The broad area around Fawnie Nose, Johnny lake, Mt. Davidson, Kuyakuz lake and Chutanli lake was briefly prospected, with emphasis placed on the examination of newer roads and cutblocks. Rock and soil sampling was done to the west of the Kluskus Camp on a recently exposed hill which holds altered intrusive and Hazelton rocks. Because of the proximity to the CHU deposit, some time here was spent sampling and prospecting, however, nothing of interest was uncovered.

The most interesting discovery was made in a new network of roads off of km 26.4 of the Malaput-Kluskus road just to the north of Johnny lake. The area of mineralization is in a cleft which the road passes through. On the south side the rock is unmineralized diorite while adjacent to the road on the north side the diorite and andesite is brecciated and pyritic. Mineralization is exposed along the road for approximately 100m. Along this stretch, 4 rock samples were taken, the best result being from RK01-12, which gave 1185 ppb Au, 6.8 ppm Ag, 436 ppm As and 427 ppm Cu. RK01-14 gave 90 ppb Au, 6.4 ppm Ag, 830 ppm Cu and 1460 Zn.

### **Germansen Road Area**

Road networks that were prospected in this area include the Inzana Main, the Germansen-Cripple FSR, the Germansen-Hat FSR and the Mcleod Tsilcoh FSR.



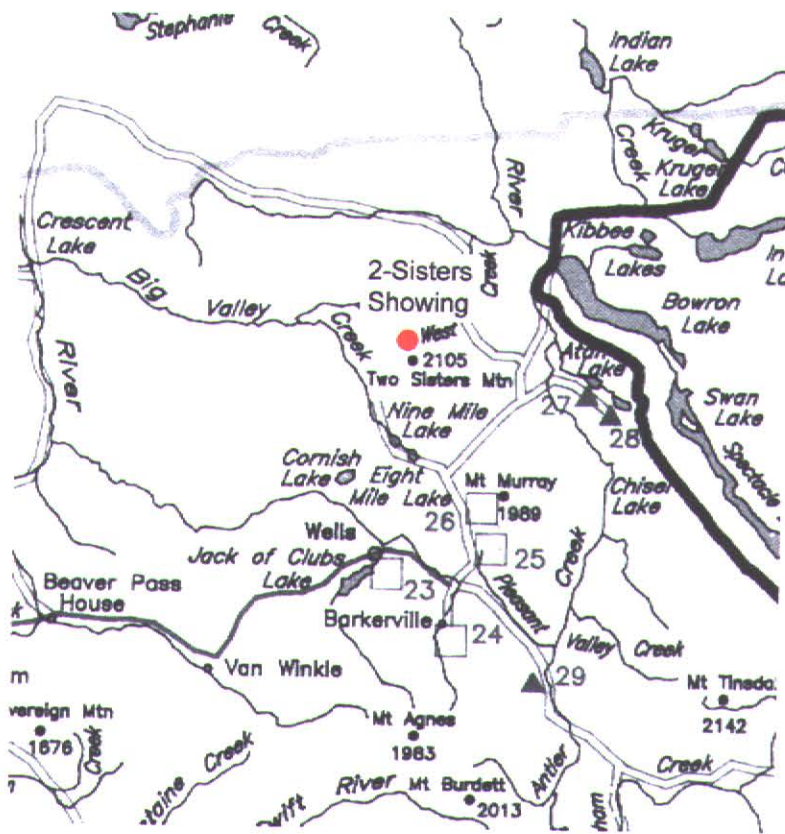


Figure 4: Location of 2-Sisters Showing

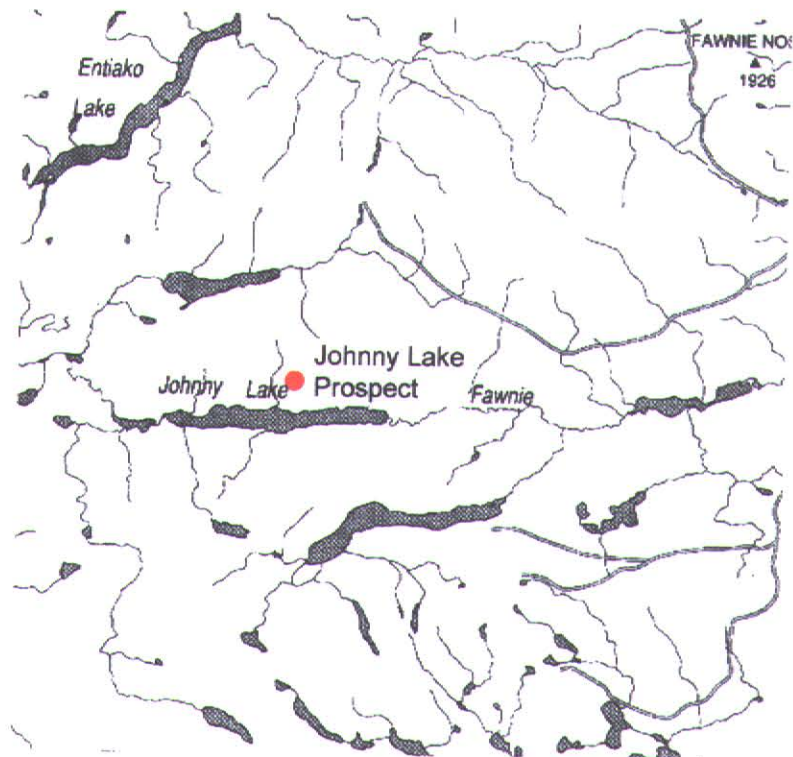


Figure 5: Location of Johnny Lake Prospect

The Inzana Main branches off of the Germansen road at km 55, while the Hat FSR branches off at km 39. Much of the area, especially to the east of the Germansen road suffers from a deep layer of overburden although in many of the areas around Inzana and Tezzeron lakes, hilly topography provides good exposure. Areas of note include the west slope of Chulus mountain where new logging on the hillside has uncovered a large mineralized area in intrusive and country rock where limited sampling returned low but anomalous levels of Cu and Mo. No sampling activity was apparent or visible, so initially it was thought that the ground was open. However, further investigation made evident that the alteration zone was already staked by R. Haslinger the previous late summer as the BRAD claims.

Along the Tezzeron lake road at km 5.3, a series of quartz-calcite veinlets in hornblende diorite host rock were sampled which returned 375 ppb Au, 1350 ppm As, and 1540 ppm Zn (RK01-18).

### **Conclusion**

A diverse number of areas were prospected over the course of the 2001 PAP program, in response to follow-up investigations from areas discovered in previous years and to examine areas with new logging and roadbuilding activity. The most interesting discoveries were made in the Russel creek area near Clearwater and off of the Malaput road north of Johnny lake. Both of these areas warrant further limited investigations as economic conditions dictate. The copper occurrence in chert of the Antler Formation near 2-Sisters mountain is also interesting, although it may be close or within the boundary of a protected area. Proper examination here could not be made because of the steep terrain at the site.

### List of Rock Samples and Descriptions:

- RK01-04: Chert, gray-white, dissem. Py with cpy on fracture surfaces. Float.
- RK01-05: White to dark grey chert. Py and cpy. Float.
- RK01-06: Bleached and sheared Ba? Or chert. Semi-massive weathered py and some cpy. Float.
- RK01-07: Bleached Ba? Dissem py-cpy on fracture surfaces. Float.
- RK01-08: Altered argillite, heavy pyrite-limonite. Outcrop on side of road. 350m up rd 190B off of Russel main.
- RK01-09: Pyritic chert. From cutblock EJ3 70B @ end of road 6700 in Taspai area.
- RK01-10: From branch road off of Kluskus-Malaput road @ 106.5km. Hill above road on clearcut. Contact between Jurassic Hazelton Group (andesites and seds.) and Capoose Batholith. Altered and pyritic. Mo?
- RK01-11: Same as above.
- RK01-12: From new side road off of Malaput road @ 135 km. Heavy coarse cubic py in andesite or diorite. Just to north of Johnny lake. Outcrop.
- RK01-13: As above. Some quartz, rock is vuggy.
- RK01-14: As above. masses of coarse cubic pyrite.
- RK01-15: As above. Vugs lined with small well developed quartz crystals with some hematitic staining.
- RK01-16: From CP 304-3 off of Red road. Altered and pyritic intrusive. Abundant float.
- RK01-17: Same as above.
- RK01-18: North of Ft. St. James. Quartz-calcite veinlets in hornblende diorite. Veinlets are vuggy and 2-3" thick. Sph?
- RK01-19: Altered and pyritic andesite or chert? Adjacent to a fault zone. Outcrop in cutblock FJ3 CO1 on new road on Germansen-Hat FSR. Hillside newly logged exposing altered intrusive and country rock.
- RK01-20: As above. From fault gouge.
- RK01-21: Bowron area. Up towards 2-sisters mountain, on south slope of small lake. Flat bedded chert in a small draw. Layer is very rusty, could not reach it due to steep slope. Abundant ferricrete. Sampled a rusty boulder below.
- RK01-22: From Taspai creek grid. Brecciated fragments of quartz, calcite and silicified basalt. Few sulphides. Some small open vuggy spaces.
- RK01-23: Location as above. Coarse quartz veins to 1" with vuggy open margins. Smaller cross-cutting veins in silicified basalt.
- RK01-24: As above. Pale buff silicified basalt? with cross-cutting qtz veinlets to 1/2". Disseminated coarse py in rock to 3%.
- RK01-25: Marilla area. Loose spongy ash tuff. Limonitic with lots of open spaces. Grey quartz eyes.
- RK01-26: Marilla area. Altered limonitic flow-banded rhyolite. Open vugs quartz lined.

### D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

### SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the Freedom of Information Act.

Name

MARTIN PETER

Reference Number 01/02-P29

### LOCATION/COMMODITIES

Project Area (as listed in Part A) \_\_\_\_\_ MINFILE No. if applicable \_\_\_\_\_

Location of Project Area NTS \_\_\_\_\_ Lat \_\_\_\_\_ Long \_\_\_\_\_

Description of Location and Access \_\_\_\_\_

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

Main Commodities Searched For Cu, Au, Ag.

Known Mineral Occurrences in Project Area \_\_\_\_\_

### WORK PERFORMED

1. Conventional Prospecting (area) \_\_\_\_\_
2. Geological Mapping (hectares/scale) \_\_\_\_\_
3. Geochemical (type and no. of samples) \_\_\_\_\_
4. Geophysical (type and line km) \_\_\_\_\_
5. Physical Work (type and amount) \_\_\_\_\_
6. Drilling (no. holes, size, depth in m, total m) \_\_\_\_\_
7. Other (specify) \_\_\_\_\_

FEEDBACK: comments and suggestions for Prospector Assistance Program \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Project : 2001  
 Comments: ATTN: MARTIN PETER

Page No : 1-A  
 Total Pages : 1  
 Certificate Date: 28-AUG-2001  
 Invoice No. : I0122873  
 P.O. Number :  
 Account : HUW

## CERTIFICATE OF ANALYSIS A0122873

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
RK01-04	94139402	0.98	-----	1.2	0.15	26	< 10	20	< 0.5	< 2	0.03	< 0.5	4	93	1730	7.27	< 10	< 1	0.04	< 10
RK01-05	94139402	0.56	-----	2.4	0.87	2	< 10	40	< 0.5	4	0.92	< 0.5	14	79	1680	8.46	< 10	1	0.01	< 10
RK01-06	94139402	0.40	-----	21.4	3.18	18	< 10	20	< 0.5	6	0.16	< 0.5	67	132	1995	10.45	< 10	< 1	0.02	< 10
RK01-07	94139402	0.78	-----	1.8	1.67	6	< 10	90	< 0.5	< 2	0.45	< 0.5	17	105	511	4.68	< 10	< 1	0.05	< 10
RK01-08	94139402	0.58	-----	0.8	0.97	6	< 10	70	< 0.5	4	0.02	< 0.5	7	37	149	2.96	< 10	< 1	0.06	< 10
RK01-09	94139402	1.26	< 5	< 0.2	0.20	16	< 10	50	< 0.5	< 2	0.01	< 0.5	4	66	216	2.64	< 10	< 1	0.04	< 10
RK01-10	94139402	1.42	< 5	< 0.2	1.11	2	< 10	60	< 0.5	< 2	0.05	< 0.5	< 1	35	6	0.79	< 10	< 1	0.62	< 10
RK01-11	94139402	1.04	< 5	< 0.2	0.36	< 2	< 10	50	< 0.5	< 2	0.08	< 0.5	1	65	3	2.14	< 10	1	0.30	< 10
RK01-12	94139402	1.78	1185	6.8	2.57	436	< 10	10	0.5	6	0.52	< 0.5	127	29	427	12.65	10	1	0.05	< 10
RK01-13	94139402	1.82	120	4.4	3.77	200	< 10	10	0.5	16	0.74	1.5	98	21	791	14.20	10	1	0.10	< 10
RK01-14	94139402	1.02	90	6.4	1.36	148	< 10	< 10	1.0	16	0.34	8.5	161	18	830	>15.00	20	< 1	0.02	< 10
RK01-15	94139402	2.24	15	0.2	2.44	12	< 10	30	< 0.5	4	0.46	2.0	5	50	30	3.48	< 10	< 1	0.08	< 10
RK01-16	94139402	0.92	< 5	< 0.2	3.60	10	< 10	130	< 0.5	< 2	2.00	< 0.5	< 1	5	13	3.22	< 10	< 1	0.04	< 10
RK01-17	94139402	1.34	< 5	< 0.2	3.43	< 2	< 10	60	< 0.5	< 2	1.58	< 0.5	< 1	3	23	3.54	10	< 1	0.07	< 10
RK01-18	94139402	1.70	375	1.6	0.33	1350	< 10	30	< 0.5	< 2	4.06	12.0	21	32	188	5.99	< 10	< 1	0.04	< 10
RK01-19	94139402	2.26	5	0.4	1.41	6	< 10	20	< 0.5	< 2	0.62	< 0.5	17	52	778	7.58	< 10	< 1	0.19	< 10
RK01-20	94139402	1.44	10	0.4	0.63	6	< 10	40	< 0.5	< 2	0.17	< 0.5	5	16	166	5.22	< 10	< 1	0.05	< 10
RK01-21	94139402	2.02	< 5	0.2	2.45	< 2	< 10	40	< 0.5	< 2	0.15	< 0.5	12	81	2050	6.31	10	< 1	< 0.01	< 10
RK01-22	94139402	1.88	35	< 0.2	0.15	140	< 10	50	< 0.5	< 2	13.40	< 0.5	8	23	10	4.08	< 10	< 1	0.01	< 10
RK01-23	94139402	1.88	50	< 0.2	0.15	116	< 10	30	< 0.5	< 2	2.18	< 0.5	8	40	10	2.51	< 10	< 1	0.04	< 10
RK01-24	94139402	1.98	10	< 0.2	0.32	38	< 10	130	< 0.5	< 2	5.33	< 0.5	25	5	16	5.90	< 10	< 1	0.06	< 10
RK01-25	94139402	1.48	< 5	< 0.2	0.63	2	< 10	170	< 0.5	< 2	0.17	< 0.5	1	15	2	1.41	< 10	< 1	0.24	10
RK01-26	94139402	1.82	< 5	< 0.2	0.25	< 2	< 10	60	< 0.5	< 2	0.05	< 0.5	< 1	13	< 1	0.73	< 10	< 1	0.11	10

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Page No. : 1-B  
 Total Pages : 1  
 Certificate Date: 28-AUG-2001  
 Invoice No. : I0122873  
 P.O. Number :  
 Account : HUW

Project : 2001  
 Comments: ATTN: MARTIN PETER

## CERTIFICATE OF ANALYSIS A0122873

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RK01-04	94139402	0.02	25	< 1	< 0.01	23	50	6	7.24	< 2	< 1	3	0.02	< 10	< 10	2	10	18
RK01-05	94139402	0.64	160	13	< 0.01	27	580	22	4.60	4	< 1	19	0.01	< 10	10	41	< 10	22
RK01-06	94139402	3.01	520	1	< 0.01	61	240	52	9.71	2	< 1	6	0.16	< 10	10	80	20	76
RK01-07	94139402	1.42	580	< 1	0.03	46	580	16	2.09	8	2	7	0.31	< 10	< 10	62	< 10	90
RK01-08	94139402	0.84	115	16	< 0.01	17	90	14	2.65	4	< 1	2	0.01	< 10	< 10	9	< 10	18
RK01-09	94139402	0.02	115	< 1	< 0.01	28	150	< 2	0.03	14	7	5	< 0.01	< 10	< 10	32	< 10	84
RK01-10	94139402	0.82	55	12	0.04	1	300	< 2	0.04	8	4	4	0.05	< 10	< 10	50	< 10	22
RK01-11	94139402	0.08	15	5	0.04	1	1210	2	0.98	< 2	1	21	< 0.01	< 10	< 10	8	< 10	< 2
RK01-12	94139402	1.69	740	< 1	0.06	13	750	2	7.62	8	5	22	0.05	< 10	20	99	10	58
RK01-13	94139402	2.48	1490	< 1	< 0.01	18	1100	< 2	9.64	10	4	9	0.05	< 10	30	117	10	272
RK01-14	94139402	0.69	465	3	< 0.01	13	310	< 2	>10.00	6	< 1	11	0.01	< 10	50	37	30	1460
RK01-15	94139402	1.93	1260	3	< 0.01	6	950	2	0.11	4	3	8	0.03	< 10	< 10	72	< 10	286
RK01-16	94139402	0.29	185	3	0.03	< 1	590	< 2	0.16	2	6	116	0.12	< 10	< 10	72	< 10	42
RK01-17	94139402	0.41	290	1	0.03	< 1	740	6	0.59	< 2	8	87	0.18	< 10	< 10	79	< 10	46
RK01-18	94139402	0.16	440	4	0.03	5	490	26	2.60	20	4	258	< 0.01	< 10	< 10	13	< 10	1540
RK01-19	94139402	0.50	185	72	0.15	90	760	14	5.03	< 2	11	33	0.09	< 10	< 10	137	10	38
RK01-20	94139402	0.11	250	561	0.03	6	910	2	0.12	< 2	7	46	0.06	< 10	< 10	47	< 10	20
RK01-21	94139402	1.16	1105	238	< 0.01	38	770	20	0.48	< 2	5	11	0.10	< 10	< 10	204	< 10	32
RK01-22	94139402	6.28	1600	3	< 0.01	22	270	< 2	0.06	< 2	10	182	< 0.01	< 10	< 10	51	< 10	14
RK01-23	94139402	0.83	540	1	< 0.01	15	170	< 2	0.07	2	7	187	< 0.01	< 10	< 10	16	< 10	12
RK01-24	94139402	2.63	1185	< 1	< 0.01	19	530	< 2	0.26	< 2	19	188	< 0.01	< 10	< 10	74	< 10	38
RK01-25	94139402	0.17	405	< 1	0.04	1	380	< 2	< 0.01	< 2	4	15	0.06	< 10	< 10	20	< 10	30
RK01-26	94139402	0.07	345	1	0.03	< 1	70	6	< 0.01	< 2	2	8	0.05	< 10	< 10	8	< 10	48

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Project : 2001  
 Comments: ATTN: MARTIN PETER

Page No. : 1-A  
 Total Pages : 3  
 Certificate Date: 28-AUG-2001  
 Invoice No. : I0122871  
 P.O. Number :  
 Account : HUW

## CERTIFICATE OF ANALYSIS A0122871

SAMPLE	PREP CODE	Weight Au ppb		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
		Kg	FA+AA																	
RUSS01-0+00	94069407	0.46	-----	< 0.2	0.85	24	< 10	690	< 0.5	< 2	0.10	< 0.5	30	24	21	4.77	< 10	< 1	0.02	< 10
RUSS01-0+25	94069407	0.32	-----	0.4	2.45	14	< 10	360	< 0.5	< 2	0.19	< 0.5	17	36	32	2.54	< 10	< 1	0.05	< 10
RUSS01-0+50	94069407	0.32	-----	< 0.2	1.56	8	< 10	430	< 0.5	2	0.15	< 0.5	15	28	25	1.99	< 10	< 1	0.04	< 10
RUSS01-0+75	94069407	0.40	-----	0.4	2.51	18	< 10	320	< 0.5	< 2	0.24	< 0.5	18	32	57	2.51	< 10	< 1	0.04	< 10
RUSS01-1+00	94069407	0.44	-----	0.2	2.34	30	< 10	140	< 0.5	< 2	0.17	< 0.5	16	40	49	2.67	< 10	< 1	0.03	< 10
RUSS01-1+25	94069407	0.42	-----	0.2	2.21	24	< 10	200	< 0.5	< 2	0.22	< 0.5	19	41	63	2.54	< 10	< 1	0.03	< 10
RUSS01-1+50	94069407	0.30	-----	0.4	2.77	16	< 10	170	< 0.5	4	0.13	< 0.5	13	35	29	2.28	< 10	< 1	0.04	< 10
RUSS01-1+75	94069407	0.42	-----	0.2	1.87	12	< 10	200	< 0.5	< 2	0.20	< 0.5	13	35	20	1.91	< 10	1	0.04	< 10
RUSS01-2+00	94069407	0.26	-----	0.4	2.66	32	< 10	240	< 0.5	< 2	0.13	< 0.5	14	20	16	1.86	< 10	< 1	0.03	< 10
RUSS01-2+25	94069407	0.32	-----	0.2	2.31	20	< 10	180	< 0.5	< 2	0.22	< 0.5	15	28	18	2.07	< 10	< 1	0.05	< 10
RUSS01-2+50	94069407	0.36	-----	0.2	3.80	36	< 10	200	< 0.5	< 2	0.16	< 0.5	15	34	53	2.38	< 10	< 1	0.03	< 10
RUSS01-2+75	94069407	0.32	-----	0.2	3.06	22	< 10	270	< 0.5	2	0.16	< 0.5	21	41	55	2.91	< 10	1	0.07	< 10
RUSS01-3+00	94069407	0.38	-----	< 0.2	2.08	14	< 10	180	< 0.5	2	0.21	< 0.5	15	45	45	2.33	< 10	1	0.03	< 10
RUSS01-3+25	94069407	0.32	-----	0.2	2.14	20	< 10	170	< 0.5	6	0.18	< 0.5	12	45	44	2.29	< 10	< 1	0.04	< 10
RUSS01-3+50	94069407	0.42	-----	< 0.2	2.13	10	< 10	150	< 0.5	< 2	0.23	< 0.5	11	42	41	2.11	< 10	1	0.03	< 10
TAS01-BL0+00E	94069407	0.36	< 5	< 0.2	2.62	10	< 10	110	< 0.5	2	0.21	< 0.5	13	59	20	3.70	< 10	< 1	0.02	< 10
TAS01-BL1+00E	94069407	0.32	< 5	< 0.2	1.55	8	< 10	150	< 0.5	< 2	0.37	< 0.5	9	48	23	2.44	< 10	< 1	0.03	< 10
TAS01-BL1+50E	94069407	0.44	< 5	< 0.2	1.73	8	< 10	150	1.0	< 2	0.24	< 0.5	19	106	22	7.04	< 10	1	0.03	< 10
TAS01-BL2+00E	94069407	0.40	135	< 0.2	0.96	868	< 10	120	1.0	< 2	0.57	< 0.5	31	50	63	11.55	< 10	< 1	0.04	< 10
TAS01-BL2+50E	94069407	0.50	5	< 0.2	1.24	54	< 10	200	< 0.5	< 2	0.31	< 0.5	19	59	27	5.13	< 10	< 1	0.02	< 10
TAS01-BL3+00E	94069407	0.46	10	< 0.2	1.14	56	< 10	150	0.5	< 2	0.17	< 0.5	15	67	57	11.45	< 10	< 1	0.01	< 10
TAS01-BL3+50E	94069407	0.40	10	< 0.2	2.43	10	< 10	340	< 0.5	< 2	0.39	< 0.5	13	95	13	5.49	< 10	< 1	0.04	< 10
TAS01-BL4+00E	94069407	0.44	< 5	< 0.2	1.75	8	< 10	170	< 0.5	6	0.40	< 0.5	14	63	17	3.51	< 10	< 1	0.02	< 10
TAS01-BL4+50E	94069407	0.46	< 5	< 0.2	1.92	8	< 10	150	< 0.5	< 2	0.55	< 0.5	15	62	28	3.28	< 10	< 1	0.04	< 10
TAS01-BL5+00E	94069407	0.44	< 5	< 0.2	1.97	6	< 10	140	< 0.5	2	0.44	< 0.5	15	66	26	3.47	< 10	< 1	0.03	< 10
TAS01-BL5+50E	94069407	0.50	< 5	< 0.2	1.93	4	< 10	160	< 0.5	6	0.57	< 0.5	13	71	35	3.21	< 10	< 1	0.03	< 10
TAS01-BL6+00E	94069407	0.40	< 5	< 0.2	2.62	10	< 10	230	< 0.5	4	0.39	< 0.5	15	96	63	4.13	< 10	< 1	0.03	< 10
TAS01-LOE0+50S	94069407	0.32	10	< 0.2	1.25	2	< 10	150	< 0.5	2	0.28	< 0.5	6	26	9	1.99	< 10	< 1	0.03	< 10
TAS01-LOE1+00S	94069407	0.38	< 5	0.2	2.12	8	< 10	130	< 0.5	8	0.43	< 0.5	12	67	24	4.15	< 10	< 1	0.02	< 10
TAS01-LOE1+50S	94069407	0.34	< 5	< 0.2	2.35	12	< 10	190	< 0.5	< 2	0.40	< 0.5	10	69	28	3.96	< 10	< 1	0.02	< 10
TAS01-LOE2+00S	94069407	0.34	< 5	< 0.2	2.59	10	< 10	250	0.5	< 2	0.28	< 0.5	18	78	84	3.97	< 10	< 1	0.04	< 10
TAS01-L1E0+50S	94069407	0.34	< 5	0.2	3.39	8	< 10	250	0.5	2	0.48	< 0.5	18	86	52	8.34	< 10	< 1	0.03	< 10
TAS01-L1E1+00S	94069407	0.40	< 5	0.2	1.90	8	< 10	200	< 0.5	< 2	0.38	< 0.5	14	52	42	5.60	< 10	< 1	0.03	< 10
TAS01-L1E1+50S	94069407	0.40	< 5	< 0.2	2.39	8	< 10	160	< 0.5	< 2	0.45	< 0.5	18	78	35	3.92	< 10	1	0.02	< 10
TAS01-L1E2+00S	94069407	0.42	< 5	< 0.2	1.43	6	< 10	130	< 0.5	2	0.30	< 0.5	11	39	17	2.63	< 10	< 1	0.03	< 10
TAS01-L2E0+50N	94069407	0.50	< 5	< 0.2	0.70	8	< 10	90	< 0.5	< 2	0.09	< 0.5	15	86	57	5.12	< 10	< 1	0.03	< 10
TAS01-L2E0+50S	94069407	0.40	< 5	< 0.2	2.72	6	< 10	170	0.5	< 2	0.21	< 0.5	17	60	45	5.00	< 10	< 1	0.02	< 10
TAS01-L2E1+00S	94069407	0.40	< 5	< 0.2	2.76	8	< 10	160	< 0.5	< 2	0.50	< 0.5	21	69	25	5.73	< 10	< 1	0.03	< 10
TAS01-L2E1+50S	94069407	0.42	50	0.2	1.92	470	< 10	410	0.5	< 2	0.70	< 0.5	22	61	39	6.31	< 10	< 1	0.04	< 10
TAS01-L2E2+00S	94069407	0.42	< 5	< 0.2	1.68	18	< 10	150	< 0.5	< 2	0.24	< 0.5	9	48	23	3.31	< 10	< 1	0.03	< 10

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Project : 2001  
 Comments: ATTN: MARTIN PETER

Page No : 1-B  
 Total Pages : 3  
 Certificate Date: 28-AUG-2001  
 Invoice No. : 10122871  
 P.O. Number :  
 Account : HUW

## CERTIFICATE OF ANALYSIS A0122871

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RUSS01-0+00	94069407	0.17	125	41	< 0.01	378	1050	2	0.04	10	4	13	0.01	< 10	< 10	188	< 10	38
RUSS01-0+25	94069407	0.56	255	3	< 0.01	83	1680	6	< 0.01	4	1	12	0.12	< 10	< 10	44	< 10	276
RUSS01-0+50	94069407	0.44	525	1	< 0.01	40	1670	6	0.01	2	1	9	0.09	< 10	< 10	35	< 10	136
RUSS01-0+75	94069407	0.44	320	3	< 0.01	57	2030	6	0.04	< 2	1	14	0.14	< 10	< 10	44	< 10	202
RUSS01-1+00	94069407	0.65	260	1	< 0.01	39	1090	6	0.01	4	2	6	0.14	< 10	< 10	61	< 10	76
RUSS01-1+25	94069407	0.64	315	1	< 0.01	54	780	2	0.03	2	1	8	0.16	< 10	< 10	49	< 10	88
RUSS01-1+50	94069407	0.41	225	1	< 0.01	56	1040	6	0.01	< 2	1	6	0.14	< 10	< 10	39	< 10	146
RUSS01-1+75	94069407	0.43	620	1	< 0.01	38	1330	6	< 0.01	2	1	9	0.11	< 10	< 10	34	< 10	114
RUSS01-2+00	94069407	0.19	305	1	< 0.01	31	1860	8	< 0.01	< 2	1	8	0.13	< 10	< 10	30	< 10	72
RUSS01-2+25	94069407	0.33	425	1	< 0.01	42	2010	4	< 0.01	< 2	1	13	0.13	< 10	< 10	38	< 10	118
RUSS01-2+50	94069407	0.51	200	< 1	< 0.01	40	780	8	0.02	8	4	7	0.18	< 10	< 10	39	< 10	52
RUSS01-2+75	94069407	0.51	310	3	< 0.01	78	1150	8	< 0.01	< 2	2	10	0.17	< 10	< 10	53	< 10	130
RUSS01-3+00	94069407	0.60	235	1	< 0.01	47	860	6	< 0.01	4	1	8	0.16	< 10	< 10	46	< 10	64
RUSS01-3+25	94069407	0.58	220	1	< 0.01	44	1290	2	0.01	2	1	7	0.14	< 10	< 10	44	< 10	70
RUSS01-3+50	94069407	0.56	265	1	< 0.01	43	970	6	< 0.01	2	1	9	0.17	< 10	< 10	42	< 10	56
TAS01-BL0+00E	94069407	0.56	310	1	< 0.01	37	1190	< 2	0.01	6	2	5	0.13	< 10	< 10	78	< 10	66
TAS01-BL1+00E	94069407	0.61	395	1	< 0.01	29	270	6	< 0.01	6	5	7	0.09	< 10	< 10	58	< 10	46
TAS01-BL1+50E	94069407	0.50	660	2	< 0.01	65	1250	2	0.01	< 2	15	5	0.01	< 10	< 10	191	< 10	88
TAS01-BL2+00E	94069407	0.19	1075	1	< 0.01	92	860	< 2	0.01	< 2	30	12	< 0.01	< 10	20	139	< 10	68
TAS01-BL2+50E	94069407	0.30	685	1	< 0.01	47	780	2	0.01	< 2	9	9	0.01	< 10	< 10	135	< 10	78
TAS01-BL3+00E	94069407	0.15	1165	1	< 0.01	41	1410	4	0.01	< 2	12	6	0.01	< 10	20	177	< 10	82
TAS01-BL3+50E	94069407	0.94	425	3	< 0.01	30	1370	2	0.01	< 2	5	16	0.16	< 10	< 10	171	< 10	58
TAS01-BL4+00E	94069407	0.76	435	1	< 0.01	24	520	< 2	< 0.01	2	3	6	0.19	< 10	< 10	106	< 10	52
TAS01-BL4+50E	94069407	0.99	485	1	< 0.01	34	530	4	< 0.01	2	4	9	0.14	< 10	< 10	85	< 10	58
TAS01-BL5+00E	94069407	1.10	435	1	< 0.01	33	530	2	< 0.01	2	4	7	0.16	< 10	< 10	92	< 10	50
TAS01-BL5+50E	94069407	1.00	510	2	< 0.01	33	200	2	< 0.01	< 2	7	11	0.15	< 10	< 10	91	< 10	46
TAS01-BL6+00E	94069407	1.06	320	1	< 0.01	46	340	2	< 0.01	< 2	8	11	0.17	< 10	< 10	114	< 10	50
TAS01-LOE0+50S	94069407	0.30	295	1	< 0.01	10	620	2	< 0.01	2	1	6	0.08	< 10	< 10	61	< 10	56
TAS01-LOE1+00S	94069407	0.78	335	2	< 0.01	29	750	2	< 0.01	2	3	6	0.21	< 10	< 10	129	< 10	70
TAS01-LOE1+50S	94069407	0.63	340	1	< 0.01	29	1110	< 2	0.01	4	5	7	0.12	< 10	< 10	116	< 10	80
TAS01-LOE2+00S	94069407	0.64	820	< 1	< 0.01	81	730	6	< 0.01	4	11	9	0.09	< 10	< 10	71	< 10	94
TAS01-L1E0+50S	94069407	1.59	665	4	< 0.01	43	1940	< 2	0.03	< 2	5	19	0.21	< 10	10	235	< 10	92
TAS01-L1E1+00S	94069407	0.44	1440	1	< 0.01	20	2200	6	0.01	< 2	1	15	0.23	< 10	< 10	174	< 10	106
TAS01-L1E1+50S	94069407	1.29	485	1	< 0.01	43	430	< 2	< 0.01	6	5	5	0.15	< 10	< 10	100	< 10	60
TAS01-L1E2+00S	94069407	0.57	635	1	< 0.01	24	750	< 2	< 0.01	6	2	5	0.07	< 10	< 10	55	< 10	54
TAS01-L2E0+50N	94069407	0.14	410	2	< 0.01	42	580	< 2	0.01	< 2	10	3	0.01	< 10	< 10	164	< 10	58
TAS01-L2E0+50S	94069407	0.84	405	3	< 0.01	51	300	< 2	< 0.01	2	7	7	0.05	< 10	< 10	113	< 10	54
TAS01-L2E1+00S	94069407	1.22	1250	4	< 0.01	38	1350	2	0.01	< 2	5	9	0.07	< 10	10	163	< 10	82
TAS01-L2E1+50S	94069407	0.54	1330	1	< 0.01	43	1280	< 2	0.01	4	11	30	< 0.01	< 10	10	129	< 10	98
TAS01-L2E2+00S	94069407	0.53	320	1	< 0.01	30	310	< 2	< 0.01	< 2	4	5	0.07	< 10	< 10	72	< 10	52

CERTIFICATION: 





# ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
VANCOUVER, BC  
V5P 3J5

Project : 2001  
Comments : ATTN: MARTIN PETER

Page No : 2-A  
Total Pages : 3  
Certificate Date: 28-AUG-2001  
Invoice No. : I0122871  
P.O. Number :  
Account : HUW

## CERTIFICATE OF ANALYSIS

A0122871

SAMPLE	PREP CODE	Weight		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
		Kg	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
TAS01-L3E0+50N	94069407	0.46	< 5	0.2	2.39	8	< 10	740	< 0.5	2	0.66	0.5	15	52	31	5.19	< 10	< 1	0.04	< 10
TAS01-L3E1+00N	94069407	0.46	< 5	0.2	1.59	16	< 10	100	< 0.5	< 2	0.21	< 0.5	8	60	18	4.38	< 10	< 1	0.02	< 10
TAS01-L3E1+50N	94069407	0.32	< 5	< 0.2	1.41	10	< 10	100	< 0.5	4	0.29	< 0.5	6	49	11	2.93	< 10	< 1	0.01	< 10
TAS01-L3E0+50S	94069407	0.42	< 5	< 0.2	2.32	22	< 10	310	< 0.5	< 2	0.36	< 0.5	15	80	43	4.55	< 10	< 1	0.02	< 10
TAS01-L3E1+50S	94069407	0.40	< 5	< 0.2	3.50	8	< 10	180	0.5	< 2	0.26	< 0.5	25	110	64	8.41	< 10	< 1	0.02	< 10
TAS01-L3E2+00S	94069407	0.38	< 5	< 0.2	2.17	6	< 10	120	0.5	< 2	0.19	< 0.5	17	106	43	7.25	< 10	1	0.02	< 10
TAS01-L4E0+50N	94069407	0.40	< 5	< 0.2	2.24	10	< 10	120	< 0.5	4	0.35	< 0.5	15	77	26	4.23	< 10	< 1	0.03	< 10
TAS01-L4E1+00N	94069407	0.38	< 5	< 0.2	1.97	12	< 10	210	< 0.5	< 2	0.73	< 0.5	16	76	50	3.35	< 10	1	0.06	< 10
TAS01-L4E1+50N	94069407	0.48	< 5	< 0.2	2.03	10	< 10	190	< 0.5	4	0.37	< 0.5	13	71	30	3.73	< 10	< 1	0.02	< 10
TAS01-L4E2+00N	94069407	0.36	< 5	< 0.2	1.88	6	< 10	240	< 0.5	< 2	0.42	< 0.5	13	65	27	3.26	< 10	< 1	0.04	< 10
TAS01-L4E0+50S	94069407	0.52	< 5	< 0.2	2.03	12	< 10	170	< 0.5	< 2	0.51	< 0.5	17	77	41	3.45	< 10	< 1	0.03	< 10
TAS01-L4E1+00S	94069407	0.46	< 5	< 0.2	2.15	6	< 10	170	< 0.5	< 2	0.27	< 0.5	17	65	21	5.09	< 10	3	0.01	< 10
TAS01-L4E1+50S	94069407	0.38	< 5	< 0.2	1.91	8	< 10	570	< 0.5	< 2	0.41	< 0.5	16	35	36	5.33	< 10	< 1	0.02	< 10
TAS01-L4E2+00S	94069407	0.38	< 5	< 0.2	2.07	12	< 10	250	< 0.5	2	0.30	< 0.5	12	63	26	3.82	< 10	< 1	0.03	< 10
TAS01-L5E0+50N	94069407	0.40	< 5	< 0.2	1.99	8	< 10	130	< 0.5	4	0.50	< 0.5	20	71	36	3.50	< 10	< 1	0.02	< 10
TAS01-L5E1+50N	94069407	0.38	< 5	< 0.2	2.05	14	< 10	230	< 0.5	< 2	0.31	< 0.5	19	73	82	4.98	< 10	< 1	0.03	< 10
TAS01-L5E2+00N	94069407	0.42	< 5	< 0.2	1.83	6	< 10	120	< 0.5	< 2	0.43	< 0.5	11	53	17	3.03	< 10	< 1	0.01	< 10
TAS01-L5E0+50S	94069407	0.42	< 5	< 0.2	1.86	6	< 10	170	< 0.5	< 2	0.50	< 0.5	13	65	25	3.21	< 10	< 1	0.02	< 10
TAS01-L5E1+00S	94069407	0.46	< 5	< 0.2	2.09	12	< 10	150	< 0.5	2	0.42	< 0.5	18	69	29	3.67	< 10	< 1	0.01	< 10
TAS01-L5E1+50S	94069407	0.32	< 5	0.2	2.39	12	< 10	260	< 0.5	< 2	0.31	< 0.5	15	74	42	4.05	< 10	< 1	0.07	< 10
TAS01-L5E2+00S	94069407	0.42	< 5	< 0.2	1.85	6	< 10	690	< 0.5	< 2	0.45	< 0.5	22	61	28	4.28	< 10	1	0.03	< 10
TAS01-L6E0+50N	94069407	0.38	< 5	< 0.2	1.81	48	< 10	210	0.5	2	0.21	< 0.5	14	51	43	4.97	< 10	< 1	0.03	< 10
TAS01-L6E1+00N	94069407	0.60	< 5	< 0.2	0.47	2	< 10	250	< 0.5	< 2	0.08	< 0.5	6	16	42	2.97	< 10	< 1	0.02	< 10
TAS01-L6E1+50N	94069407	0.48	< 5	0.2	0.54	8	< 10	170	< 0.5	4	0.05	< 0.5	5	23	62	2.61	< 10	< 1	0.03	< 10
TAS01-L6E2+00N	94069407	0.40	< 5	< 0.2	1.09	10	< 10	100	< 0.5	< 2	0.35	< 0.5	4	35	10	2.26	< 10	< 1	0.03	< 10
TAS01-L6E0+50S	94069407	0.48	< 5	< 0.2	2.00	12	< 10	210	< 0.5	2	0.43	< 0.5	15	67	32	3.81	< 10	1	0.02	< 10
TAS01-L6E1+00S	94069407	0.34	< 5	< 0.2	2.01	12	< 10	110	< 0.5	2	0.36	< 0.5	14	68	23	4.01	< 10	< 1	0.01	< 10
TAS01-L6E1+50N	94069407	0.54	< 5	< 0.2	2.10	10	< 10	130	< 0.5	2	0.50	< 0.5	15	67	21	3.60	< 10	< 1	0.03	< 10
TAS01-L6E2+00S	94069407	0.50	< 5	< 0.2	2.11	8	< 10	290	< 0.5	2	0.48	< 0.5	16	67	25	4.03	< 10	1	0.01	< 10
CHU01-01	94069407	0.36	< 5	0.2	2.19	8	< 10	150	< 0.5	10	0.07	< 0.5	3	6	84	4.82	< 10	< 1	0.21	< 10
CHU01-02	94069407	0.32	< 5	< 0.2	1.98	4	< 10	160	< 0.5	6	0.10	< 0.5	4	7	53	3.84	< 10	< 1	0.20	< 10
CHU01-03	94069407	0.30	< 5	< 0.2	2.45	8	< 10	220	< 0.5	< 2	0.09	< 0.5	5	10	43	3.84	< 10	1	0.21	< 10
CHU01-04	94069407	0.30	< 5	0.2	2.47	6	< 10	200	< 0.5	6	0.11	< 0.5	6	9	61	4.55	< 10	< 1	0.46	< 10
CHU01-05	94069407	0.32	< 5	0.2	2.29	6	< 10	230	< 0.5	2	0.07	< 0.5	1	5	29	4.00	< 10	1	0.25	< 10
CHU01-06	94069407	0.36	< 5	0.6	2.29	16	< 10	230	< 0.5	6	0.07	< 0.5	3	9	149	4.92	< 10	< 1	0.41	< 10
AT01-0+00N	94069407	0.44	-----	0.2	2.86	16	< 10	1160	< 0.5	< 2	0.12	< 0.5	11	63	40	5.84	< 10	< 1	0.03	< 10
AT01-0+25N	94069407	0.50	-----	< 0.2	2.36	10	< 10	970	< 0.5	< 2	0.12	< 0.5	12	48	38	3.53	< 10	< 1	0.03	< 10
AT01-0+50N	94069407	0.36	-----	< 0.2	2.43	10	< 10	480	< 0.5	< 2	0.17	< 0.5	13	62	38	3.99	< 10	< 1	0.03	< 10
AT01-0+75N	94069407	0.38	-----	0.6	2.18	6	< 10	270	< 0.5	< 2	0.19	< 0.5	7	47	19	3.63	< 10	1	0.05	< 10
AT01-1+00N	94069407	0.34	-----	0.8	2.27	10	< 10	540	< 0.5	< 2	0.20	< 0.5	8	46	23	3.46	< 10	< 1	0.04	< 10

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Project: 2001  
 Comments: ATTN: MARTIN PETER

Page No: 2-B  
 Total Pages: 3  
 Certificate Date: 28-AUG-2001  
 Invoice No.: I0122871  
 P.O. Number:  
 Account: HUW

## CERTIFICATE OF ANALYSIS A0122871

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TAS01-L3E0+50N	94069407	0.80	1325	2 < 0.01	17	2130	< 2	0.03	8	5	30	0.13	< 10	10	123	< 10	102	
TAS01-L3E1+00N	94069407	0.44	280	1 < 0.01	21	1360	2	0.01	2	2	4	0.11	< 10	< 10	119	< 10	48	
TAS01-L3E1+50N	94069407	0.48	235	1 < 0.01	17	320	6 < 0.01	< 2	1	4	0.19	< 10	< 10	< 10	101	< 10	42	
TAS01-L3E0+50S	94069407	0.84	485	1 < 0.01	37	700	4	0.01	< 2	5	6	0.12	< 10	< 10	132	< 10	60	
TAS01-L3E1+50S	94069407	1.20	830	1 < 0.01	55	920	< 2	0.01	< 2	15	6	0.01	< 10	10	249	< 10	88	
TAS01-L3E2+00S	94069407	0.60	465	2 < 0.01	47	670	< 2 < 0.01	< 2	16	5	0.02	< 10	< 10	10	258	< 10	82	
TAS01-L4E0+50N	94069407	0.89	465	2 < 0.01	38	660	2	0.01	< 2	4	6	0.16	< 10	< 10	116	< 10	60	
TAS01-L4E1+00N	94069407	0.96	970	1 < 0.01	38	350	< 2	0.01	< 2	8	15	0.13	< 10	< 10	90	< 10	52	
TAS01-L4E1+50N	94069407	0.92	375	1 < 0.01	34	760	< 2 < 0.01	8	4	6	0.12	< 10	< 10	< 10	93	< 10	66	
TAS01-L4E2+00N	94069407	0.84	620	2 < 0.01	33	590	< 2	0.01	6	4	7	0.13	< 10	< 10	85	< 10	66	
TAS01-L4E0+50S	94069407	1.07	680	2 < 0.01	45	280	6 < 0.01	6	8	8	0.17	< 10	< 10	< 10	90	< 10	48	
TAS01-L4E1+00S	94069407	0.80	535	1 < 0.01	42	690	2 < 0.01	< 2	6	6	0.03	< 10	< 10	< 10	131	< 10	88	
TAS01-L4E1+50S	94069407	0.85	635	1 < 0.01	23	1600	< 2	0.01	< 2	7	15	0.12	< 10	< 10	186	< 10	82	
TAS01-L4E2+00S	94069407	0.89	500	2 < 0.01	32	1410	4	0.01	< 2	3	5	0.11	< 10	< 10	109	< 10	80	
TAS01-L5E0+50N	94069407	1.10	585	2 < 0.01	36	200	2 < 0.01	< 2	5	8	0.16	< 10	< 10	< 10	94	< 10	46	
TAS01-L5E1+50N	94069407	0.65	650	1 < 0.01	50	840	10	0.01	< 2	7	7	0.17	< 10	< 10	123	< 10	114	
TAS01-L5E2+00N	94069407	0.93	305	1 < 0.01	27	840	< 2 < 0.01	2	3	4	0.14	< 10	< 10	< 10	88	< 10	44	
TAS01-L5E0+50S	94069407	0.86	560	2 < 0.01	31	460	4 < 0.01	< 2	5	6	0.18	< 10	< 10	< 10	98	< 10	54	
TAS01-L5E1+00S	94069407	1.14	475	2 < 0.01	34	660	< 2 < 0.01	4	4	5	0.17	< 10	< 10	< 10	100	< 10	52	
TAS01-L5E1+50S	94069407	0.86	470	1 < 0.01	36	950	6	0.01	2	4	6	0.17	< 10	< 10	121	< 10	90	
TAS01-L5E2+00S	94069407	0.79	1095	1 < 0.01	26	2320	6	0.01	< 2	3	6	0.15	< 10	< 10	127	< 10	86	
TAS01-L6E0+50N	94069407	0.37	350	2 < 0.01	38	590	4	0.01	< 2	7	7	0.01	< 10	< 10	106	< 10	50	
TAS01-L6E1+00N	94069407	0.05	2420	2 < 0.01	28	590	6	0.01	< 2	1	3	< 0.01	< 10	< 10	40	< 10	72	
TAS01-L6E1+50N	94069407	0.05	510	3 < 0.01	30	570	8	0.01	< 2	1	3	0.01	< 10	< 10	45	< 10	82	
TAS01-L6E2+00N	94069407	0.36	225	< 1 < 0.01	12	850	6 < 0.01	2	1	5	0.20	< 10	< 10	< 10	110	< 10	50	
TAS01-L6E0+50S	94069407	0.91	440	2 < 0.01	38	690	< 2 < 0.01	< 2	4	6	0.15	< 10	< 10	< 10	105	< 10	62	
TAS01-L6E1+00S	94069407	0.94	380	1 < 0.01	35	670	2	0.01	< 2	3	5	0.19	< 10	< 10	105	< 10	50	
TAS01-L6E1+50N	94069407	0.88	445	2 < 0.01	30	710	6 < 0.01	< 2	4	7	0.17	< 10	< 10	< 10	99	< 10	62	
TAS01-L6E2+00S	94069407	1.03	480	2 < 0.01	33	1360	2 < 0.01	4	4	8	0.13	< 10	< 10	< 10	99	< 10	84	
CHU01-01	94069407	0.56	175	16	0.01	2	1120	2	0.18	2	8	45	0.19	< 10	< 10	126	< 10	46
CHU01-02	94069407	0.66	255	10	0.01	3	780	6	0.14	2	4	29	0.22	< 10	< 10	108	10	94
CHU01-03	94069407	0.66	230	13	0.01	5	860	2	0.16	< 2	6	44	0.23	< 10	< 10	117	< 10	62
CHU01-04	94069407	0.95	345	23	0.01	5	1270	< 2	0.24	4	9	65	0.28	< 10	< 10	125	< 10	104
CHU01-05	94069407	0.89	160	43	0.01	1	1450	< 2	0.32	6	6	47	0.15	< 10	< 10	116	< 10	54
CHU01-06	94069407	0.99	165	220	0.03	7	1280	2	0.38	< 2	7	65	0.19	< 10	< 10	142	< 10	44
AT01-0+00N	94069407	0.58	415	3 < 0.01	38	1650	10	0.02	2	2	8	0.12	< 10	< 10	105	< 10	182	
AT01-0+25N	94069407	0.69	480	1 < 0.01	49	750	8	0.01	2	2	6	0.07	< 10	< 10	58	< 10	128	
AT01-0+50N	94069407	0.76	300	2 < 0.01	41	500	8 < 0.01	< 2	3	10	0.16	< 10	< 10	< 10	92	< 10	74	
AT01-0+75N	94069407	0.51	210	2 < 0.01	24	770	8	0.01	4	2	9	0.12	< 10	< 10	104	< 10	60	
AT01-1+00N	94069407	0.41	200	2 < 0.01	25	1030	12	0.01	4	1	9	0.07	< 10	< 10	86	< 10	136	

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN

5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Project: 2001  
 Comments: ATTN: MARTIN PETER

Page No. : 3-A  
 Total Pages : 3  
 Certificate Date: 28-AUG-2001  
 Invoice No. : 10122871  
 P.O. Number :  
 Account : HUW

## CERTIFICATE OF ANALYSIS A0122871

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
AT01-1+25N	94069407	0.32	-----	0.6	2.26	10	< 10	550	< 0.5	< 2	0.18	< 0.5	10	49	29	3.67	< 10	< 1	0.03	< 10
AT01-1+50N	94069407	0.26	-----	0.2	1.37	10	< 10	470	< 0.5	< 2	0.14	< 0.5	9	33	16	3.15	< 10	1	0.04	< 10
AT01-1+75N	94069407	0.36	-----	< 0.2	2.50	10	< 10	490	< 0.5	4	0.14	< 0.5	16	58	28	3.80	< 10	< 1	0.03	< 10
AT01-2+00N	94069407	0.28	-----	0.2	2.65	8	< 10	510	< 0.5	2	0.24	< 0.5	12	55	31	4.10	< 10	< 1	0.03	< 10
HAS01 0+00	94069407	0.48	-----	0.2	1.58	76	< 10	110	1.0	< 2	0.11	< 0.5	12	14	146	8.58	< 10	< 1	0.14	20
<del>0801-01 51501</del>	94069407	0.30	-----	8.2	1.62	106	< 10	70	< 0.5	10	0.27	3.0	6	71	509	>15.00	20	3	0.01	< 10
<del>01001-01+00</del> Sf01-01	94069407	0.52	45	< 0.2	1.92	18	< 10	210	< 0.5	< 2	0.73	0.5	16	55	46	3.49	< 10	1	0.04	< 10

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

PETER, MARTIN  
 5515 ARGYLE ST  
 VANCOUVER, BC  
 V5P 3J5

Project: 2001  
 Comments: ATTN: MARTIN PETER

Page No: 3-B  
 Total Pages: 3  
 Certificate Date: 28-AUG-2001  
 Invoice No.: 10122871  
 P.O. Number:  
 Account: HUW

## CERTIFICATE OF ANALYSIS A0122871

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
AT01-1+25N	94069407	0.63	625	1 < 0.01	35	940	8	0.01	2	1	10	0.09	< 10	< 10	72	< 10	134	
AT01-1+50N	94069407	0.36	1130	1 < 0.01	17	1020	12	0.01	4	1	8	0.08	< 10	< 10	72	< 10	70	
AT01-1+75N	94069407	0.76	565	2 < 0.01	35	580	8	0.01	2	3	10	0.12	< 10	< 10	76	< 10	118	
AT01-2+00N	94069407	0.82	595	2 < 0.01	37	520	8	0.01	< 2	3	30	0.16	< 10	< 10	98	< 10	118	
HAS01 0+00	94069407	0.35	625	7 < 0.01	15	1450	56	0.04	< 2	2	21	0.04	10	< 10	21	< 10	38	
SS01-01	94069407	0.81	525	16 < 0.01	26	1680	98	1.54	< 2	2	12	0.21	< 10	40	135	< 10	70	
SISO1-01+00	94069407	0.95	705	2 < 0.01	38	530	12	0.04	8	7	19	0.17	< 10	< 10	85	< 10	136	

CERTIFICATION: 