BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	2000/2001
REPORT #:	PAP 00-43
NAME:	ROBERT WEICKER

D. TECHNICAL REPORT

One technical report to be completed for each project area.
Refer to Program Regulations 15 to 17, pages 6 and 7.

SUMMARY OF RESULTS

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

Name Robert Weicker Reference Number 00/01-P78

LOCATION/COMMODITIES

Project Area (as listed in Part A) BIG DOG MINFILE No. if applicable

Location of Project Area NTS 092J15E Lat 51 01 53 N Long 122 33 03 W

Description of Location and Access 092O002E

North of Gold Bridge, Shulaps Ultrafic Complex with Big Dog Mtn located in the northern portion of the area. Access by Lisa & Marshall Lake roads and Yalakom Rd.

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

Nicholas Weicker - experienced in the field, son, labourer line cutter & claim staker.

Main Commodities Searched For

Pt/Pd (Au, Cu)

Known Mineral Occurrences in Project Area Au - Elizabeth Cu - Poison Mtn (See Attached.)

WORK PERFORMED

1. Conventional Prospecting (area) - approx 5-10 sq. kilometers. prospect logging and mining roads, and in detail Horse Creek area
2. Geological Mapping (hectares/scale) → Reconnaissance only. Rock samples
3. Geochemical (type and no. of samples) Moss Mat (Sediment) 26 samples Rock samples (17)
4. Geophysical (type and line km) - not applicable
5. Physical Work (type and amount) not applicable
6. Drilling (no. holes, size, depth in m, total m) not applicable
7. Other (specify) - research on area & acquisition of 1988 Report.

Best Discovery

Project/Claim Name Horse Creek Commodities Pt Pd

Location (show on map) Lat. 51 02 00 N Long 122 33 03 W Elevation

Best assay/sample type

→ 1988 Prospecting Assistance Report indicated +2.00 g/t (+2000 ppb) Pt in Heavy Mineral Concentrate from Horse Creek

Description of mineralization, host rocks, anomalies

Prospecting along Horse Creek and its tributaries indicates a predominance of harzburgite and serpentinite. Some quartz diorite in float and rare outcrop also observed. Outcrop is limited in the drainage basin. Very little sulphide mineralization was observed.

FEEDBACK: comments and suggestions for Prospector Assistance Program

Additional sampling is required to determine the effectiveness of moss mat geochemistry for Pt/Pd targets.

Robert Weicker

D. TECHNICAL REPORT (continued)
REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- **Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.*

Name Robert Wescher Reference Number 00101-P-78

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

Fig. 1 – Location
Fig 2 – Regional Geology
Fig 3 – Project Area Geology
Fig 4 – Sketch Map – House Creek Area

2. PROGRAM OBJECTIVE [Include original exploration target.]

– Confirm anomalous platinum values in Heavy Mineral concentrates conducted in 1988 prospecting program. Objective was to utilize "Mass Mat" sampling to confirm and define the anomalies.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

Results of Moss Mat sediment samples and rock samples in the area of House Creek returned only low values of Pt, Pd and Au. Additional sampling is required to determine the effectiveness of the "Moss Mat" geochemistry for platinum exploration.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (continued)

Prospecting and rock samples were taken over a large area. A traverse from Marshall Lake Rd up Tim Creek resulted in samples RX-1, 2, 3 from altered volcanics and RX 4, 5 from ultramafics. Low values were returned.

Prospecting on Noaxe Rd, Yalakom Rd and adit roads returned only two values RX-6-11.

The best platinum value was obtained from the peak above the Elizabeth Mine in weakly silicified chert(?). This sample returned 4 ppb Au, 15 ppb Pt and 8 ppb Pd.

Samples along Horse Creek and near the fireline (N-campsite) returned low values as did samples along Yalakom Rd except sample BD RX-17 which returned 2 Au ppb, 15 ppb Pt and 16 ppb Pd from olivine rich hornblendite (+/- magnetite).

Results in general were disappointing however based on other PGE programs, a large volume of samples are required to determine the potential of an area. Programs in Ontario and Wyoming indicate a preferred density of samples is required. Only minor sulphide mineralization was observed.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)

4. GEOCHEMICAL RESULTS [Describe all survey types done (rock, soil, silt) and their objective. Show clearly on accompanying map(s) of appropriate scale all sample sites along with all significant values. Any anomalous areas should be indicated on maps by the use of contouring, variable symbol sizes, or some other suitable technique. Include a discussion/interpretation of results. A copy of analysis/assay certificates **must** be included with sample numbers from map. Details of individual rock samples taken are encouraged. Significant geochemical values obtained must be stated.]

Following initial prospecting in the Big Dog Mountain project area the program became focused on Horse Creek. Horse Creek is a tributary of the Yalakom River flowing roughly east-west at the northern portion of the Shulaps (Fig 3). From information obtained from a prospecting report on the Yalakom Project - Prospector's Assistance Program #1096 1-P200- 26 24/1980, it was indicated that significant platinum values were returned from heavy mineral stream sediments samples from Horse Creek. Consequently the Big Dog project was redirected to focus on these values which returned up to 2035 ppb Pt.

It was decided to obtain "Moss Mat" samples from Horse Creek to determine if anomalous values of Pt could be returned. Moss mats were selected as it represented a more cost effective method without the concentration costs incurred by the lab. The moss mat samples were dryed, sieved to -80 mesh and analyzed by Chemex for Au, Pt, Pd and ICP 32 element. Cost per sample was $26.40.

In addition 9 rock samples were also taken over the Big Dog area and in the vicinity of Horse Creek. Analysis for Au, Pt, Pd and ICP 32 elements were completed by ALS Chemex at a cost of $29.35 /sample

Results.

Moss Mat. The best value for Au was 40 ppb from Horse Creek. Platinum values ranged up to 20 ppb and the best Pd value was 12 ppb. Results are inconclusive and do not directly co-relate with the 1988 heavy mineral concentrates. Further investigation into geochemical dispersion trails is required. Regardless additional sampling is required to determine the effectiveness of Moss Mat sampling.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)

5. GEOPHYSICAL RESULTS [Specify the objective of the survey, the method used and the work done. Discuss the results and show the data on an accompanying map of appropriate scale. Any anomalous areas must be indicated on maps by the use of contouring, or some other suitable technique.]

- No geophysical programs completed.

5. OTHER RESULTS [**Drilling** - describe objective, type and amount of drilling done. Discuss results, including any significant intersections obtained. Indicate on a map of appropriate scale the drill-hole collar location, the angle of inclination and azimuth. Drill logs correlated with assay results must be included. **Physical Work** - describe the type and amount of physical work done and the reasons for doing it (where not self-evident). This includes lines/grids, trails, trenches, opencuts, undergound work, reclamation, staking of claims, etc. Discuss results where pertinent.]

No drilling or physical work completed

Signature of Grantee R. F. Weicker Date Jan 19/2001

FMC # 128515

P. Geo.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. F. WEICKER
GEOSCIENTIST

Rec'd 01/30/01

TECHNICAL SUMMARY REPORT

BIG DOG PROJECT – PGE+Au Targets

NTS: 092J15E

Summary

A proposal for funding under the B.C. Prospector's Assistance Program was granted in April 2000 to complete a reconnaissance exploration program on a large ultramafic body of the Shulaps Ultramafic Complex, located north of Gold Bridge in South-Central district of B.C. Access is north from Gold Bridge via a network of logging roads. The ultramafic body is approximately 8 km wide at the north end, 16 km at the south end and about 26 km in length with Big Dog Mountain located in the northern portion. Host rocks are mostly dunite to dunitic peridotite, with orthopyroxenite, olivine orthopyroxenite and harzburgite.

The Big Dog target body hosts a wide range of prospects and mineral occurrences and with significant deposits in adjacent areas. More advance mineral occurrences in the study area include Poison Mountain and the Elizabeth mine. The Poison Mountain porphyry copper deposit with a resource of 280 million tonnes grading 0.261 per cent copper, 0.142 gram per tonne gold, 0.007 per cent molybdenum and 0.514 grams per tonne silver. Since its discovery in 1956, the property has been explored by a variety of surveys, including 17,269 metres of diamond drilling and 21,131metres of percussion drilling, which have identified two zones. The Elizabeth-Yalakom prospect located 6.7 kilometres west of the confluence of Blue Creek and the Yalakom River in the Shulaps Range, had limited production in 1958, comprising 8 tonnes of ore yielded 156 grams of silver, 156 grams of gold, 24 kilograms of lead and 8 kilograms of zinc. Work in 1984 resulted in an indicated ore reserve of 3853 tonnes grading 41.1 grams per tonne gold

There are significant occurrences of chromite, copper, gold, silver, and talc within the Big Dog target area. It is the podiform Alpine-type chromite occurrences that may contain significant PGE (platinum group elements) and gold values, which were the principal focus of the proposed reconnaissance exploration program. Based on current maps there were no active mineral claims in the Big Dog target area, however four Crown Grants cover the Elizabeth-Yalakom prospect. A program of prospecting and stream sediment and rock sampling was proposed to define Pt/Pd/Au anomalies that warrant staking and additional exploration programs.

While conducting extensive research it was determined that a previous prospecting program (under the FAME grant program 1987, 1988) was conducted in the project area. I was able to obtain the data from this program, which indicated **platinum values of 2035 ppb** in heavy mineral concentrates from stream sediments on Horse Creek. This discovery redirected the proposed program and a 20 unit claim (BD #1) was staked over the target area on Horse Creek. It was decided to utilize "Moss Mat" sediment samples to determine if a co-relation could be established with the Heavy Mineral Concentrates from 1987-88. Moss mats comprise mossy and silt material taken near the water level, which are placed in linen bags, which may seep. The excess water is squeezed out and the samples are allowed to air dry before being shipped to the laboratory. The laboratory dries the sample, sieves to –80 mesh and analyses for Au, Pt, Pd and 32 elements by ICP. Moss mat require less preparation (and cost) compared to Heavy Mineral separations.

Access

The Big Dog target area is accessed by a network of logging roads from Lillooet and Gold Bridge. Camp sites are available on both sides of the range and accommodations can be obtained in Lillooet, Gold Bridge or at Tyaughton resort.

Prospecting Targets

Platinum group elements (PGE) and gold values related to podiform Alpine-type chromite and sulphide mineralization. An example is the Peridotite Creek chromite prospect located on the southeast side of a very steep razor back ridge (elevation 2790 metres) northwest of the headwaters of Peridotite Creek, and is hosted within ultramafic rocks of the Shulaps Ultramafic Complex. Chromite occurs in disseminations, stringers, and massive lenses hosted by dunite, serpentite and harzburgite. The target area appears to have had little exploration attention related to PGE values although several significant gold occurrences are known and will be investigated.

Program Description

A two man crew accessed the target area from several locations to take moss mat stream sediment samples and rock samples from numerous locations. Prospecting, geological mapping and rock sampling was also conducted. No physical excavations or drilling was completed. In total 25 field man days were completed and 4 other days. One (1) 20 unit claim (BD #1) was staked to cover a previously anomalous Pt area. The cost of the program under the guidelines of the prospecting grant was $11,128. To date $3750 has been received.

Results and Recommendations

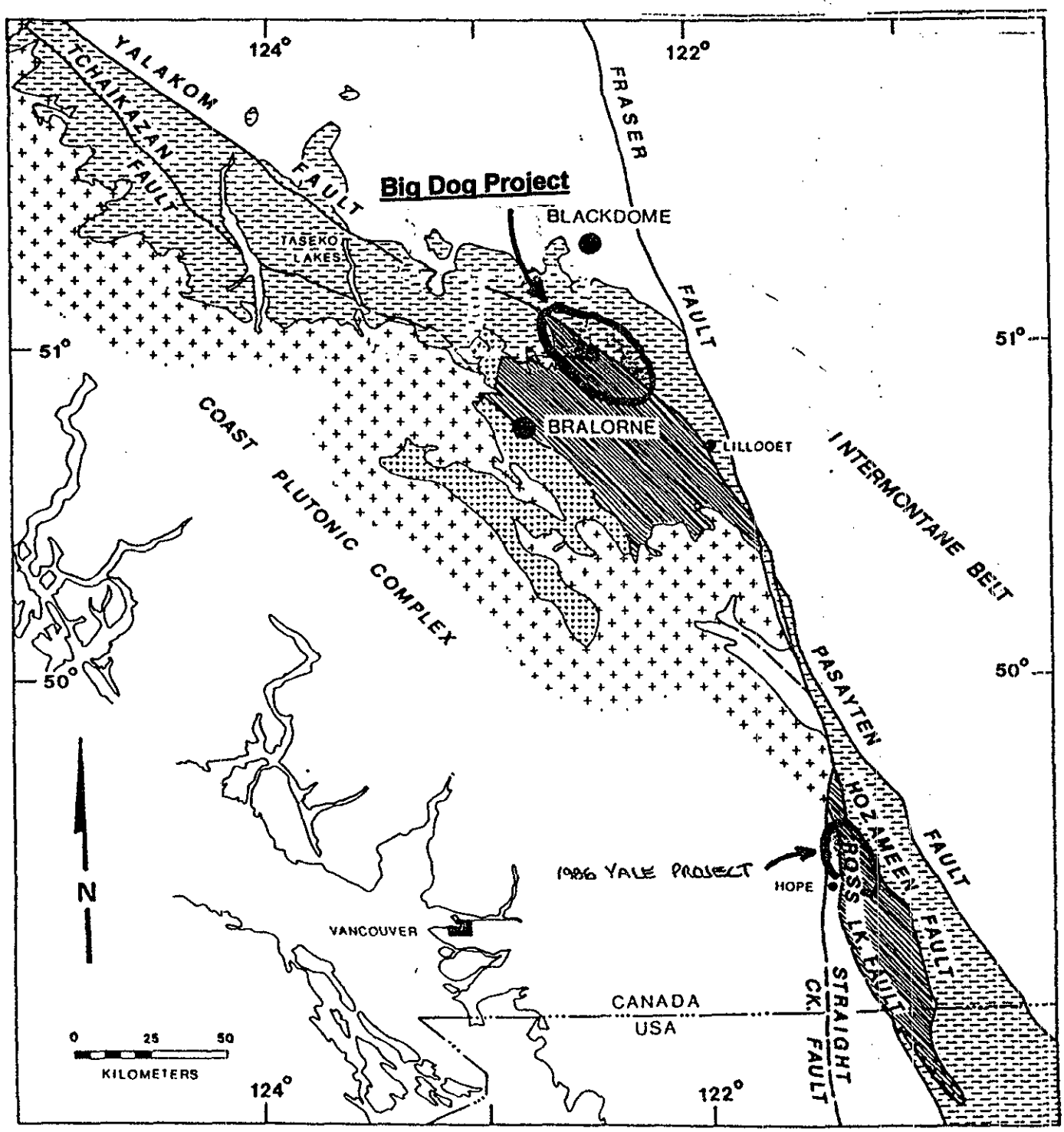
Moss mat sediment geochemical sampling of Horse Creek was completed to confirm and define anomalous platinum (2035 ppb Pt) values that were previously returned in heavy mineral concentrates of stream sediments from a 1998 Prospecting Grant program. Only low values of Au, Pt, and Pd were returned in the recent moss mat sampling program and the results are inconclusive. Additional sampling is required to determine if this geochemical method is suitable for Pt exploration. Prospecting and rock samples taken in over the Big Dog project area, and in the Horse Creek area were not encouraging. However only a very small portion of the entire Shulap ultramafic body has been prospected and the potential remains for podiform Alpine-type chromite occurrences that may contain significant PGE (platinum group). With the increased interest in PGE mineralization I intend to compile a further proposal on the Big Dog project area, to be presented to exploration companies. I feel that the cost and sample density required to test for the PGE potential is beyond the means of the current prospecting grant, but could readily be funded by a interested company.

Respectfully submitted

Robert Weicker (P.Geo) – Applicant

BIG DOG PROJECT - Stream Geochemistry					Summer 2000	
Sample #	Type	Year	Au ppb	Pt ppb	Pd ppd	Comment
From Mouth of Horse Creek With Yalakom River proceeding upstream						
BD-MM-1	Moss Mat	2000	10	10	10	Small ceek
BD-MM- 2	Moss Mat	2000	8	5	8	Horse Creek
BD-MM- 3	Moss Mat	2000	12	15	8	Horse Creek
YKE	HM Conc.	1987	137	1	1	Magnetic Fraction
BD-MM- 4	Moss Mat	2000	8	0	8	Horse Creek
BD-MM- 5	Moss Mat	2000	36	0	12	Horse Creek
BD-MM- 6	Moss Mat	2000	16	20	12	South Branch
BD-MM- 7	Moss Mat	2000	8	0	6	South Branch
YKW-6B	HM Conc.	1988	3	206	1	Magnetic Fraction
BD-MM-8	Moss Mat	2000	8	0	6	South Branch
BD-MM- 9	Moss Mat	2000	18	0	18	Horse Creek
BD-MM- 10	Moss Mat	2000	8	10	18	Horse Creek
YKW-6A	HM Conc.	1988	19	2035	3	Magnetic Fraction
BD-MM- 11	Moss Mat	2000	8	5	8	Horse Creek
BD-MM- 12	Moss Mat	2000	10	0	8	Horse Creek
BD-MM- 13	Moss Mat	2000	8	15	10	Horse Creek
BD-MM- 14	Moss Mat	2000	8	5	10	Horse Creek
BD-MM- 15	Moss Mat	2000	14	0	8	Horse Creek
BD-MM- 16	Moss Mat	2000	8	0	10	Horse Creek
BD-MM- 117	Moss Mat	2000	10	0	10	Horse Creek
BD-MM- 18	Moss Mat	2000	10	0	8	Horse Creek
BD-MM- 19	Moss Mat	2000	8	5	6	Horse Creek
BD-MM- 20	Moss Mat	2000	8	5	8	Horse Creek
YKW-6C	HM Conc.	1988	4	68	5	Magnetic Fraction
YKW-6D	HM Conc.	1988	1	5	1	Magnetic Fraction
BD-MM- 24	Moss Mat	2000	12	10	12	Horse Creek
BD-MM- 25	Moss Mat	2000	40	5	10	Horse Creek
BD-MM- 26	Moss Mat	2000	12	0	12	Near Campsite
BD-MM-21	Moss Mat	2000	8	0	4	North of Horse
BD-MM- 22	Moss Mat	2000	8	0	6	North of Horse
BD-MM- 23	Moss Mat	2000	12	0	12	Near Campsite

BIG DOG PROJECT - ROCK SAMPLES			
Sample #	Au ppb	Pt ppb	Pd ppd
BIG DOG PROJECT & Horse Creek			
BD-RX-1	4	5	6
BD-RX-2	2	0	4
BD-RX-3	2	0	4
BD-RX-4	2	0	12
BD-RX-5	2	0	4
BD-RX-6	2	0	6
BD-RX-7	6	0	6
BD-RX-8	4	10	6
BD-RX-9	6	10	8
BD-RX-11	4	15	8
BD-RX-12	4	10	8
BD-RX-13	2	0	6
BD-RX-14	4	10	4
BD-RX-15	2	0	10
BD-RX-16	2	0	4
BD-RX-17	2	15	16
BD-RX-18	2	5	6

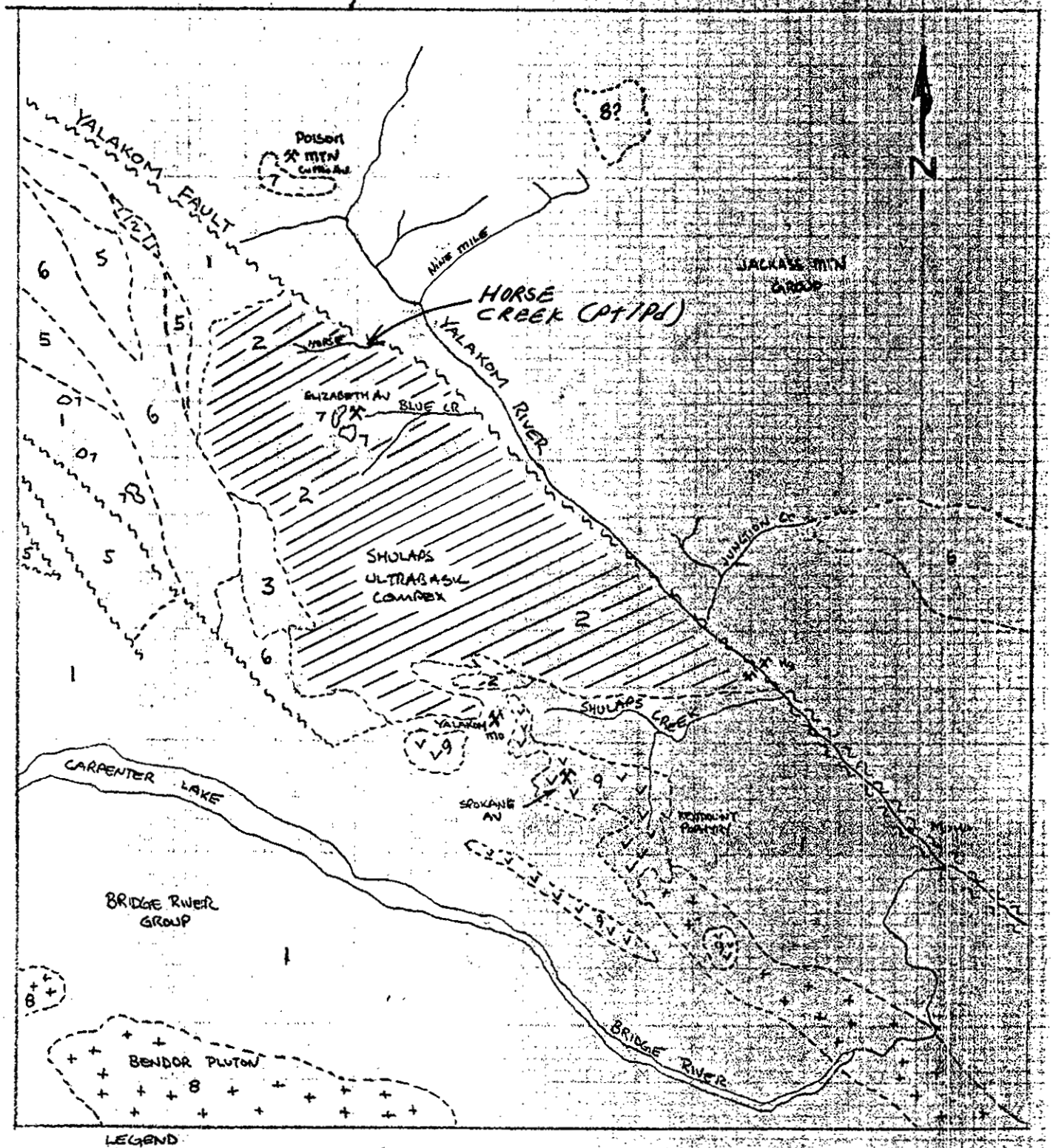


Tyaughton-Methow Belt

Triassic–Lower Jurassic Cadwallader and Tyaughton Groups

Triassic and older Bridge River and Hozameen Groups, including Shulaps ultramafic complex

BIG DOG PROJECT	
REGIONAL GEOLOGY S.W. BRITISH COLUMBIA	
Scale 1 : 2,000,000	FIGURE
DRAWN BJC after GLOVER	2.
DATE FEBRUARY 20/1988	



LEGEND

FAULT ~~~

GEOLOGICAL CONTACT ----

MINERAL OCCURRANCE ⚒

GEOLOGY

9	REMBOUNT PORPHYRY	5	TAYLOR CREEK GROUP
8	BENDOR INTRUSIONS	4	JACKASS MTN GROUP
7	FELDSPAR PORPHYRY	3	HURLEY FORMATION
6	KINGSVALE GROUP	2	SHULAPS ULTRAMAFICS
		1	BRIDGE RIVER GROUP

AFTER TIPPER 1977, WOODSWORTH 1978

- BIG DOG PROJECT -

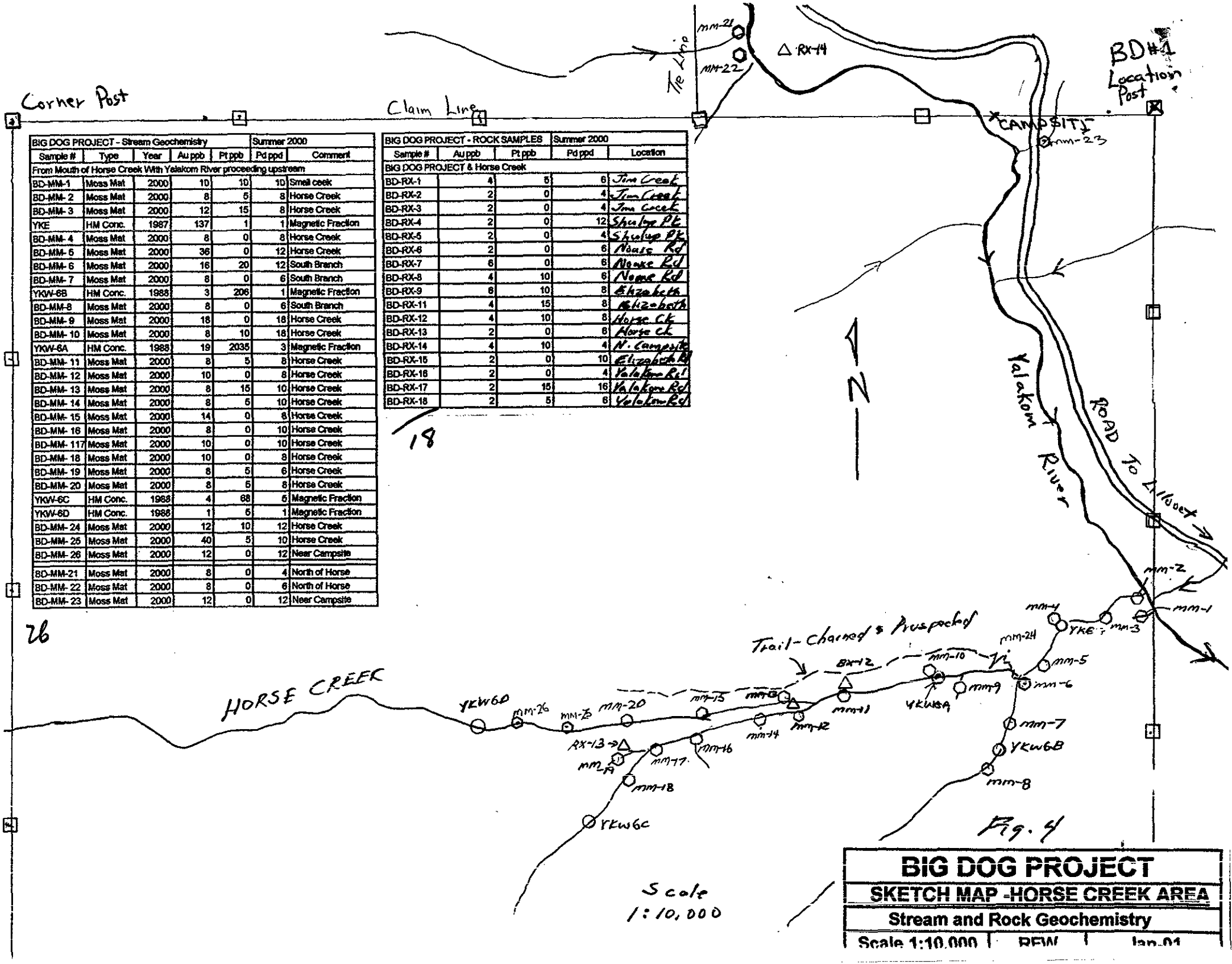
PROJECT AREA GEOLOGY

YALAKOM RIVER, B.C. ... LILLOOET M.D.

SCALE 1:250,000 | NTS 92J, 92O

DRAWN BJC. / FEB 88 | FIGURE 3

REVISED: RFW/JAN 01



BIG DOG PROJECT - Stream Geochemistry					Summer 2000	
Sample #	Type	Year	Au ppb	Pt ppb	Pd ppd	Comment
From Mouth of Horse Creek With Yalakom River proceeding upstream						
BD-MM-1	Moss Mat	2000	10	10	10	Small creek
BD-MM- 2	Moss Mat	2000	8	5	8	Horse Creek
BD-MM- 3	Moss Mat	2000	12	15	8	Horse Creek
YKE	HM Conc.	1987	137	1	1	Magnetic Fraction
BD-MM- 4	Moss Mat	2000	8	0	8	Horse Creek
BD-MM- 5	Moss Mat	2000	36	0	12	Horse Creek
BD-MM- 6	Moss Mat	2000	16	20	12	South Branch
BD-MM- 7	Moss Mat	2000	8	0	6	South Branch
YKW-6B	HM Conc.	1988	3	206	1	Magnetic Fraction
BD-MM-8	Moss Mat	2000	8	0	6	South Branch
BD-MM- 9	Moss Mat	2000	18	0	18	Horse Creek
BD-MM- 10	Moss Mat	2000	8	10	18	Horse Creek
YKW-6A	HM Conc.	1988	19	2035	3	Magnetic Fraction
BD-MM- 11	Moss Mat	2000	8	5	8	Horse Creek
BD-MM- 12	Moss Mat	2000	10	0	8	Horse Creek
BD-MM- 13	Moss Mat	2000	8	15	10	Horse Creek
BD-MM- 14	Moss Mat	2000	8	5	10	Horse Creek
BD-MM- 15	Moss Mat	2000	14	0	6	Horse Creek
BD-MM- 16	Moss Mat	2000	8	0	10	Horse Creek
BD-MM- 117	Moss Mat	2000	10	0	10	Horse Creek
BD-MM- 18	Moss Mat	2000	10	0	8	Horse Creek
BD-MM- 19	Moss Mat	2000	8	5	6	Horse Creek
BD-MM- 20	Moss Mat	2000	8	5	8	Horse Creek
YKW-6C	HM Conc.	1988	4	68	5	Magnetic Fraction
YKW-6D	HM Conc.	1988	1	5	1	Magnetic Fraction
BD-MM- 24	Moss Mat	2000	12	10	12	Horse Creek
BD-MM- 25	Moss Mat	2000	40	5	10	Horse Creek
BD-MM- 26	Moss Mat	2000	12	0	12	Near Campsite
BD-MM-21	Moss Mat	2000	8	0	4	North of Horse
BD-MM- 22	Moss Mat	2000	8	0	6	North of Horse
BD-MM- 23	Moss Mat	2000	12	0	12	Near Campsite

BIG DOG PROJECT - ROCK SAMPLES				Summer 2000	
Sample #	Au ppb	Pt ppb	Pd ppd	Location	
BIG DOG PROJECT & Horse Creek					
BD-RX-1	4	5	6	Jim Creek	
BD-RX-2	2	0	4	Jim Creek	
BD-RX-3	2	0	4	Jim Creek	
BD-RX-4	2	0	12	Shallop Pk	
BD-RX-5	2	0	4	Shallop Pk	
BD-RX-6	2	0	6	Noaks Rd	
BD-RX-7	6	0	6	Noaks Rd	
BD-RX-8	4	10	6	Noaks Rd	
BD-RX-9	6	10	8	Elizabeth	
BD-RX-11	4	15	8	Elizabeth	
BD-RX-12	4	10	8	Horse Ck	
BD-RX-13	2	0	6	Horse Ck	
BD-RX-14	4	10	4	N. Campsite	
BD-RX-15	2	0	10	Elizabeth Rd	
BD-RX-16	2	0	4	Yalakom Rd	
BD-RX-17	2	15	16	Yalakom Rd	
BD-RX-18	2	5	6	Yalakom Rd	

18

26

Fig. 4

BIG DOG PROJECT

SKETCH MAP -HORSE CREEK AREA

Stream and Rock Geochemistry

Scale 1:10,000 | REW | Jan.01

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

To: KLEINEBAR RESOURCES LTD. **

3000 WALTON AVE.
COQUITLAM, BC
V3B 6V6

Project :
Comments: ATTN: ROBERT WEICKER

Page Number :1-A
Total Pages :1
Certificate Date: 24-OCT-2000
Invoice No. :I0031455
P.O. Number :
Account :SKM

CERTIFICATE OF ANALYSIS A0031455

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	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 %
BD-MM-1	201	202	10	10	10	< 0.2	0.91	6	< 10	40	< 0.5	2	0.39	< 0.5	67	633	18	4.75	< 10	< 1	0.05
BD-MM-2	201	202	8	5	8	< 0.2	0.91	4	< 10	40	< 0.5	< 2	0.41	< 0.5	61	634	17	4.61	< 10	< 1	0.04
BD-MM-3	201	202	12	15	8	< 0.2	1.03	2	< 10	50	< 0.5	< 2	0.45	< 0.5	64	619	18	4.06	< 10	< 1	0.04
BD-MM-4	201	202	8	< 5	8	< 0.2	0.99	2	< 10	50	< 0.5	< 2	0.43	< 0.5	66	646	19	4.89	< 10	< 1	0.03
BD-MM-5	201	202	36	< 5	12	< 0.2	0.97	4	< 10	40	< 0.5	< 2	0.42	< 0.5	59	610	18	4.50	< 10	< 1	0.04
BD-MM-6	201	202	16	20	12	< 0.2	0.97	6	< 10	70	< 0.5	2	1.11	< 0.5	24	595	18	2.33	< 10	< 1	0.04
BD-MM-7	201	202	8	< 5	6	< 0.2	1.05	6	< 10	60	< 0.5	< 2	0.77	< 0.5	32	639	12	2.71	< 10	< 1	0.04
BD-MM-8	201	202	8	< 5	6	< 0.2	0.85	4	< 10	50	< 0.5	< 2	0.62	< 0.5	28	553	11	2.38	< 10	< 1	0.04
BD-MM-9	201	202	18	< 5	18	< 0.2	0.44	2	10	100	< 0.5	< 2	1.71	< 0.5	10	522	40	0.93	< 10	< 1	0.08
BD-MM-10	201	202	8	10	8	0.2	1.00	6	< 10	40	< 0.5	2	0.44	< 0.5	62	638	19	4.66	< 10	< 1	0.04
BD-MM-11	201	202	8	5	8	< 0.2	0.98	2	< 10	50	< 0.5	< 2	0.42	< 0.5	59	608	18	4.36	< 10	< 1	0.04
BD-MM-12	201	202	10	< 5	8	< 0.2	0.89	8	< 10	40	< 0.5	2	0.39	< 0.5	68	617	15	4.41	< 10	< 1	0.04
BD-MM-13	201	202	8	15	10	< 0.2	1.18	2	< 10	60	< 0.5	2	0.51	< 0.5	59	661	21	4.92	< 10	< 1	0.03
BD-MM-14	201	202	8	5	10	< 0.2	0.83	6	< 10	30	< 0.5	< 2	0.33	< 0.5	71	647	14	4.57	< 10	< 1	0.03
BD-MM-15	201	202	14	< 5	8	0.2	0.86	6	< 10	30	< 0.5	< 2	0.36	< 0.5	70	665	17	5.09	< 10	< 1	0.04
BD-MM-16	201	202	8	< 5	10	< 0.2	0.89	6	< 10	30	< 0.5	2	0.36	< 0.5	70	642	16	4.77	< 10	< 1	0.04
BD-MM-17	201	202	10	< 5	10	< 0.2	0.79	8	< 10	30	< 0.5	< 2	0.34	< 0.5	74	636	13	4.22	< 10	< 1	0.03
BD-MM-18	201	202	10	< 5	8	< 0.2	0.91	6	< 10	30	< 0.5	2	0.37	< 0.5	64	632	16	4.65	< 10	< 1	0.04
BD-MM-19	201	202	8	5	6	< 0.2	0.86	2	< 10	70	< 0.5	< 2	0.61	< 0.5	35	523	17	3.11	< 10	< 1	0.03
BD-MM-20	201	202	8	5	8	< 0.2	1.20	2	< 10	60	< 0.5	< 2	0.49	< 0.5	59	637	22	4.29	< 10	< 1	0.04
BD-MM-21	201	202	8	< 5	4	< 0.2	2.58	6	< 10	100	< 0.5	4	1.20	< 0.5	11	39	28	3.30	< 10	< 1	0.08
BD-MM-22	201	202	8	< 5	6	< 0.2	2.26	6	< 10	70	< 0.5	2	1.03	< 0.5	12	36	30	2.73	< 10	< 1	0.11
BD-MM-23	201	202	12	< 5	12	< 0.2	1.70	4	< 10	50	< 0.5	< 2	1.15	< 0.5	8	31	24	2.37	< 10	< 1	0.07
BD-MM-24	201	202	12	10	12	< 0.2	1.91	4	< 10	90	< 0.5	< 2	0.60	< 0.5	16	238	19	2.22	< 10	< 1	0.09
BD-MM-25	201	202	40	5	8	< 0.2	0.94	4	< 10	40	< 0.5	6	0.43	< 0.5	63	633	20	5.33	< 10	< 1	0.03
BD-MM-26	201	202	10	10	8	< 0.2	1.05	6	< 10	50	< 0.5	2	0.45	< 0.5	67	667	20	4.79	< 10	< 1	0.03

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

To: KLEINEBAR RESOURCES LTD. **

3000 WALTON AVE.
COQUITLAM, BC
V3B 6V6

Project :
Comments: ATTN: ROBERT WEICKER

Page Number :1-B
Total Pages :1
Certificate Date: 24-OCT-2000
Invoice No. :I0031455
P.O. Number :
Account :SKM

CERTIFICATE OF ANALYSIS A0031455

SAMPLE	PREP CODE		La ppm	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
BD-MM-1	201	202	< 10	13.35	570	< 1	0.01	1285	360	< 2	0.03	< 2	7	34	0.04	< 10	< 10	40	< 10	44
BD-MM-2	201	202	< 10	13.10	535	< 1	0.01	1225	260	< 2	0.02	2	7	31	0.04	< 10	< 10	41	< 10	40
BD-MM-3	201	202	< 10	12.65	560	< 1	0.01	1215	290	< 2	0.03	2	7	34	0.05	< 10	< 10	41	< 10	40
BD-MM-4	201	202	< 10	12.65	595	< 1	0.01	1240	270	< 2	0.02	2	7	33	0.05	< 10	< 10	43	< 10	40
BD-MM-5	201	202	< 10	11.85	560	< 1	0.01	1120	270	< 2	0.02	2	7	31	0.05	< 10	< 10	44	< 10	40
BD-MM-6	201	202	< 10	5.08	375	1	0.03	486	620	< 2	0.10	2	3	93	0.06	< 10	< 10	37	< 10	32
BD-MM-7	201	202	< 10	6.96	465	1	0.02	591	500	< 2	0.07	4	4	69	0.07	< 10	< 10	47	< 10	38
BD-MM-8	201	202	< 10	6.04	395	< 1	0.02	526	410	< 2	0.06	< 2	4	53	0.06	< 10	< 10	39	< 10	34
BD-MM-9	201	202	< 10	1.76	285	2	0.03	593	850	< 2	0.13	2	< 1	73	0.01	< 10	< 10	13	< 10	18
BD-MM-10	201	202	< 10	12.40	565	< 1	0.01	1195	310	< 2	0.03	2	7	32	0.05	< 10	< 10	45	< 10	40
BD-MM-11	201	202	< 10	11.90	565	1	0.01	1115	290	< 2	0.02	< 2	7	31	0.05	< 10	< 10	44	< 10	38
BD-MM-12	201	202	< 10	13.05	610	< 1	0.01	1255	240	< 2	0.02	2	7	42	0.04	< 10	< 10	39	< 10	36
BD-MM-13	201	202	< 10	11.55	610	< 1	0.01	1080	350	< 2	0.02	< 2	8	28	0.07	< 10	< 10	56	< 10	46
BD-MM-14	201	202	< 10	13.90	595	< 1	0.01	1315	190	< 2	0.02	2	7	36	0.03	< 10	< 10	37	< 10	32
BD-MM-15	201	202	< 10	13.10	615	< 1	0.01	1270	220	< 2	0.02	< 2	7	38	0.04	< 10	< 10	43	< 10	38
BD-MM-16	201	202	< 10	13.00	670	< 1	0.01	1300	220	< 2	0.02	2	7	38	0.04	< 10	< 10	40	< 10	38
BD-MM-17	201	202	< 10	14.90	685	< 1	0.01	1430	200	< 2	0.02	2	7	30	0.02	< 10	< 10	33	< 10	32
BD-MM-18	201	202	< 10	12.70	595	< 1	0.01	1205	240	< 2	0.02	< 2	7	45	0.04	< 10	< 10	42	< 10	38
BD-MM-19	201	202	< 10	7.56	400	< 1	0.02	680	350	< 2	0.04	2	5	52	0.06	< 10	< 10	40	< 10	40
BD-MM-20	201	202	< 10	12.10	610	< 1	0.01	1130	350	< 2	0.03	2	8	27	0.06	< 10	< 10	47	< 10	48
BD-MM-21	201	202	< 10	1.12	515	1	0.05	38	750	6	0.03	2	8	196	0.17	< 10	< 10	92	< 10	70
BD-MM-22	201	202	< 10	0.94	490	1	0.03	41	470	2	0.03	2	8	204	0.12	< 10	< 10	67	< 10	56
BD-MM-23	201	202	< 10	0.76	290	1	0.04	26	570	4	0.05	4	5	134	0.15	< 10	< 10	73	< 10	52
BD-MM-24	201	202	< 10	2.08	685	1	0.02	430	540	2	0.04	2	5	35	0.05	< 10	< 10	25	< 10	44
BD-MM-25	201	202	< 10	11.25	550	< 1	0.01	1090	270	< 2	0.03	4	7	30	0.06	< 10	< 10	52	< 10	40
BD-MM-26	201	202	< 10	13.05	625	1	0.01	1245	280	< 2	0.02	2	7	32	0.05	< 10	< 10	45	< 10	40

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: KLEINEBAR RESOURCES LTD.

3000 WALTON AVE.
COQUITLAM, BC
V3B 6V6

A0031454

Comments: ATTN: ROBERT WEICKER

CERTIFICATE A0031454

(SKM) - KLEINEBAR RESOURCES LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-OCT-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	19	Geochem ring to approx 150 mesh
226	19	0-3 Kg crush and split
3202	19	Rock - save entire reject
229	19	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 1 of 2

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	19	Au ppb: FA ICP package	FA-ICP	2	10000
976	19	Pt ppb: FA ICP package	FA-ICP	5	10000
977	19	Pd ppb: FA ICP package	FA-ICP	2	10000
2118	19	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	19	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	19	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	19	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	19	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	19	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	19	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	19	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	19	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	19	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	19	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	19	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	19	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	19	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	19	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	19	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	19	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	19	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	19	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	19	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	19	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	19	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	19	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	19	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	19	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	19	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	19	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	19	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	19	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	19	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	19	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	19	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	19	W ppm: 32 element, soil & rock	ICP-AES	10	10000

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To: KLEINEBAR RESOURCES LTD.

3000 WALTON AVE.
COQUITLAM, BC
V3B 6V6

A0031454

Comments: ATTN: ROBERT WEICKER

CERTIFICATE A0031454

(SKM) - KLEINEBAR RESOURCES LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-OCT-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	19	Geochem ring to approx 150 mesh
226	19	0-3 Kg crush and split
3202	19	Rock - save entire reject
229	19	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 2 of 2

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2149	19	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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COQUITLAM, BC
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Total Pages :1
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CERTIFICATE OF ANALYSIS A0031454

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	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 %
BD-RX-1	205	226	4	< 5	6	< 0.2	0.24	< 2	50	10	< 0.5	< 2	0.04	< 0.5	79	614	5	3.33	< 10	< 1	< 0.01
BD-RX-2	205	226	2	< 5	4	0.2	3.18	< 2	< 10	< 10	< 0.5	2	4.13	< 0.5	29	191	101	3.69	< 10	< 1	0.04
BD-RX-3	205	226	2	< 5	4	< 0.2	1.62	2	< 10	< 10	< 0.5	< 2	0.43	< 0.5	16	108	71	3.09	< 10	< 1	0.03
BD-RX-4	205	226	2	< 5	12	0.2	0.40	< 2	40	10	< 0.5	2	0.06	< 0.5	72	1060	14	3.41	< 10	< 1	< 0.01
BD-RX-5	205	226	2	< 5	4	< 0.2	2.14	< 2	< 10	20	< 0.5	< 2	0.77	< 0.5	16	137	96	2.74	< 10	< 1	0.01
BD-RX-6	205	226	2	< 5	6	< 0.2	1.07	8	< 10	40	< 0.5	< 2	0.19	< 0.5	8	76	47	2.03	< 10	< 1	0.11
BD-RX-7	205	226	6	< 5	6	< 0.2	1.98	8	< 10	410	< 0.5	2	0.51	< 0.5	5	28	84	3.65	< 10	< 1	0.21
BD-RX-8	205	226	4	10	6	< 0.2	0.94	14	< 10	240	< 0.5	< 2	0.38	< 0.5	10	77	94	2.31	< 10	< 1	0.12
BD-RX-9	205	226	6	10	8	< 0.2	0.18	18	< 10	10	< 0.5	< 2	0.91	< 0.5	62	420	15	3.28	< 10	< 1	0.01
BD-RX-11	205	226	4	15	8	< 0.2	0.13	< 2	< 10	< 10	< 0.5	< 2	0.08	< 0.5	90	287	9	4.36	< 10	< 1	< 0.01
BD-RX-12	205	226	4	10	8	< 0.2	0.18	< 2	30	< 10	< 0.5	2	0.10	< 0.5	83	407	11	3.86	< 10	< 1	< 0.01
BD-RX-13	205	226	2	< 5	6	< 0.2	0.91	2	< 10	40	< 0.5	< 2	0.35	< 0.5	6	90	52	1.58	< 10	< 1	0.07
BD-RX-14	205	226	4	10	4	< 0.2	0.64	8	< 10	30	0.5	2	0.69	< 0.5	17	43	34	3.90	< 10	< 1	0.05
BD-RX-15	205	226	2	< 5	10	< 0.2	0.55	2	10	40	< 0.5	6	2.73	< 0.5	90	578	16	5.66	< 10	< 1	0.02
BD-RX-16	205	226	2	< 5	4	< 0.2	2.95	6	< 10	30	< 0.5	2	1.30	< 0.5	11	35	29	3.87	10	< 1	0.18
BD-RX-17	205	226	2	15	16	< 0.2	0.18	< 2	40	10	< 0.5	2	0.10	< 0.5	88	440	10	4.16	< 10	< 1	< 0.01
BD-RX-18	205	226	2	5	6	< 0.2	4.13	2	10	200	< 0.5	2	2.88	< 0.5	17	22	30	4.03	10	< 1	0.09
KH-1	205	226	4	< 5	6	0.2	0.07	240	< 10	100	< 0.5	< 2	0.03	< 0.5	6	121	8	2.41	< 10	1	0.06
KH-2	205	226	242	< 5	6	6.2	1.16	2	< 10	70	< 0.5	30	6.91	2.0	7	40	1580	1.10	< 10	< 1	0.14

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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CERTIFICATE OF ANALYSIS A0031454

SAMPLE	PREP CODE		La ppm	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
BD-RX-1	205	226	< 10	>15.00	480	< 1	< 0.01	1610	10	< 2	0.05	< 2	6	4	< 0.01	< 10	< 10	16	< 10	16
BD-RX-2	205	226	< 10	3.49	655	1	0.03	106	140	< 2	0.01	2	15	47	0.04	< 10	< 10	88	< 10	40
BD-RX-3	205	226	< 10	1.67	450	2	0.06	88	950	< 2	0.25	4	3	9	0.26	< 10	< 10	36	< 10	36
BD-RX-4	205	226	< 10	14.85	500	< 1	< 0.01	1480	20	< 2	0.01	< 2	12	4	< 0.01	< 10	< 10	31	< 10	28
BD-RX-5	205	226	< 10	2.09	380	1	0.03	44	270	< 2	0.04	4	2	11	0.20	< 10	< 10	35	< 10	36
BD-RX-6	205	226	< 10	1.02	320	4	0.01	105	180	< 2	0.15	< 2	4	10	< 0.01	< 10	< 10	17	< 10	26
BD-RX-7	205	226	< 10	0.75	635	2	0.04	38	670	6	0.05	4	9	37	0.20	< 10	< 10	30	< 10	104
BD-RX-8	205	226	< 10	0.42	1710	7	0.03	43	350	8	0.36	< 2	3	25	0.06	< 10	< 10	26	< 10	76
BD-RX-9	205	226	< 10	14.35	675	< 1	< 0.01	1270	< 10	< 2	0.05	< 2	6	21	< 0.01	< 10	< 10	10	< 10	12
BD-RX-11	205	226	< 10	>15.00	645	< 1	< 0.01	1900	30	< 2	0.01	< 2	4	4	< 0.01	< 10	< 10	8	< 10	22
BD-RX-12	205	226	< 10	>15.00	580	< 1	0.01	1725	10	< 2	< 0.01	2	4	3	< 0.01	< 10	< 10	11	< 10	18
BD-RX-13	205	226	< 10	1.30	285	2	0.01	46	190	2	0.03	< 2	4	14	0.07	< 10	< 10	24	< 10	40
BD-RX-14	205	226	< 10	0.15	645	< 1	0.02	28	360	< 2	< 0.01	< 2	15	37	< 0.01	< 10	< 10	110	< 10	70
BD-RX-15	205	226	< 10	10.30	1065	< 1	0.01	1890	20	< 2	< 0.01	2	13	123	< 0.01	< 10	< 10	35	< 10	16
BD-RX-16	205	226	< 10	1.37	555	1	0.04	16	600	6	< 0.01	6	11	58	0.27	< 10	< 10	111	< 10	70
BD-RX-17	205	226	< 10	>15.00	645	< 1	0.01	1885	60	< 2	< 0.01	< 2	4	4	< 0.01	< 10	< 10	13	< 10	24
BD-RX-18	205	226	< 10	1.85	755	2	0.05	15	610	2	< 0.01	10	14	606	0.21	< 10	< 10	117	< 10	74
KH-1	205	226	< 10	0.14	20	< 1	0.02	36	110	92	0.72	32	< 1	35	< 0.01	< 10	< 10	11	< 10	< 2
KH-2	205	226	10	0.42	445	11	0.07	17	420	16	0.43	2	3	180	0.06	< 10	< 10	28	< 10	336

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