BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1999/2000
REPORT #:	PAP 99-24
NAME:	UWE SCHMIDT

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations 15 to 17, page 6.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name UWE SCHMIDT Reference Number 99/2000 P50

LOCATION/COMMODITIES

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

Location of Project Area NTS 93K/16 Lat 54° 50' Long 124° 15'

Description of Location and Access _____

Main Commodities Searched For gold, copper-gold

Known Mineral Occurrences in Project Area Tas (Au-Cu), MAX (porphyry prospect) Hat, DEM, BID (geochem anomalies)

WORK PERFORMED

1. Conventional Prospecting (area) 200 square km
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) TILL 90 SOIL 47 ROCK 35 PAN 18
4. Geophysical (type and line km) VLF-EM, SCINTILLOMETER, 10 line-km.
5. Physical Work (type and amount) 10 line-km, flagged control lines
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

SIGNIFICANT RESULTS

Commodities _____ Claim Name _____

Location (show on map) Lat. _____ Long _____ Elevation _____

Best assay/sample type 19.0 ppb Au in till, 32.2 ppb Au in rock

Description of mineralization, host rocks, anomalies A promising gold anomaly was outlined in till. However, the sample density was too low to define a staking target. A conductive zone on the Val 2 claims may be an extension of gold-bearing massive sulphide sheas/veins found on the adjacent Tas property.

Supporting data must be submitted with this TECHNICAL REPORT

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

SUMMARY REPORT ON

KALDER PROJECT, PROSPECTING PROGRAM

FORT ST. JAMES, BRITISH COLUMBIA

NTS 93K/16

BY

Uwe Schmidt

January 28, 2000

TABLE OF CONTENTS

Appendices

List of Illustrations

Photographs

1. INTRODUCTION

The Kalder project is a prospecting program submitted by the writer for funding under the B.C. prospectors' assistance program. The proposal was approved and carried out during the period from June 25 to July 28, 1999, with the assistance of Jason McLaughlin, a recent U.B.C. geology graduate.

The project is located approximately 40 to 60 km north of Fort St. James, in Central British Columbia. Prospecting targets are hosted by metasedimentary and volcanic rocks of the Takla Group and coeval plutons within the Quesnel Terrane. This area lies north of northwest trending Pinchi and Prince George faults, the dominant structural elements of the area. The Prince George Fault marks the boundary of the Quesnel and Cache Creek Terranes in the area.

Prospecting targets are based on regional lake sediment geochemical data, recently published surficial and bedrock mapping and the writer's previous experience in the area. Targets were selected by a statistical analysis of the raw geochemical data, selecting thresholds and comparing anomalous sites with magnetic and structural features. Six target areas were selected, but one was not examined to keep costs within the limits of the grant.

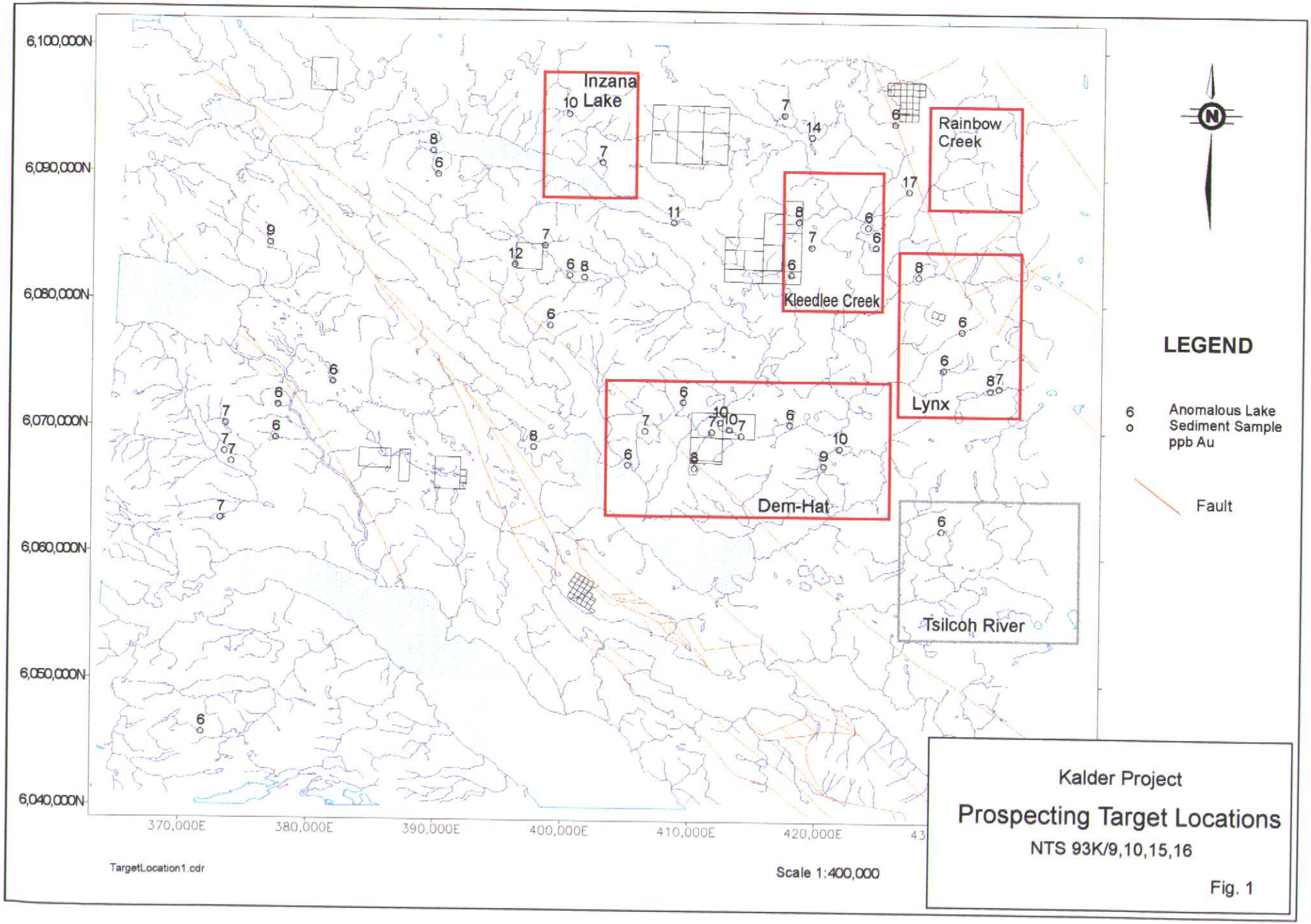
Targets were evaluated by a combination geochemical analysis of till, soil, rock, stream sediment and stream panning concentrates. A limited VLF-EM survey and a scintillometer survey were carried out in an area of deep overburden.

This report summarizes the work in five sections, each discussing a target, in the sequence that work was carried out. Field notes and data relevant to the target are presented at the end of each section but analytical results are appended to the report.

2. Location and Access

The project area is located approximately 40 to 60 km north of Fort St. James, in central British Columbia. The four prospecting targets are located primarily in NTS map area 93K/16. One area overlaps a portion of 93K/9 and a second target is located at the boundary of 93K/15 and 16.

All targets were accessible by road from Fort St. James via the Germansen Road, which provides


6,100,000N
6,090,000N
6,080,000N
6,070,000N
6,060,000N
6,050,000N
6,040,000N
370,000E
380,000E
390,000E
400,000E
410,000E
420,000E
Inzana Lake
Rainbow Creek
Kleedlee Creek
Lynx
Dem-Hat
Tsilcoh River
N
LEGEND
6 Anomalous Lake Sediment Sample ppb Au
Fault
TargetLocation1.cdr
Scale 1:400,000
Kalder Project
Prospecting Target Locations
NTS 93K/9,10,15,16
Fig. 1

all-season access to the area. Secondary logging roads extend east and west to provide access to the various prospecting targets. Additional local access is provided by numerous bulldozer trails and clear cuts. Traverses throughout the target areas were planned around this road network. A GPS navigation system with a truck-mounted antenna, provided navigation control for the many unmapped roads. The location of sample sites and isolated outcrops were also determined by GPS.

The network of logging roads is a great asset for mineral exploration. However, the recent practice, by the forest service, of deactivating unused roads, created unnecessary access problems on the Tezzeron F.S. road.

3. Physiography

The area lies with the Nechako Plateau at the northern edge of the Fraser Basin physiographic region. The area is predominantly covered by glacial till, with minor glaciofluvial and glaciolacustrine deposits (Plouffe, 1994). The terrain in the southern map area is characterized by low rolling hills with swamps and lakes in the low-lying areas. Elevations increase toward the northeast. Sampling strategies were adjusted in each target area based on this variation in topography. Till sampling was an effective sampling method in the two southern target areas. However, deep glaciofluvial gravel and sand deposits in Kleedlee Creek area made till sampling impractical. Rainbow target area is covered in part by glacial lake sediments and gravel deposits. Stream panning was used in this area to trace gold anomalies in stream sediments.

Glaciers moved from west to east in the southern map area and gradually turned northeastward in the northern half of the map area.

4. Regional Geology

The map area lies within Quesnel and Cache Creek Terranes. Four of the target areas are entirely within the Quesnel Terrane and the southern boundary of one target area straddles the boundary of the Cache Creek and Quesnel Terranes. This boundary is defined by the northwest trending Prince George Fault (Struik, 1998).

The erosional remnants of Miocene basalt flows are evident in the southeast map area, but these

rocks were not explored.

The Quesnel Terrane rocks are represented by an Early Mesozoic island-arc assemblage of the Takla Group. This group comprises sedimentary, volcanic, pyroclastic, epiclastic and coeval plutonic rocks of Upper Triassic to Early Jurassic time. The Takla Group was subdivided by Nelson et al (1991), into four informal successions. Of these, the predominantly sedimentary Inzana Lake Formation is the primary host rock of Early Jurassic and Cretaceous-Early Tertiary plutons in three of the four target areas. The fourth target area (Rainbow Road), is underlain by the volcanic-dominant Witch Lake Formation.

Mineral Deposits and Prospecting Model

This area has seen several episodes of mineral exploration. Early porphyry copper exploration occurred after the release of regional airborne magnetic maps by the G.S.C. in the late 1960's. Regional airborne EM and magnetic surveys in early 1980's led to the staking and drilling of several conductors for VMS deposits.

The most significant exploration success to date is the discovery of the Mt. Milligan Cu-Au porphyry deposit.

This alkalic porphyry system was discovered in 1987 and resulted in a reexamination of the porphyry potential of the project area. The Tas, Bio, Max and Hat properties were actively explored. Of these properties, the Tas has received the most work. Much of the drilling to date has centered on gold-bearing sulphide rich shear-veins, which are thought to be peripheral to an alkalic porphyry system.

Several exploration ideas were tested in 1999. In Dem-Hat area, the focus of the prospecting was precious metals, associated with Tertiary extension faults. This target area was chosen because of its proximity to the Pinchi and Prince George faults, lake sediment anomalies (Cook et al 1996) and regional magnetic trends. The Lynx area was chosen for similar reasons. Kleedlee Creek area was selected for its potential to host gold-bearing sulphide-rich shear/veins similar to the Tas Ridge Zone. Rainbow Creek area is an area of known placer gold. This area was resampled and the gold grains examined to determine provenance. Inzana Lake target is a multi-element lake sediment anomaly, associated with a very weak isolated magnetic anomaly. This location was

examined and sampled by stream panning.

5. Geochemistry

A total of 47 soil, 40 till, 35 rock and 18 panning concentrates were collected for geochemical analysis during the program. Sample numbers, types and sample densities varied for each area depending on the deposit model and surficial geology.

The largest concentration of samples was collected in Dem-Hat area. This is due in part to a large number of lake sediment anomalies to follow up, a fairly uniform blanket of till in the area and some prospecting success.

Till samples were collected by hand auger, shovel or a combination of both, depending on depth to undisturbed till. The hand auger, with extension, is capable sampling to a depth of 2 metres (Photo 1). This was usually not achieved because of the presence of cobble-sized fragments in the till. Sample depths in till ranged from 40 to 200 centimetres, with an average sample depth of approximately 90 cm.

Samples were analyzed by Acme Analytical Laboratories Ltd. of Vancouver. All till and soil samples, with the exception of four soil samples, were analyzed by 36 element ICP MS "ultra-trace" package using a 15 gm sample of -230 mesh screened material. This method samples the clay, silt fraction and ICP-MS has much lower detection limits than conventional ICP analysis.

Rock samples, panning concentrates and four soil samples were analyzed by standard ICP methods using a .5 gram sample with gold analyses done on a 10 gram aqua-regia digestion, MIBK extract and graphite furnace AA finish.

A few late gold analyses were analyzed directly by ICP-MS from the digested solution. This variation in technique was due to changes in analytical procedures at the laboratory. Geochemical analytical certificates are appended to this report.

Photo 1 Till sampling with auger

6. Prospecting Targets

Dem-Hat Area (Fig.2)

The Dem-Hat area is located approximately 40 km north of Fort St. James and is accessible via the Germansen road and Germansen-Hat F.S. road which heads west from the junction. The target area is approximately 11 by 20 km in size and encompasses 11 anomalous gold lake sediment samples. Aomalies range from 6 to 10 ppb Au.

The map area is underlain primarily by metasedimentary rocks of the Inzana Lake Formation of the Takla Group. At the southern edge of the map area, the Prince George Fault juxtaposes a mixed metasedimentary and volcanic assemblage of the Cache Creek Terrane against the Inzana Lake Formation. A Cretaceous-Early Tertiary pluton is mapped within the map area, west of Tezzeron Mountain.

Other outcrops of plutonic rocks were encountered during this program. These are equigranular medium grained diorites and are assumed to be related to the Early Jurassic intrusive event. Two mineral occurrences are known in the area. The Hat property was staked in 1986 and covers a small intrusion of Jurassic? hornblende diorite and Cretaceous-Early Tertiary quartz-feldspar porphyry intruded into shales, argillites and wackes. Work to date has included grid soil sampling, mapping and limited trenching. Weak multi-element geochemical soil anomalies with erratic gold values were outlined by this work.

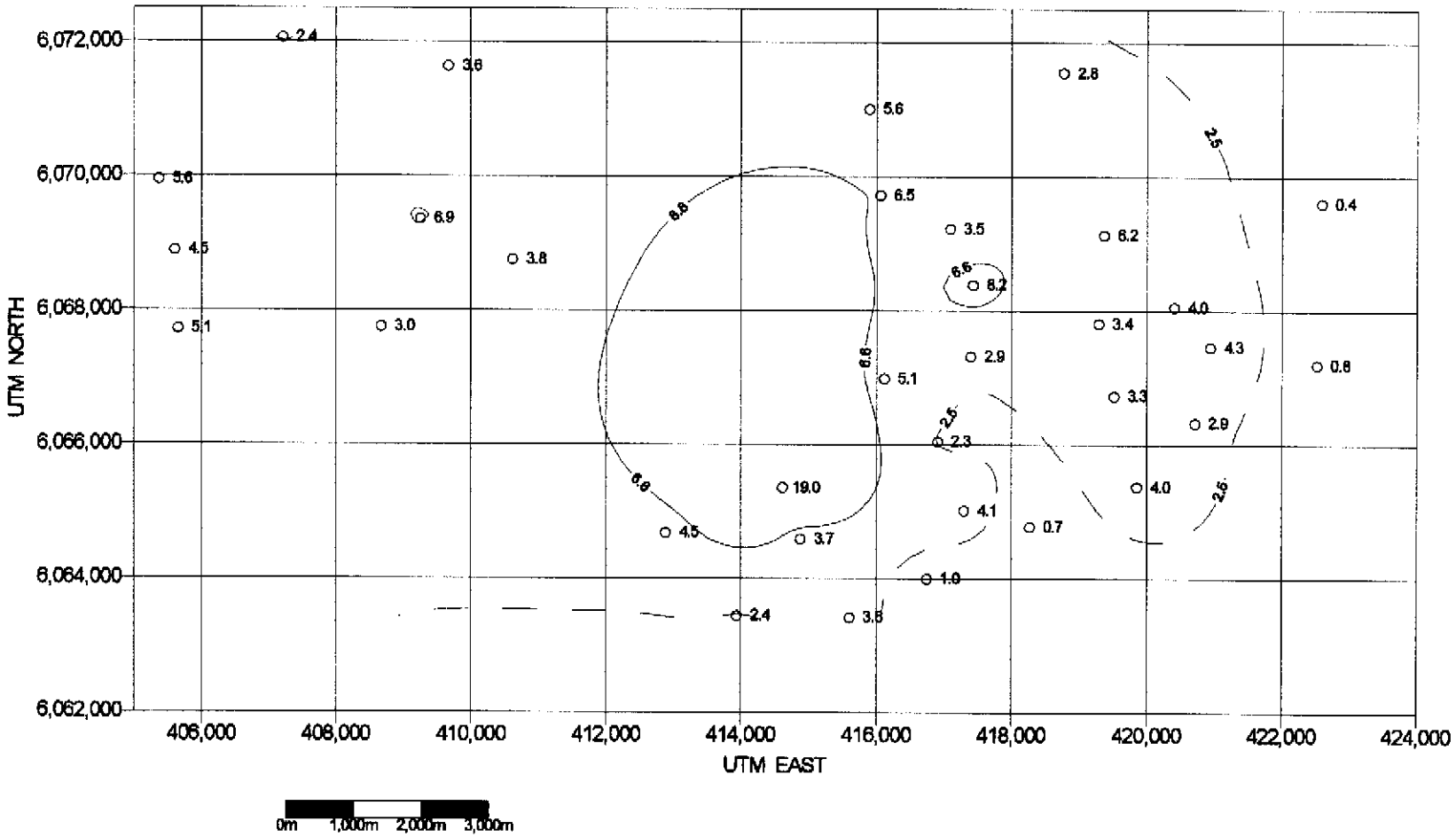
The second showing of interest is the Dem showing which was discovered by the B.C. Geological Survey and subsequently staked and explored by Noranda Exploration Company, Limited, in 1991. The Dem showing is located 1 km south of Dem Lake and is underlain by metasediments of the Inzana Lake Formation. The sedimentary rocks are intruded and altered by syenomonzonite dykes. Alteration of the host rocks ranges from hornfelsing to skarnification. The showing is reported to contain 5 to 10% arsenopyrite in a brecciated quartz vein. This material is geochemically anomalous in gold. Noranda explored the property by grid soil geochemical survey and mapping. Several multi-element anomalies were outlined with highs of 2100 ppb Au, 160 ppm Ag. One cluster of anomalies is coincident with steep terrain, shallow overburden and down-ice dispersion. The second anomaly lies in a low-lying area at the junction of two creeks.

The Dem-Hat map area was explored during the period from June 26 to July 14. A total of 45 soil, 33 till, 32 rock and 1 panning concentrate sample were collected. Sample locations, gold analytical results and outcrop locations are presented on Fig. 2, which is appended to this report. For clarity, interpreted gold analyses of till are presented on Fig. 3 and gold analyses of soil are presented on Fig. 4.

The aim of this portion of the project, besides conventional prospecting, was to outline possible source areas for lake sediment gold anomalies, reported by Cook et al (1996). The area is extensively covered by a glacial till blanket of moderate to shallow depth (Plouffe, 1994) and therefore till sampling was chosen as the most suitable technique. Attempts were made to orient sample lines across the direction of ice movement and to distribute sample locations evenly. Sample density and distribution, however, primarily reflect road access. A sample density of approximately 1 sample per 5 square kilometres was achieved over an area of 150 square kilometres.

A statistical analysis of the till data, using Probplot (Stanley 1987), revealed a mixture of three populations. The mean minus 2 standard deviations and the mean plus 2 standard deviations of population 2 were chosen as population boundaries. These values bracket 65% of the data. The two population boundaries are 2.5 and 6.6 ppb Au. The upper value of 6.6 ppb can be considered the anomalous threshold for gold in till. A contoured representation of the data (Fig. 3) shows that few samples exceed this threshold. Contour soil samples were collected in an area, underlain by hornfelsed metasediments, located a few kilometres north of Tezzeron Lake. Gold analyses for these samples are plotted on Fig. 4, as is one panning sample. No statistical analysis of the data was attempted. Analyses range from below threshold concentration of 0.2 ppb up to 38.9 ppb Au.

Thirty-two rock samples were analyzed. Most are float fragments, collected during prospecting. Carbonate alteration and veining was the most common alteration observed. In pelitic rocks this alteration occurred as orange-brown weathering selvages next to calcite-filled fractures (Photo2). Carbonate alteration along fractures in bedrock was observed in a number of gravel pits along the Germansen-Hat road. Less frequently this alteration was also observed in feldspar porphyry float boulders. In rare cases, pale green mica development accompanied the alteration. Pyrite was observed in a few boulders. The source of sulphide-bearing, carbonate-altered porphyry was not found.



LEGEND

Till Sample Location
○ Au in ppb

Statistical Boundaries

Population 1:2 2.5ppb
Population 2:3 6.6ppb

Kalder Lake Project 1999

Dem-Hat Area
Gold in Till

Date	File	NTS	Scale	Fig.
July 99	LynxAufig1.cdr	93K/16	1:100,000	3

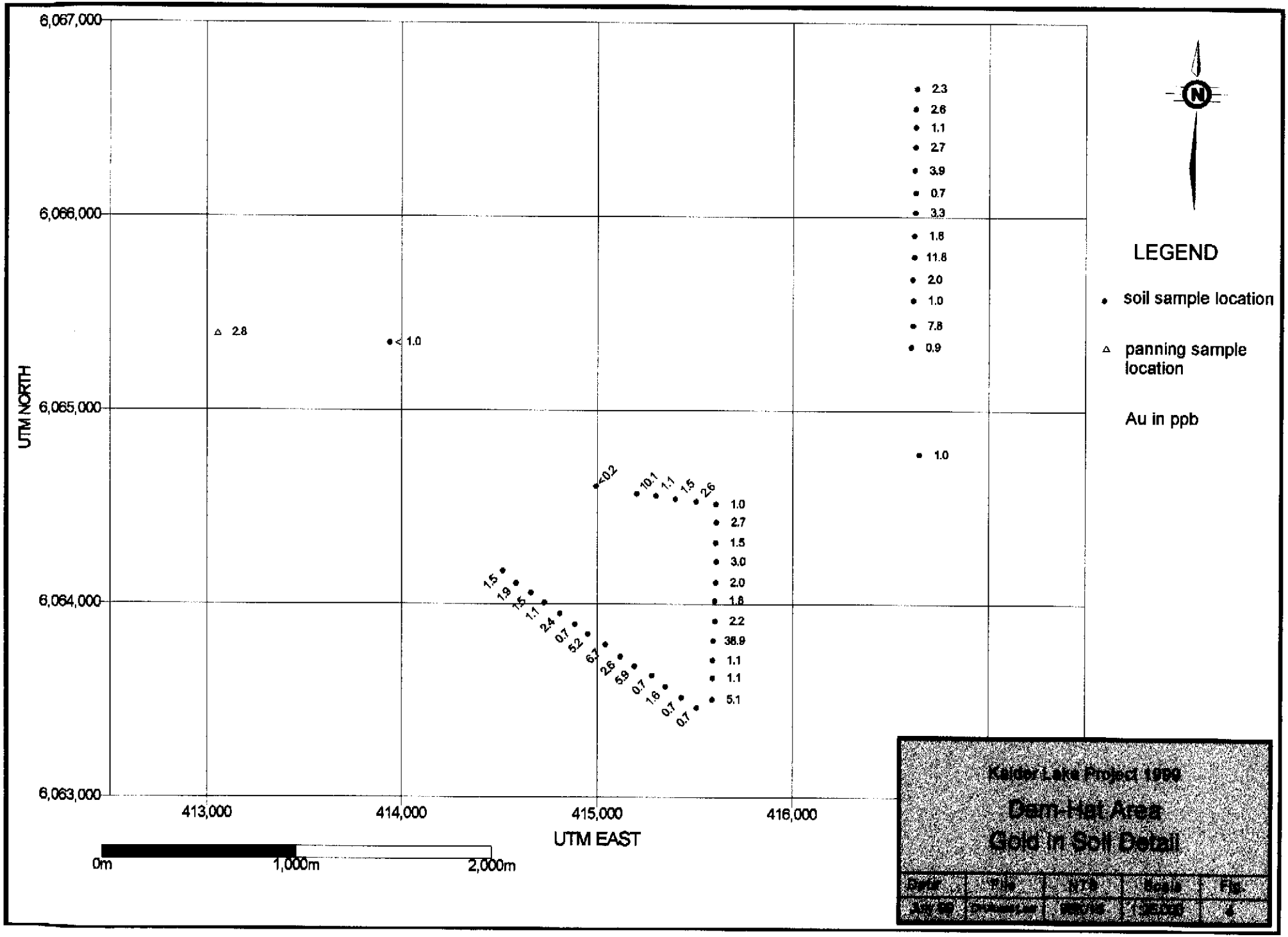

6,067,000
6,066,000
6,065,000
6,064,000
6,063,000
UTM NORTH
413,000
414,000
415,000
416,000
UTM EAST
0m
1,000m
2,000m
2.3
2.6
1.1
2.7
3.9
0.7
3.3
1.8
11.8
2.0
1.0
7.8
0.9
2.8
< 1.0
1.0
<0.2
10.1
1.1
1.5
2.6
1.0
2.7
1.5
3.0
2.0
1.8
2.2
38.9
1.1
1.1
5.1
1.5
1.9
1.5
1.1
2.4
0.7
5.2
6.7
2.6
5.9
0.7
1.8
0.7
0.7
LEGEND
soil sample location
panning sample location
Au in ppb
Kelder Lake Project 1990
Dam-Hat Area
Gold in Soil Detail
Date
File
NTS
Scale
Fig.
1 : 2000
4

Photo 2 Carbonate alteration and calcite veining

Gold analyses in rock ranged from <0.2 to 32.2 ppb Au. The highest analysis of sulphide-bearing float was 27 ppb. Other elements are uniformly low.

Discussion of Results

Till sampling in Dem-Hat map area outlined three anomalous samples up ice from lake sediment gold anomalies. Sample density is too low to define a source area. The data suggest there may be two source areas. One of these appears to be located west of the map area.

Carbonate alteration along fractures is fairly common in the metasediments of the Inzana Lake Formation (Photo 2). This style of alteration was observed in outcrop and float. Outcrop occurrences are often located in local gravel pits. This material was often used as ballast in logging road construction and consequently much of the altered float found along the roads is exotic.

Carbonate and silica altered feldspar porphyry is less common and was only observed as float. Rare fragments contain fine grained, fracture controlled, pyrite mineralization. Gold values up to 27 ppb Au were obtained from this style of mineralization. Although this is anomalous, it is well below economic interest.

A previously unmapped stock of medium grained, equigranular hornblende diorite was found 5.5 km east-southeast of Tezzeron Mountain. This stock is assumed to belong to the Jurassic intrusive suite. Hornfelsing is observed in the host rocks for several kilometres around the stock, suggesting the presence of a larger intrusive body at depth. A selected sample of the diorite contained 13 ppb Au but samples of hornfels were lower.

Forty-three soil samples were collected along hip-chain and compass surveyed lines, west of the diorite stock. The area is underlain by weakly hornfelsed argillite. Gold analyses range from <0.2 to 38.9 ppb Au (Fig. 4). No trends are apparent in the data.

Dem-Hat Area
Traverse Reports

BASAL TILL SAMPLING WITH AUGER

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-HAT Claim Group: RECCE Claim:
Sampler: U.S. - J.M. Traverse: RECCE Grid: Date: JUNE 28, 1999
Date Samples Sent: Date Results Received: Date Plotted:

	Sample Number	Line ~~(Northing)~~ (Easting) UTM	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99001	405367	6069943	C	70	Basal Till	PALE BROWN	TAKLA SHALE/ARGILLITE
02	GPS WPT W016							
03		PROFILE						
04					1cm	ORGANICS	BLACK	IN OLD LANDING
05					2-13	VERY DENSE CLAY TILL	PALE GREY	MATRIX SUPPORTED
06								PEBBLES & SAND OF
07								TAKLA SHALE/ARGILLITE
08					13-70		PALE BROWN	1-2cm PEBBLES, SUB
09								ANGULAR TAKLA ARGILLITE
10								MINOR OXIDIZED FRAGMENTS
11								
12					70			END OF HOLE DUG TO ROCK FRAGMENTS
13								
14	KD99002	405601	6068886		100	BASAL TILL	GREY BROWN	VERY DENSE CLAY
15	GPS WPT X017							WITH MATRIX SUPPORTED
16						OVERTURNED TREE NO ORGANICS		PEBBLES AND SAND
17								OF BLACK/SHALE/ARGILLITE
18								5% FRAGMENTS OXIDIZED
19					100	STOPPED	HOLE DUG	TO COBBLES
20								
21	WPT W021	405638E	6068231			N/S O/C		SMALL O/C & SUB O/C OF
22								
23								GREY GREEN F.G.
24								Q.F.P. 5m EXPOSURE
25								CALCITE VEINLETS, F.G. py
26								
27	KD99003	406652	6067714		110-120	CLAY BASAL TILL	GREY GREENISH BROWN	MED GREY, DENSE TILL
28	WPT W022							SUB ANGULAR TO SUB
29								ROUNDED PEBBLES 1-1.5cm
30								ALSO SAND & GRIT IN CLAY MATRIX >20% VOLUME
31								RED & YELLOW OXIDIZED WEATH
32								FRAGMENTS INCREASING
33						PROFILE		LAST 10 cm
34					0-10	ORGANICS	BLACK	
35					10-80	CLAY TILL	LIGHT BROWN TO BEIGE	
36					80-120	PEBBLY CLAY TILL	GREY GREEN BROWN	
37					120-125	GRITY CLAY	DARK GREY	
38								
39								
40	OUTCROPS LOCATED DURING TRAVERSE SEE OVER							

CLOSURE: Last Station before reaching Base Line: Distance to Base Line:
Line crosses BL m of Station
Daily Totals: Line-km Number of Samples:

WPT. W019 405634E 6067785N 2646 ft.

Small o/c of dark grey to black med grained equigranular altered mafic igneous rock? –
plag, hbl., secondary biotite-phlogopite?. (brown)
weakly calcareous on fracture surfaces.

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM - HAT Claim Group: _____ Claim: _____
Sampler: U.S / J.M. Traverse: RECCE Grid: _____ Date: JUNE 29, 99
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	W030 N/S	414910	6064260	C	150	SILT/CLAY	BEIGE	LAKE SEDS
02								
03	○ KD99004	414876	6064592	C	60	TILL	GREY-BROWN	
04	(W033)		PROFILE					
05					0-50	TILL & PEBBLES		SUB ANGULAR TO SUB
06						AND SAND SIZE FRAGMENTS		ROUNDED ARGILLITE
07								PEBBLES AND SAND (30-20%
08								IN DENSE CLAY MATRIX
09					50-60	SUB O/C		ANGULAR ARGILLITE FRAGMENTS IN DENSE
10								CLAY MATRIX
11	PIT							
12	○ KD99005	416905	6066049	C	60-65	TILL	PALE GREY-BEIGE	SUB ANGULAR PEBBLES
13	(W034)							AND SAND IN DENSE
14								MATRIX SUPPORTED CLAY
15					75	BEDROCK ?		ANGULAR ARGILLITE FRAG.
16								
17	W036	416232	6067088			O/C TALUS		5-5m O/C OF MED. GREEN
18								VOLCANIC DERIVED WACKE
19								60% LITHIC CLASTS OF
20	PIT & AUGER SAMPLE							BLACK ARGILLITE
21	○ KD99006	417396	6067318	C	110-120	GRITTY PEBBLY TILL	LIGHT GREY GREEN	- SANDY & PEBBLY CLAY
22	(W037)							
23					0-5	ORGANICS	DARK BRN	
24					5-95	TILL	MED RED BROWN	FRAGMENTS UP TO
25								COBBLE SIZE, MOST
26					5-30		PALE BEIGE	PEBBLES AN SAND SIZED
27					30-95		MED RED BRN	SUPPORTED IN DENSE CLAY
28								MATRIX
29					95-125	TILL	LIGHT GRY BRN	- PEBBLY & SANDY CLAY
30								MOST PEBBLES < 1cm 10-15
31								LOTS OF SAND SIZE 25%
32	(AUGER)							
33	○ KD99007	419365	6068131	C	100	TILL	GREENISH BRN	SANDY PEBBLY CLAY
34	(W038)				0-1	ORGANICS	DRK BRN	SANDY AND PEBBLY TILL
35				B	1-3		RED BRN	DENSE CLAY MATRIX
36					3-50		PALE BROWN	SOME COBBLE SIZE
37					50-100		GRY BRN	FRAGMENTS, MOST
38								PEBBLES < 1cm
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GPS Traverse by Truck, examined road o/c, traverse along deactivated Tezzeron F.S road.

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: HAT-DEM Claim Group: _____ Claim: _____
Sampler: U.S. - L.M. Traverse: _____ Grid: _____ Date: JUNE 30, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting) UTM	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99008	407213	6072060	C	70	DENSE TILL	MED GRY BRN	PEBBLES & SAND < 30%, MATRIX OF CLAY
02	PIT & AUGER		PROFILE		0-2	ORGANICS		
03	W039				2-15	SANDY, PEBBLY TILL	BEIGE	ROUNDED FRAGMENTS PEBBLE → 30%
04								
05					15-70	DENSE PEBBLY TILL IN CLAY MATRIX	MED DRK GREY	SUB ANGULAR ARGILLITE
06								PEBBLES 1-1.5cm. (10%)
07								CLAY 80%, SAND (10%)
08	KD99W040R01							
09	W040	407817	6071864	R		ROCK	RED BROWN	LIMONITIC, CARBONATE
10	PIT							ALTERED TAKLA METASED
11								IN CONTACT W/ QFP
12	W042	408898	6072201	R		PIT N/S	RED BROWN	CARBONATE ALTERED
13								TAKLA SILICICLASTIC ALONG FAULT
14	W043	409022	6071849	R		PIT N/S	GREY GREEN	TAKLA SILICICLASTIC
15								ALSO HBL PORPHYRY
16								
17	KD99009	409667	6071641	C	80-90	DENSE PEBBLY TIL	MED DRK BRN	PEBBLES & SAND IN
18	W044		PROFILE		~~0-2~~			DENSE CLAY MATRIX
19	AUGER			A	0-2	ORGANICS		
20	15m SOUTH OF				2-60	SILTY CLAY &	BEIGE	
21	ROAD IN CLEARING					PEBBLES		
22					60-90	DENSE PEBBLY CLAY	DRK BRN	1-1.5cm MATRIX SUPPORTED
23								PEBBLES & MINOR SAND
24	KD99009-130	DUPLICATE			90-130	SILT & PEBBLES AND CLAY	DARK BRN	CLAY 40% SAND & SILT 40%
25								PEBBLES 20%
26								
27	W047	409611	6069693	R	N/S	PIT	DRK GRY TO	SILICICLASTIC TO ARGILLITE
28							BLACK	MINOR FELDSPAR PORPH
29	KD99010	409253	6069361	C	40	TILL	MED GRY BRN	VERY DENSE TILL
30	W048							
31	WEST SIDE OF ROAD CUT				0-40	VERY HARD	MED GRY BRN	SUB ANGULAR COBBLES
32	PROBABLY 200cm BELOW	SURFACE				PEBBLY TILL		UP TO 10%, 1-3cm
33								PEBBLES SUPPORTED IN
34								GRITTY CLAY
35								
36	KD99011	408674	6069753	C	60	VERY DENSE TILL	DRK GRY BRN	20% PEBBLES → 2cm
37	W051		PROFILE		0-60			SOME SUB ANGULAR
38	WEST SIDE OF ROAD CUT							COBBLES
39	PROBABLY 200 cm BELOW	SURFACE						SUB ANGULAR ARGILLITE
40								FRAGMENTS

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

Till sampling N of Germansen-Hat & Destlay Lake area.

GEOCHEMICAL SAMPLING REPORT

Project: KALDEN Property: DEM-HAT Area Claim Group: _____ Claim: _____
Sampler: UC - JM Traverse: _____ Grid: _____ Date: JULY 1, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99012 o	416056	6069717	C	60	TILL	MED GRY BRN	MATRIX SUPPORTED PEBBLES
02	W052							AND SAND IN CLAY
03			PROFILE	C	0-60	PEBBLY SANDY TILL	"	MATRIX (VERY HARD)
04						SOME SUB ANGULAR		PEBBLES & 20% 7 Avg
05						COBBLES		SOME OXIDIZED
06								
07	KD99013 o	417093	6069220	C	80	TILL	MED GRY BRN	
08	W054							
09	ROAD CUT			C	0-2	ORGANICS	PALE RED BRN	OXIDIZED
10	SOUTH SIDE			C	2-50	SANDY PEBBLY	GRY GRN - BRWN	DENSE BASAL TILL
11	PIT					CLAY		ANGULAR ROCK FRAGMNTS
12				C	50-100			DECOMPOSING META PELLITE
13				R	100	BEDROCK	DARK BRN	DECOMPOSING PELLITIC
14								META SEDS
15								
16	KD99014 o	415890	6071006	C	80-90	DENSE TILL	DRK OLIVE BRN	SUB ANGULAR PEBBLY TILL
17	PIT		PROFILE					
18	W055			A	0-1	ORGANICS		
19					1-40	SANDY PEBBLY	LIGHT BRN	LEACHED TILL?
20						CLAY		
21				C	40-90	DENSE TILL	DRK OLIVE BRN	SUB ANGULAR PEBBLES
22								OF TAKLA ARGILLITE
23								AND SAND IN DENSE
24								CLAY MATRIX
25						FRAGMENTS	UP TO 40%	SOME COBBLES
26								
27	KD99015 o	418768	6071555	C	70-80	TILL	MED OLIVE BRN	PEBBLES & GRIT < 20%
28	W057		PROFILE					
29	AUGER, EAST			A	0-2	ORGANICS		
30	SIDE OF ROAD			C	2-35	SANDY & PEBBLY	LIGHT BRN	(LEACHED TILL?)
31						CLAY		
32				C	35-80	DENSE TILL	MED OLIVE BRN	GRIT & PEBBLES SUPPORTED
33								IN DENSE CLAY MATRIX
34								
35	KD99016 o	420936	6067459	C	70-80	TILL	DRK BRN	
36	AUGER SAMPLE				0-1	ORGANICS		
37	W058				1-40	PEBBLY, SANDY, CLAY	LIGHT BRN TO BEIGE	
38					40-80	DENSE TILL	DRK BRN	DENSE, GRITTY AND
39								PEBBLY CLAY, SUB-
40								ANGULAR ARGILLITE CLASTS

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-MAT AREA Claim Group: _____ Claim: _____
Sampler: US-JM Traverse: _____ Grid: _____ Date: JULY 1, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting)	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99017	420398	6068054		60-70	DENSE CLAYTILL	GRY BRN	
02	W059							
03	AUGER			A	0-1	ORGANICS		
04	WEST OF ROAD			C	1-60	SANDY & PEBBLY	PALE BEIGE	LEACHED ?
05						CLAY TILL		
06				C	60-70	DENSE TILL	GRY BRN	PEBBLY & SANDY TILL
07								1-1.5cm PEBBLES
08								ARGILLITE
09						TOO ROCKY	TO CONTINUE	
10								
11	ROCKS							
12	W058	ROCK GEOCHEM		R		QTZ, CARBONATE ALTERED QTZ PORPHYRY		
13	KD99W058					AND MIXED BRECCIA FLOAT, VEINING		
14						AND OPEN SPACE FILLING		
15								
16								
17						→ Silica & carbonate along open spaced		
18						fractures,		
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

TILL SAMPLING TRAVERSE AROUND WEST SIDE OF DESTLAY LAKE

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: KEM-MAT AREA Claim Group: _____ Claim: _____
Sampler: U.S.-JM Traverse: KD 0702 Grid: _____ Date: JULY 2, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99018	419288	6067813	C	90	TILL	PALE OLIVE BRN	
02	W061							
03	AUGER			A	0-1	ORGANICS		
04				C	1-93	DENSE TILL	PALE OLIVE BRN	1-1.5cm PEBBLES <20%
05								MAINLY ARGILLITE ALSO
06								FINER SAND & GRIT IN
07								CLAY MATRIX
08								
09	KD99019	419512	6066730	C	≥90			
10	W062							
11	AUGER			A	0-1	ORGANICS		
12				C	1-93	DENSE TILL	MED GRY BRN	PEBBLES 1-1.5cm
13								ROUNDED TO SUB-ANGULAR
14								10-15% MAINLY BLACK
15								ARGILLITE, IN DENSE
16								CLAY MATRIX
17								
18	KD99020	419848	6065377	C		TILL	GRY OLIVE BRN	PEBBLES AND SAND
19	W063							
20	AUGER			A	0-1	ORGANICS		
21				C	1-20	PEBBLY CLAY	PALE BROWN TO BEIGE	LEACHED TILL?
22				C	20-100	PEBBLY TILL	GREY OLIVE BRN	.5-1 cm PEBBLES,
23								ANGULAR FRAGMENTS
24								OF ARGILLITE
25								SOME ROUNDED EXOTIC PEBBLES
26								
27	875m@045°AZ	OUTCROP		R		SILICEOUS	BLACK, RED	⊥ 020/90? VERY
28						ARGILLITE	BROWN WEATH.	SILICEOUS TAKLA ARGILLITE
29								MOTTLED TEXTURE IN PLACES
30								COULD BE HORNFELS
31								
32	KD99021	420707	6066328	C	110-116	PEBBLY TILL	MED OLIVE BRN	
33	(W064)							
34				A	0-2	ORGANICS		
35				C	2-40	SANDY PEBBLY TILL	PALE BRN	SANDY LESS CONSOLIDATED
36				C	40-116	PEBBLY TILL	MED OLIVE BRN	ANGULAR & ROUNDED
37								PEBBLES 1-1.5cm.
38								UP TO 20%, 2-5mm
39								ARGILLITE CLASTS COMMON
40							10%	CLAY MATRIX SUPPORTED

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

TRAVERSE DOWN TEZZERON ROAD AND TO DEM SHOWING

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-HAT AREA Claim Group: DEM Claim:
Sampler: Traverse: Grid: Date: JULY 3, 1999
Date Samples Sent: Date Results Received: Date Plotted:

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	W065	408273	6066721	R		o/c of feldspar porphyry located a few metres north of waypoint, typical light brown to beige feldspar porphyry		
02								
03								
04								
05						o/c South of Waypoint, rusty weathering med grey, fine grained wacke with isolated angular black argillite fragments, cut by white calcite veins upto 2cm wide at ± 300°/± 2 dipping NE and SW, also narrower vertical veins		
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17	after examining Dem claims							
18	came out at W068							
19								
20	W067	407074	6067907			centre of Dem 1-9 2-post claims		
21								
22	W068	408592	6067694	R	o/c			TEZZERON ROAD
23								
24								
25								
26								
27 ✓	KD99W068	ROCK GEOCHEM						
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

Till Sampling and Prospecting along Destlay Lake Road.

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: Dem-Hat Claim Group: _____ Claim: _____
Sampler: _____ Traverse: K00704 Grid: _____ Date: JULY 4, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99022	~~40~~						
02	W069	422519	6067198	C	80-95	TILL	GREY OLIVE BRN	PEBBLES < 1cm & SAND
03	AUGER			C	0-30	PEBBLY TILL	PALE BRN	
04				C	30-95	PEBBLY TILL	MED OLIVE BRN	PEBBLES < 1cm, 5-10%
05								SMALLER ANGULITE
06								FRAGMENTS
07				C	60		CHOC. BROWN	BLEBS, DECOMPOSED
08								VOLCANIC FRAGS. ?
09								
10	KD99W070	421945	6067317	R		RUSTY FLOAT	SILICIFIED &	CARBONATE ALTERED
11								AND VEINED TAKLA META SEDS?
12								
13	KD99070401	GC		R		FLOAT	PALE RED BRN	CARBONATE ALTERED
14								ROCK WITH BLACK MATRIX, OPEN
15								SPACE FILLING AND PALE
16								GREEN MANGANESE ALTERED
17								WHITE MOTTLED AREAS
18								
19	KD99070402	GC		R				Pale orange brown weathering carbonate
20								altered porphyry? breccia?, manganese
21								altered fragments or phenocrysts
22								
23	KD99070403	GC		R				Same as above with open space fractures
24								(LARGE BOULDER)
25	KD99070404	GC		R				RUSTY WEATHERING HBL diorite with diasm.
26								pyrrhotite.
27								
28	KD99070405	GC		R				Red BRN weathering, carbonate altered
29								breccia with dark grey siliceous
30								cement and evidence of open space filling
31								
32	KD99070406	GC		R				RUSTY WEATHERING MED GREY SILICICLASTIC
33								OR METAVOLCANICS, PY IN FRACTURES
34								WITH BLEACHED SELVAGES, E.G. SPOTTY
35								EPIDOTE ALONG FRACTURES, HORNFELS?!
36								
37	KD99070407	GC		R				BRIGHT ORANGE WEATHERING, LIGHT GREY
38								SILICEOUS BRECCIA OR FLOW BANDED ACID VOLC?
39								WITH CARBONATE ALTERATION
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-MAT Claim Group: _____ Claim: _____
Sampler: _____ Traverse: KD 0704 Grid: _____ Date: JULY 4, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting)	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99 070408	■ G.C.		h		ROUNDED COBBLE WITH	RED-ORANGE OXIDE	
02						IN SOME AREAS, BLACK, SILICEOUS		
03						(HYDROTHERMAL BRECCIA? OR VEIN)		
04						CARBONATE ALTERED LITHIC CLASTS,		
05						PORPHYRITIC CLASTS PALE GREY-GREEN		
06						(RHYOLITE PORPHYRY), ROUNDED TO ANGULAR		
07						- TRACE PYRITE IN SOME FRAGMENTS		
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
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CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

TILL SAMPLE

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-MAT Claim Group: _____ Claim: _____
Sampler: MS - JM Traverse: _____ Grid: _____ Date: JULY 5, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99023	422588	6~~0~~9609	C	140-150	TILL	MED OLIVE BRN	PEBBLES < 10%
02	PIT AND							
03	AUGER N.			A	0-1	ORGANICS		
04	SIDE OF ROAD			C	1-40	PEBBLE TILL	PALE BEIGE	PEBBLES 1-1.5cm <10%
05	(W071)							GRIT & SAND < 10%
06								CLAY MATRIX
07				C	40-150	TILL	MED OLIVE BRN	1cm PEBBLES < 10%
08								mm SCALE ARGILLITE
09								FRAGMENT < 10%
10								MATRIX SUPPORTED,
11								DENSE CLAY
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
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27								
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37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

TILL SAMPLING AND PROSPECTING

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-HAT AREA Claim Group: _____ Claim: _____
Sampler: US-JM Traverse: KD0706 Grid: _____ Date: JULY 6, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99024	417428	6068383	C	50	PEBBLY TILL	MED BROWN	1-2 cm PEBBLES 20% mm SCALE GRIT & SAND 20%
02	W072							
03	PIT			A	0-1	ORGANICS		CLAY MATRIX
04				C	1-36	PEBBLY TILL	LIGHT BROWN	
05								1-2 cm Pebbles 20%
06								mm Scale grit &
07								Sand 20 %, cobbles >25cm
08				C	36-50	PEBBLY TILL	MED BROWN	SAME AS ABOVE
09								BUT DARKER
10								
11	KD5001			B	SURFACE	SANDY CLAY	RED BROWN	OXIDIZED TILL IN
12								CLEAR CUT.
13								
14	W074	416671	6065180	O/C		SILICICLASTIC TO ARGILLITE WITH LAPILLI	MED GREY	STRONGLY JOINTED
15								OUTCROP, CARBONATE
16								VEINING, POSSIBLE
17								WEAK HORNFELSING
18								
19	W075	405995	6070907	O/C		PIT - CARBONATE ALTERED PALE		
20						RED BROWN WEATHERING BOULDERS		
21	PHOTO					WITH CM SCALE CALCITE VEINING ALONG		
22						JOINT SETS, BRITTLE DEFORMATION WITH		
23						CALCITE FILLING OPEN JOINTS		
24								
25	KD070601F			R		ROCK	PALE ORANGE BRN	CARBONATE & SILICA
26						FLOAT		ALTERED ROCK WITH
27								OPEN SPACE FILLING TEXTURE
28								
29	KD070602F			R		ROCK FLOAT	RUSTY WEATHERING	BLACK PYRITIC ARGILLITE
30								TAKLA GP, py 5-10%
31								HORNFELS
32								
33	KD070603			R		SUB O/C	MED-DARK GREY	POLYMICTIC PEBBLE
34								CONGLOMERATE TAKLA
35								GROUP, PALE GREEN
36								ALTERATION? OF MATRIX
37								
38	KD070604			R		ROCK FLOAT	DARK GREY	PYRITIC TAKLA
39								META SEDIMENTARY
40								HORNFELS

CLOSURE Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: RAM HAT AREA Claim Group: _____ Claim: _____
Sampler: US-JM Traverse: _____ Grid: _____ Date: JULY 6, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD070605			R		ROCK FLOAT	PALE ORANGE BRN	FE. CARBONATE ALTERED ROCK, IGNEOUS? WITH OPEN SPACE FILLING PALE GREEN ALTERATION OF FRAGMENTS? / PHENOCRYSTS?
02								
03								
04								
05								
06								
07								
08	KD070606			R		ROCK FLOAT	"	SAME AS ABOVE SHOWING FAULT SLICKENSIDES
09								
10								
11								
12	KD070607			R		ROCK FLOAT	PALE ORANGE BRN	FE CARBONATE ALTERED INTRUSIVE? PALE GREEN ALTERATION OF FRAGMENTS BLEBS OF DISSEMINATED V. FG. PYRITE
13								
14		SAME	BOULDER					
15								
16								
17								
18	KD070608			R		ROCK FLOAT		BLACK V. FG. SULFIDE VEIN / SILICA REPLACEMENT IN THIS BOULDER
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

PROSPECTING AND TILL SAMPLING

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: PEM-HAT AREA Claim Group: _____ Claim: _____
Sampler: US - JM Traverse: KD07008 Grid: _____ Date: JULY 8, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99025	417294	6065019	C	170	PEBBLY TILL	MED OLIVE BRN	CUT BANK
02	W083							
03	PIT			A	0-4	ORGANICS		
04				C	4-25	PEBBLY TILL	PALE GRY	
05				C	25-183	PEBBLY TILL	MED OLIVE BRN	ANGULAR ARGILLITE
06								FRAGMENTS 1-2cm
07								≈20% GRIT & SAND
08								< 10% VERY DENSE
09								CLAY MATRIX
10								
11	W084	417619	6064826					ROAD JUNCTION AT EDGE
12								OF CLEAR CUT
13	W085	417753	6064533	R	O/C	ALTERED Hbl	DIORITE O/C	EDGE OF CLEARCUT
14	W086	418090	6064506	R	O/C	" "	"	
15								
16	KD99026	418266	6064777	C	170	DENSE CLAY	MED GRY BRN	ANGULAR FRAGMENTS <10%
17	W087							
18				C	1-190	PEBBLY TILL	MED GRY BRN	MINOR PEBBLES UP
19								TO 7.5cm
20				C	140-170	PEBBLY TILL	MED GRY BRN	ANGULAR ARGILLITE
21								FRAGMENTS UP TO
22								10% SOME OXIDIZED
23								FRAGMENTS
24								
25	KD99027	416743	6063997	C	210	PEBBLY TILL	DRK GRY BRN	DENSE CLAY WITH
26	W088							2-5mm FRAGMENTS
27	PIT & AUGER							<10% MANY
28	CUT BANK							RED & YELLOW BROWN
29								OXIDE FRAGMENTS
30								
31	KD070801			R		ROCK O/C	DARK GRY	Hbl DIORITE, WITH
32								BIOTITE ALTERATION
33								
34	KD070802			R		ROCK FLOAT	PALE ORANGE BRN WEATHERING	DARK GREY PEBBLY
35								GREYWACKE TAKLA?
36								Fe CARBONATE ALTERED
37								WHITE CALCITE VEINING 1-2mm
38	KD070803			R		ROCK FLOAT	BLACK	MULTI STAGE BLACK
39								SILICA REPLACEMENT
40								OF TAKLA METASEDIMENT?

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: KALDEN Property: DGM-HAT AREA Claim Group: _____ Claim: _____
Sampler: US-JM Traverse: _____ Grid: _____ Date: JULY 9, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (~~Northing~~) (Easting)	Station (~~Easting~~) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD99028	413938	6063442	C	69	PEBBLY TILL	MED GRY BRN	
02	W091							
03	PIT			A	0-9	ORGANICS		
04				C	9-69	PEBBLY TILL	MED GRY BRN	VERY DENSE CLAY
05								MATRIX SUPPORTING
06								FRAGMENTS UP TO
07								FIST SIZE
08								10-15% PEBBLES
09								10% SMALL ARGILLITE
10								FRAGMENTS
11								
12	KD99029	412883	6064684					
13	W093			A	0-18	ORGANICS		
14				C	18-90	PEBBLY TILL	PALE BRN	
15				C	40-80	PEBBLY TILL	MED OLIVE BRN	COBBLES 10-15%
16								1-3cm PEBBLES 5-10%
17								2-5mm ANGULAR ARGILLITE
18								FRAGMENTS 10-15%
19						Cobbles of feldspar porphyry		
20								
21	△ KDP001	413056	6065377	P		PANNING CONCENTRATE		1 large sieved pan
22	W094					#8 MESH,	PORPHYRY FLOAT, 1 SILISICLASTIC BOULDER	
23								
24	• KDS002		SOIL	B		SOIL	Red	oxidized till, Red weathering
25								
26								
27	KD99030	414616	6065360	C	76	PEBBLY TILL	MED BRN	
28	W095							
29				A	0-8	ORGANICS		
30					8-33	PEBBLY TILL	PALE BROWN	
31					33-76	PEBBLY TILL	MED BRN	1-2cm PEBBLES
32								10-20%
33								2-5mm fragments
34								10-20%
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: Dem-Hat area Claim Group: _____ Claim: _____
Sampler: U.S. - JM Traverse: KD0711 Grid: _____ Date: July 11, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (~~Northing~~) (Easting)	Station (~~Easting~~) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KD071101			R		Rock	dark grey	pyritic Hbl diorite
02								Hbl ≈ 50% pyrite
03								5-10%, pale grey
04								plagioclase
05								
06	KD99031	410613	6068752	C		TILL	Med Grey Brn	
07	(W111)							
08				A	0-10	ORGANICS		
09				B	10-50	SANDY PEBBLY	REDDISH BRN	OXIDIZED TILL
10						CLAY		POSSIBLY REWORKED
11								LARGE COBBLES
12				C	50-85	PEBBLY TILL	MED GRY BRN	1-3cm PEBBLES 20%
13								SAND & GRIT 20%
14								cobbles up to 15cm.
15								
16	KD071102			R		ROCK SUBO/C	PALE BRN	QUARTZ-FELDSPAR
17								PORPHYRY KTg
18								
19	KD071104			R		FLOAT/TALUS	PINK GREY	TAKLA SILICICLASTIC
20								HORNFELS WITH BLACK
21								VEINING, Fg pyrite
22								≈ 5%
23								
24	KD071105			R		FLOAT BOULDER	PALE ORANGE BROWN	Fe CARBONATE &
25								SILICA BRECCIA,
26								ANGULAR FRAGMENTS
27								OF TAKLA METASEDS
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: Dem-Hat Area Claim Group: _____ Claim: _____
Sampler: _____ Traverse: KD0713 Grid: _____ Date: _____
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	■ KD071301	416521	6067004	R		ROCK FLOAT	RED ORANGE	Pale grey-green
02	W113							porphyry boulder
03						highly fractured but also hard & tough		
04								
05	KD99032	416115	6066987	C	20	PEBBLY TILL	MED GRY BRN	
06	W116							
07				A	0-1	ORGANICS		
08				C	1-27	PEBBLY TILL	RED BRN	1-2cm PEBBLES 10-15%
09								2-4mm ANGULAR FRAGMENTS
10								MAINLY ARGILLITE 10%
11				C	27-70	PEBBLY TILL	MED GRY BRN	SUB ANGULAR
12								AND ROUNDED FRAGMENTS
13								20% UP TO 5cm.
14								10-15% SMALLER FRAGMENTS
15								
16	■ KD071302			R		ROCK FLOAT	RED ORANGE	PALE GREENISH GREY
17								TAKLA META SED. HORNFELS
18								CARBONATE & SILICA
19								ALTERATION
20								
21	■ KD071303			R		ROCK FLOAT	RED ORANGE	Fe CARBONATE ALTERED
22								SILICIFIED TAKLA ?
23						MULTI-STAGE	SILICA VEINING, BLACK & GREY	
24								
25	■ KD071305			R		OUTCROP	PALE RED BRN	QUARTZ FELDSPAR
26								PORPHYRY, CLAY
27						ALTERED FELDSPAR PHENOCRYSTS		
28						PALE GREY GREEN MATRIX ALTERATION		
29						MINOR SULPHIDE, OXIDE ON FRACTURES		
30						MAFICS OXIDIZED		
31	SOIL SAMPLING, TRAVERSE AT 000°							
32	• KDS005	100 m FROM ROAD		B	20	PEBBLY SANDY CLAY	RED BRN	2874' elev.
33	• KDS006	100m N		B	25	SANDY PEBBLY CLAY	BEIGE	2925' elev
34	• KDS007	100m N		B	20	" " "	RED BRN	2925' elev. Hbl DIORITE
35								FLOAT
36	• KDS008	100m N		B	25	" " "	RED BRN	2925' elev.
37	• KDS009	100m N		B	25	" " "	BEIGE	elev - 2919'
38	• KDS010	100m N		B	25	" " "	"	2898' elev.
39	• KDS011	100m N		B	20	" " "	"	2880' elev.
40	• KDS012	100m N		B	25	" " "	RED BRN	2892' elev.

CLOSURE Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: Dem-Hat Claim Group: _____ Claim: _____
Sampler US-JM Traverse: _____ Grid: _____ Date: JULY 13, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting)	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KDS013	115m N		B	20	SANDY PEBBLY CLAY	BEIGE	2832' elev.
02	KDS014	100m N		B	25	" " "	RED BRN	2850' elev.
03	KDS015	100m N		B	25	" " "	RED BRN	2832' elev.
04	KDS016	100m N		B	25	" " "	BEIGE	2820' elev.
05	KDS017	100m N		B	25	" " "	MED BROWN	2784' elev.
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
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CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DRM-HAT AREA Claim Group: _____ Claim: _____

Sampler: U.S. Traverse: KD0714 Grid: _____ Date: JULY 14, 1999

Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting)	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	☒ KD0714 01			R		ROCK O/C	DARK GREY	SHEARED TAKLA
02							TO BLACK	ARGILLITE
03								
04	KD99033	415597	6063417	C	60	PEBBLY TILL	MED GRY BRN	ARGILLITE COBBLES
05	(W119)							
06				A	0-6	ORGANICS		
07				B	6-11	SANDY PEBBLY CLAY	RED BRN	
08				C	11-36	" " "	BEIGE	LEACHED TILL?
09				C	36-60	PEBBLY TILL	MED GRY BRN	DENSE CLAY,
10								1-1.5cm PEBBLES
11								∠10° ↘, mm SCALE
12								FRAGMENTS MAINLY
13								ARGILLITE 10-15° ↘
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
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37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____

Line crosses BL _____ m _____ of Station _____

Daily Totals: Line-km _____ Number of Samples: _____

SOIL SAMPLING

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: DEM-HAT AREA Claim Group: _____ Claim: _____
Sampler: J McLAUGHLIN Traverse: _____ Grid: _____ Date: JULY 14 / 99
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting)	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
*	01 KDS018	W-121		B	30	clay	light-brown	
	02 019			B	20	pebbly-clay	med brown	
	03 020			B	10	" "	red-brown	
	04 021			B	15	" "	light red/brown	
	05 022	130°		B	20	" "	" "	
	06 023			B	10	" "	" "	
	07 024			B	15	" "	" "	
	08 025			B	20	" "	" "	pebbles + gravel
	09 026			B	25	" "	" "	lots of gravel
	10 027			B	20	" "	med red/brown	gravel + cobble, angular-round
	11 028			B	20	" "	" "	rounded gravel
	12 029			B	20	" "	lt. brown	angular pebbles
	13 030			B	15	" "	lt brown/red	pebbles, no gravel
*	14 031	→ WAYPOINT 119		B	20	sandy/silty	med brown/red	" "
	15 TILL SAMPLE ~~WAYPOINT 119~~				100m @ 130°		FROM 031	
	16 KDS032			B	25	sandy/silty	light brown	rounded pebbles
	17 033			B	25	" "	" "	pebbles & gravel
	18 034			B	15	" "	" "	" "
	19 035			B	20	indurated	med brown/red	" "
	20 036			B	20	" "	lt. brown/grey	+ rounded cobble
	21 037	N 000°AZ		B	25	silty clay	" "	" "
	22 038			B	25	sandy/silty	" "	rounded pebbles & gravel
	23 039			B	35	" "	med brown/red	pebble-rich
	24 040			B	30	" "	" "	" ", angular & rounded
	25 041			B	20	" "	" "	angular to sub angular
*	26 042	WAYPOINT 120		B	20	" "	" "	" " + some gravel
	27 ~~KDS043~~							
	28 KDS043			B	35	silty clay	lt brown/grey	few pebbles
	29 044			B	20	sandy/silty	med brown/red	pebbles + gravel
	30 045	W 270°AZ		B	25	" "	" "	" "
	31 046			B	20	" "	" "	pebbles to cobble
	32 047			B	15	" "	" "	some gravel
*	33 50m TO ROAD & WPT. W122							
*	34 W121	414435	6064233					2529'
*	35 W119	415597	6063417					2610'
*	36 W120	415599	6064529					2634'
*	37 W122	414930	6064600					2640'
	38							
	39							
	40							

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Au Unit = ppb N = 33

Mean =	4.245	Min =	0.400	1st Quartile =	2.875
Std. Dev. =	3.191	Max =	19.000	Median =	3.650
CV % =	75.158	Skewness =	2.990	3rd Quartile =	4.650

%	cum %	cls int	(# of bins = 16 - bin size = 1.240)
0.00	1.47	-0.220	
12.12	13.24	1.020	****
0.00	13.24	2.260	
27.27	39.71	3.500	*********
33.33	72.06	4.740	**********
12.12	83.82	5.980	****
9.09	92.65	7.220	***
3.03	95.59	8.460	*
0.00	95.59	9.700	
0.00	95.59	10.940	
0.00	95.59	12.180	
0.00	95.59	13.420	
0.00	95.59	14.660	
0.00	95.59	15.900	
0.00	95.59	17.140	
0.00	95.59	18.380	
3.03	98.53	19.620	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Au Unit = ppb N = 33

Mean =	0.5297	Min =	-0.3979	1st Quartile =	0.4586
Std. Dev. =	0.3197	Max =	1.2788	Median =	0.5623
CV % =	60.3500	Skewness =	-0.8999	3rd Quartile =	0.6668

Anti-Log Mean = 3.386 Anti-Log Std. Dev. : (-) 1.622
(+) 7.070

%	cum %	antilog	cls int	(# of bins = 16 - bin size = 0.1118)
0.00	1.47	0.352	-0.4538	
3.03	4.41	0.455	-0.3421	*
0.00	4.41	0.588	-0.2303	
3.03	7.35	0.761	-0.1185	*
3.03	10.29	0.985	-0.0067	*
3.03	13.24	1.274	0.1051	*
0.00	13.24	1.648	0.2168	
0.00	13.24	2.131	0.3286	
9.09	22.06	2.757	0.4404	***
21.21	42.65	3.566	0.5522	*******
30.30	72.06	4.613	0.6640	**********
12.12	83.82	5.967	0.7757	****
9.09	92.65	7.718	0.8875	***
3.03	95.59	9.984	0.9993	*
0.00	95.59	12.915	1.1111	
0.00	95.59	16.706	1.2229	
3.03	98.53	21.609	1.3346	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = HATTILL2.DAT

Variable = Au Unit = ppb N = 33
N CI = 16

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

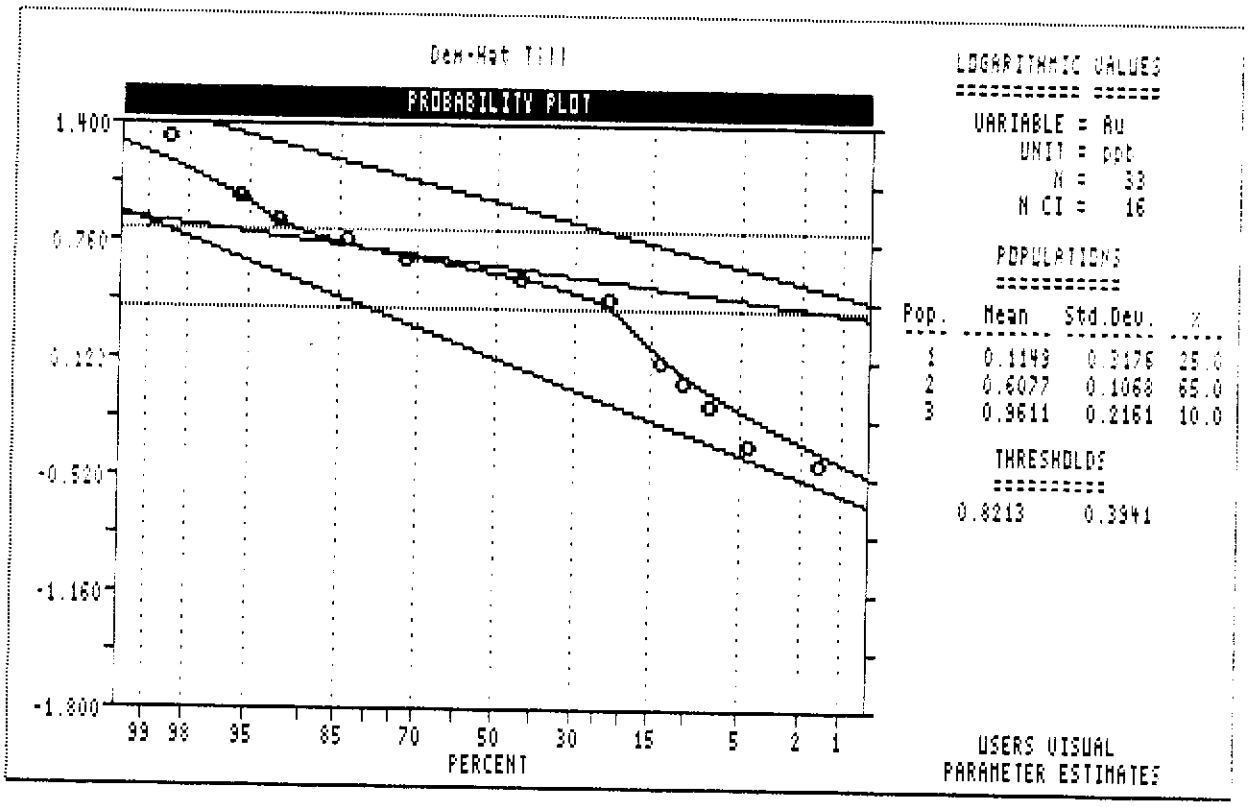
Population	Mean		Std Dev	Percentage
1	1.303	-	0.627	25.00
		+	2.707	
2	4.052	-	3.169	65.00
		+	5.182	
3	9.143	-	5.559	10.00
		+	15.036	

==========

User Defined Thresholds.

Thresholds
6.627
2.478

##


Dem-Mat Till
PROBABILITY PLOT
1.400
0.760
0.120
-0.520
-1.160
-1.800
99 98 95 85 70 50 30 15 5 2 1
PERCENT
LOGARITHMIC VALUES
VARIABLE = Au
UNIT = ppb
N = 33
N CI = 16
POPULATIONS
Pop. Mean Std.Dev. %
1 0.1143 0.2176 25.0
2 0.6077 0.1068 65.0
3 0.9611 0.2161 10.0
THRESHOLDS
0.8213 0.3941
USERS VISUAL
PARAMETER ESTIMATES

Lynx Area (Fig. 5)

The Lynx area is located approximately 40 km north of Fort St. James. The area is accessible by three logging roads which head east from the Germansen road. The McLeod-Tsilcoh F.S. road is well maintained and can be used by two-wheel drive vehicles. The other roads are not maintained and require four-wheel drive vehicles.

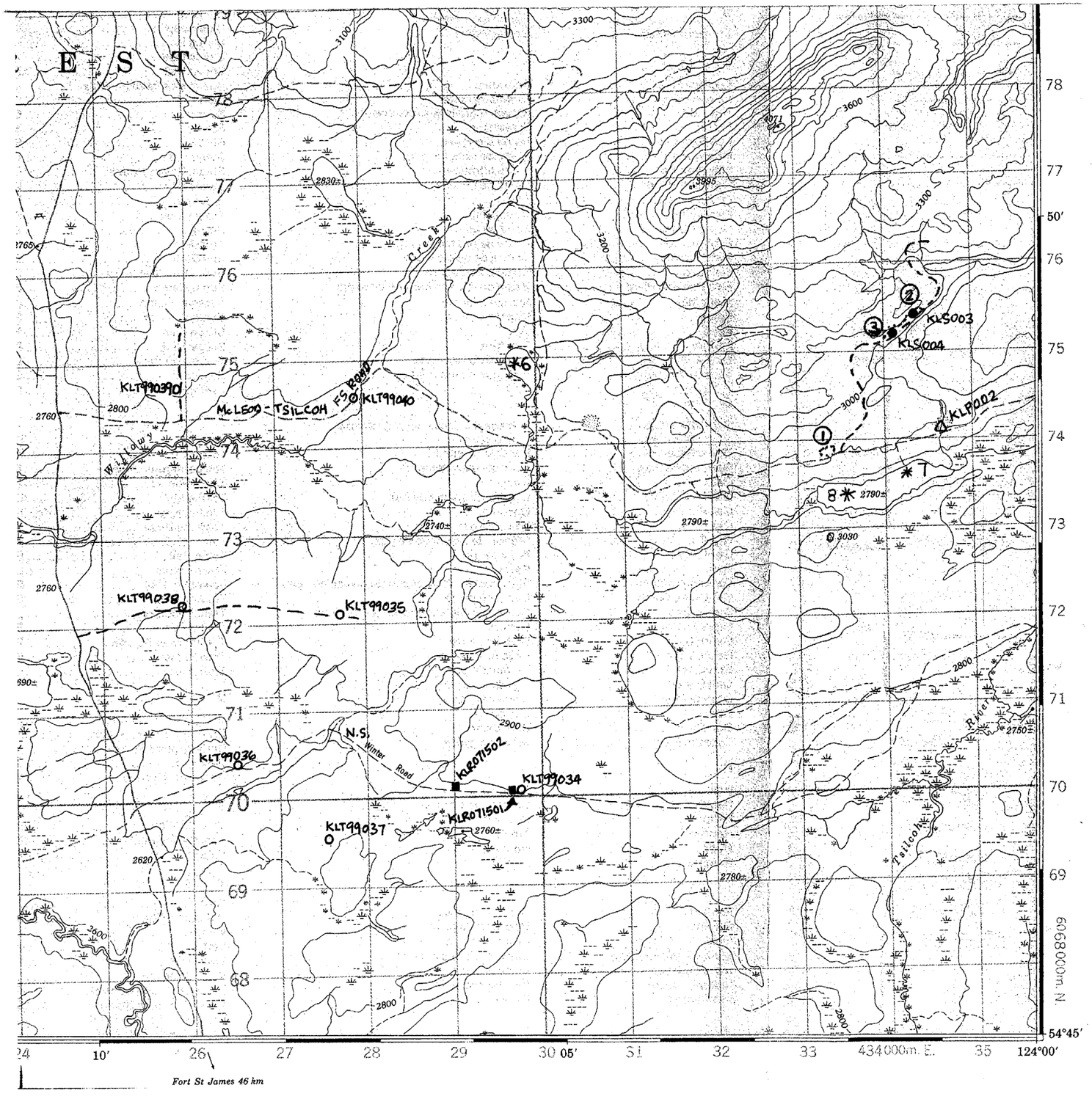
This target area was chosen because of a cluster of three anomalous gold values in lake sediments. Widely spaced till sampling was carried out west of these anomalies to test a possible up ice source. A few bedrock exposures in the vicinity were also examined and sampled.

A total of 7 till, 2 soil, 2 rock and one stream sediment panning concentrate were collected over a 2½ day period. The area is underlain by metasediments of the Inzana Lake Formation. An erosional remnant of Miocene basalt is located in the northern map area but this unit was not encountered. Chert pebble conglomerate and rusty weathering siliciclastic and argillite were encountered along logging roads, north of the lake sediment anomalies. Two soils collected below these outcrops returned concentrations of 1 and <1 ppb Au, and elevated concentrations of zinc. A panning concentrate collected from a stream draining this area contained 1500 ppb Au and low concentrations of other elements.

Seven till samples were collected in a 30 square km area. The gold analyses were contoured at the same thresholds as determined by Dem-Hat area samples. Results are presented on Fig. 6. None of the samples exceed the anomalous threshold of 6.6 ppb. A weakly defined trend of diminishing concentrations, from northeast to southwest, is defined in the data. Two red-orange weathering float samples were analyzed. One sample of carbonate altered mafic rock contained 7.8 ppb Au and 39 ppm As. The second sample of pyritic quartz veins in altered carbonate, returned 2.5 ppb Au and low concentrations of other elements.

Discussion of Results.

Gold geochemistry of till samples defines a weak southwesterly trend, parallel to glacial ice movement. A source area is indicated toward the southwest. Thick till cover in this direction will hinder follow-up prospecting.



LEGEND

MIDDLE TRIASSIC-LOWER JURASSIC

Inzana Lake Formation

Volcanic sandstone, siltstone, mudstone, argillite, andesite, lapilli tuff and sedimentary breccia

① augite porphyry

② chert pebble conglomerate

③ argillite

Symbols

*7 R.G.S. lake sediment sample site, Au in ppb

o till sample site

● soil sample site

■ rock sample site

△ panning sample site

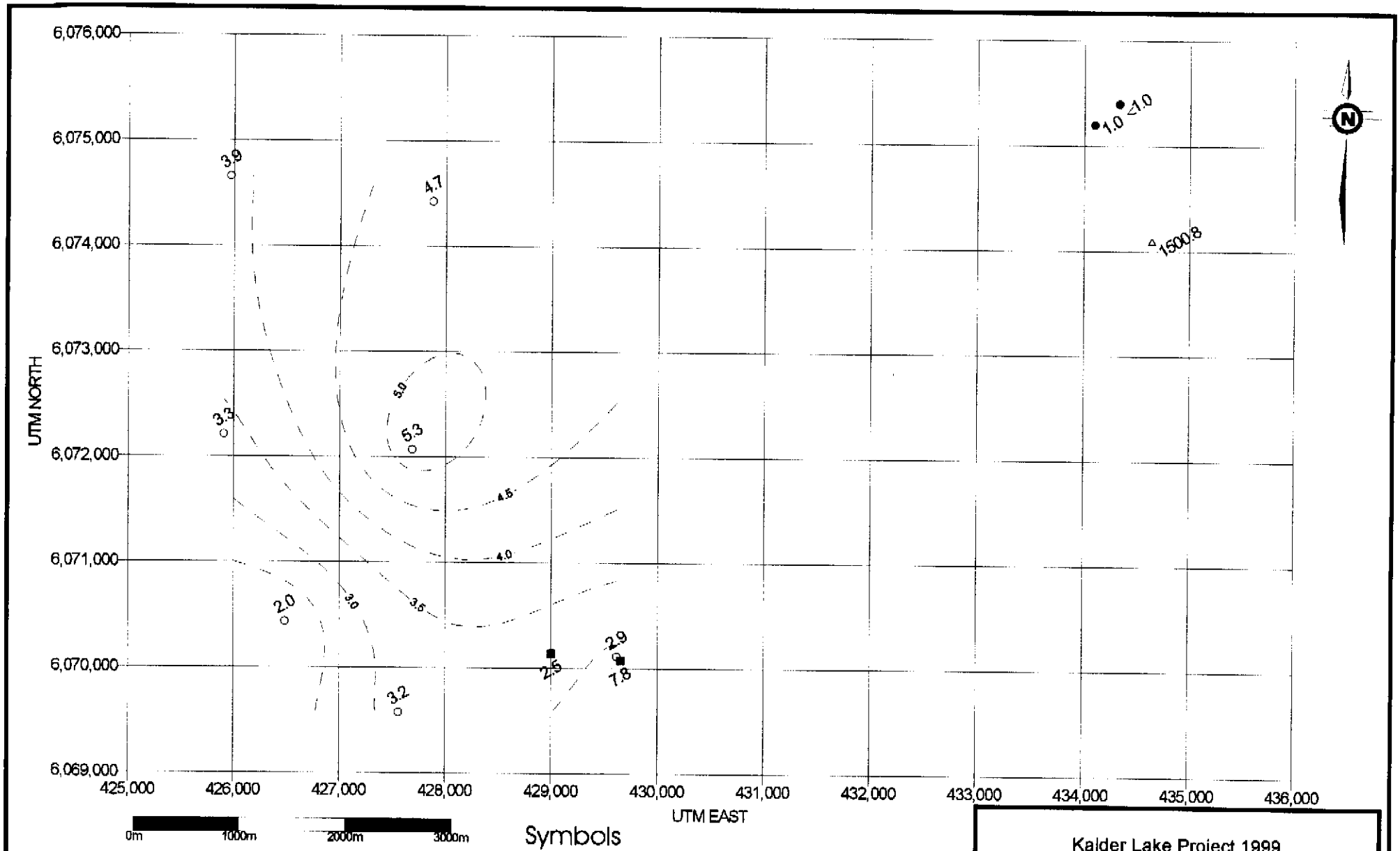
0 1 2 km

Kalder Lake Project 1999

Lynx Area

Outcrop and Sample Location

Date	File	NTS	Scale	Fig.
July 99	LynxFig	93K/16	1:50,000	5



Symbols

- ○ till sample site
- ● soil sample site
- ■ rock sample site
- △ panning sample site

Au in ppb

Kalder Lake Project 1999

Lynx Area Gold Geochemistry

Date	File	NTS	Scale	Fig.
July 99	LynxAufig1.cdr	93K/16	1:50,000	6

Lynx Area
Traverse Reports

Road surveys, panning, Concentrates & soils

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: LYNX & RAINBOW Claim Group: _____ Claim: _____

Sampler: U.S. - JM Traverse: _____ Grid: _____ Date: JULY 10, 1999

Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	LYNX	AREA						
02								
03	KLP002 Δ	434611	6073986			Pan Conc.		LYNX AREA
04	W096							MCLEOD-TSILOCK FSR
05								
06	• KLS003			B	15	PEBBLY SOIL	RED BRN	CHERT PEBBLE
07								CONGLOMERATE TAKLAGH
08	• KLS004	200m west		B	15	PEBBLY SOIL	RED BRN	RUSTY SILICICLASTIC
09								AND ARGILLITE
10								
11	RAINBOW							
12								
13	Δ KRP003	429650	6087700	P		PAN CONC		WEST DRAINING CK.
14								DRAINING TAKLA
15								VOLCANICS
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____

Line crosses BL _____ m _____ of Station _____

Daily Totals: Line-km _____ Number of Samples: _____

TILL SAMPLING, PROSPECTING SOUTH OF JAN LAKE

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: LYNX AREA Claim Group: _____ Claim: _____
Sampler: _____ Traverse: _____ Grid: _____ Date: JULY 15, 99
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KLT99034	429613	6070115	C	85	PEBBLY TILL	MED GRY BRN	
02	PIT (W123)							
03	ROAD CUT				0-85	PEBBLY TILL	MED GRY BRN	1-1.5cm PEBBLES <10%
04	N SIDE							2-6mm PEBBLES <10%
05	DEPTH FROM	ORIGINAL	SURFACE		150			
06								
07	KLR071501			R		ROCK FLOAT	RED ORANGE BRN,	CARBONATE
08	≈10m WEST	OF W123						AND SILICA ALTERED
09	SAME SIDE							SEDIMENTARY? ROCK
10						MULTI-STAGE AND FINE OPEN SPACE FILLING		
11						BY PALE GREY SILICA, MED VFG CLEAR		
12						QTZ CRYSTALS IN VOIDS		
13								
14	KLR071502	429000	6070051	R		ROCK FLOAT, RED ORANGE WEATHERING		
15	(W124)							
16	FLOAT					PARTIALLY EXPOSED IN TILL, IN ROAD CUT N. SIDE		
17						GRY QTZ. VEINING/REPLACEMENT WITH		
18						V. FG. PYRITE		
19								
20	W125	427727	6070722	N/S		ENCOUNTERED FLUVIAL GRAVELS BELOW		
21						TILL AT 90 Cm. TOTAL DEPTH 120cm		
22								
23	KLT99035	427681	6072072	C	50-60	PEBBLY TILL	MED GRY BRN	DENSE MATRIX
24	PIT (W126)							SUPPORTED PEBBLY TILL
25								PEBBLES 30-40%
26				A	0-2	ORGANICS		A
27				C	2-35	PEBBLY TILL	MED GRY BRN	
28				C	35-60	PEBBLY TILL	MED BRN	VERY DENSE CLAY
29								MATRIX SUPPORTED,
30								FOWRN FRAGMENTS
31				C	60-70	PEBBLY SANDY CLAY	MED BRN	1-2cm PEBBLES
32								≈25% SAND 25%
33								
34	KLT99036	426485	6070486	C	160	PEBBLY TILL	DRK GRY BRN	DENSE PEBBLY TILL
35	PIT, ROAD			C	0-90	EXPOSED ROAD CUT		
36	CUT N SIDE			C	90-160	PEBBLY TILL	DARK GRY BRN	1-1.5cm PEBBLES
37	(W127)							≈10% SAND &
38								GRIT <10%
39								
40								

CLOSURE. Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

TILL SAMPLING, LYNX AREA, WEST OF JAW LAKE

GEOCHEMICAL SAMPLING REPORT

Project: KALDEN Property: LYNX AREA Claim Group: _____ Claim: _____
Sampler: _____ Traverse: _____ Grid: _____ Date: JULY 18, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KLT99037 ▲	427558	6069577	C	65	PEBBLY TILL	MED GRY BRN	
02	PIT (W131)							
03	TRAVERSED			A	0-1	ORGANICS		
04	FROM WINTER			C	1-50	PEBBLY TILL	LIGHT GRY BRN	PEBBLY TILL WITH
05	ROAD							COBBLES, COBBLES AND
06								PEBBLES ≈ 50%
07				C	50-65	PEBBLY TILL	MED GRY BRN	DENSE CLAY MATRIX
08								PEBBLES 10-15%
09								SAND <20%
10								
11	ΔKLT99038	425904	6072213	C	60	PEBBLY TILL	MED GRY BRN	
12	(W132)							
13				A	0-1	ORGANICS		
14				C	1-17	PEBBLY TILL	GREY	DRY ON LEACHED
15				C	17-60	PEBBLY TILL	MED GRY BRN	1-3cm PEBBLES 20%
16								SMALLER PEBBLES
17								AND SAND UP TO 20%
18								
19	ΔKLT99039	425967	6074661	C	43	PEBBLY TILL	MED GRY BRN	
20	W133							
21				A	0-1	ORGANICS		
22				C	1-19	PEBBLY TILL	PALE GREY	DRY ON LEACHED
23				C	19-43	PEBBLY TILL	MED GRY BRN	DENSE CLAY MATRIX
24								1-1.5cm PEBBLES 10%
25								SAND & GRIT <10%
26								
27	ΔKLT99040	427871	6074427	C	80	PEBBLY TILL	MED GRY BRN	1
28	W134							
29				A	0-1	ORGANICS		
30				C	1-50	SILTY CLAY	BEIGE	MINOR PEBBLES
31				C	50-70	SANDY SILT	PALE BRN	
32				C	70-80	PEBBLY TILL		DENSE CLAY MATRIX
33								PEBBLES <1cm ≈ 10-15%
34								MINOR SCALE TO SAND ≈ 10-15%
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

Kleedlee Creek Fig. 7

Kleedlee Creek area lies west of Germansen Road , approximately 50 km north of Fort St. James, and is accessed via Inzana-Main and Esker F.S. roads.

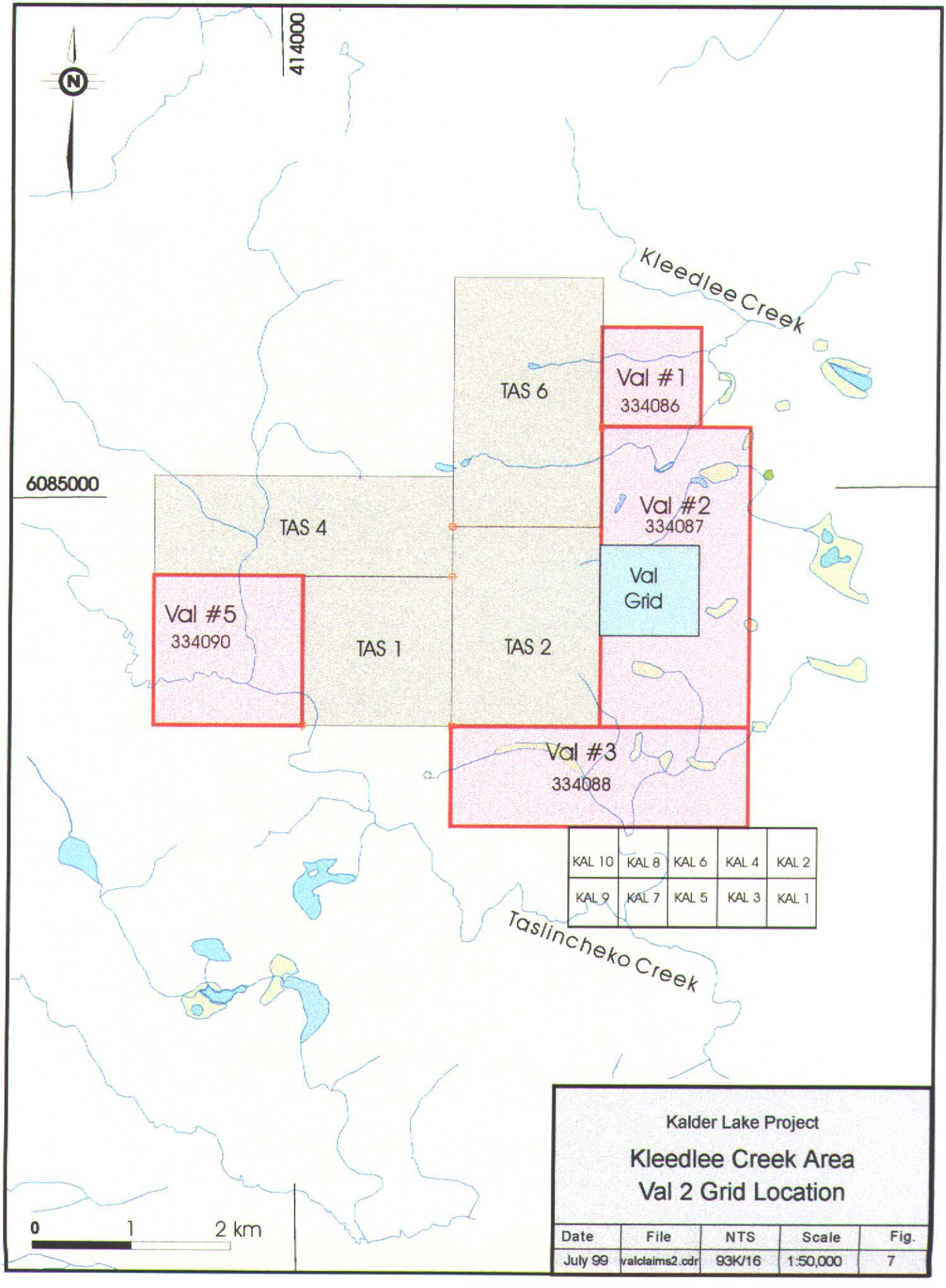
A till sampling program along the eastern boundary of the Tas property was contemplated in the prospecting proposal. However, due to the presence of thick glaciofluvial deposits in the area (Photo 3), this concept was abandoned and a VLF-EM survey was carried out instead.

As mentioned previously, the Tas property has received significant exploration. Most work to date was directed at high grade but spotty gold mineralization associated with at least six massive sulphide-bearing shear/vein system. Although the porphyry potential of the Tas has been recognized for some time, little work has been directed at this style of mineralization.

The VLF-EM survey was carried out on the Val 2 claim over a 6 ½ day period in late July. The Val 2 claim is situated east of the Tas property and is one of four claims held by the writer. A one kilometre wide perimeter area around the Tas property has received limited exploration to date because of ownership conflicts. The EM survey was designed to test a portion of this area for the gold-bearing massive sulphide shear/veins. The Tas area is underlain by the Inzana Lake Formation, but no outcrops are known on the claims.

The survey included the reestablishment of an existing north-trending base line and the surveying of flagged lines by hip-chain and compass, to the boundary of the Tas property. A VLF-EM survey was carried at 50 metre stations and 100 metre line spacing. A few 25 metre stations were added in areas of high field strength response. A Sabre model 27 VLF-EM was used in the survey. Relative field strength measurements were used in this survey to detect conductors. A contoured plot of the field strength data is presented in Fig. 8. The data was analyzed using Probplot software. Three populations were defined with population boundaries at 54 and 38. An upper threshold of 55 is plotted in Fig. 8. Values above 55 outline a strong conductor in the southwest corner of the grid. This conductor has a length of at least 200 metres in a southeast direction. The convergence of three survey lines in the vicinity of the conductor suggests that it is also a magnetic anomaly. This conductor continues in an east-west direction along line 36+00N. A weaker, northeast trend is defined by three areas, exceeding the field strength anomaly threshold.

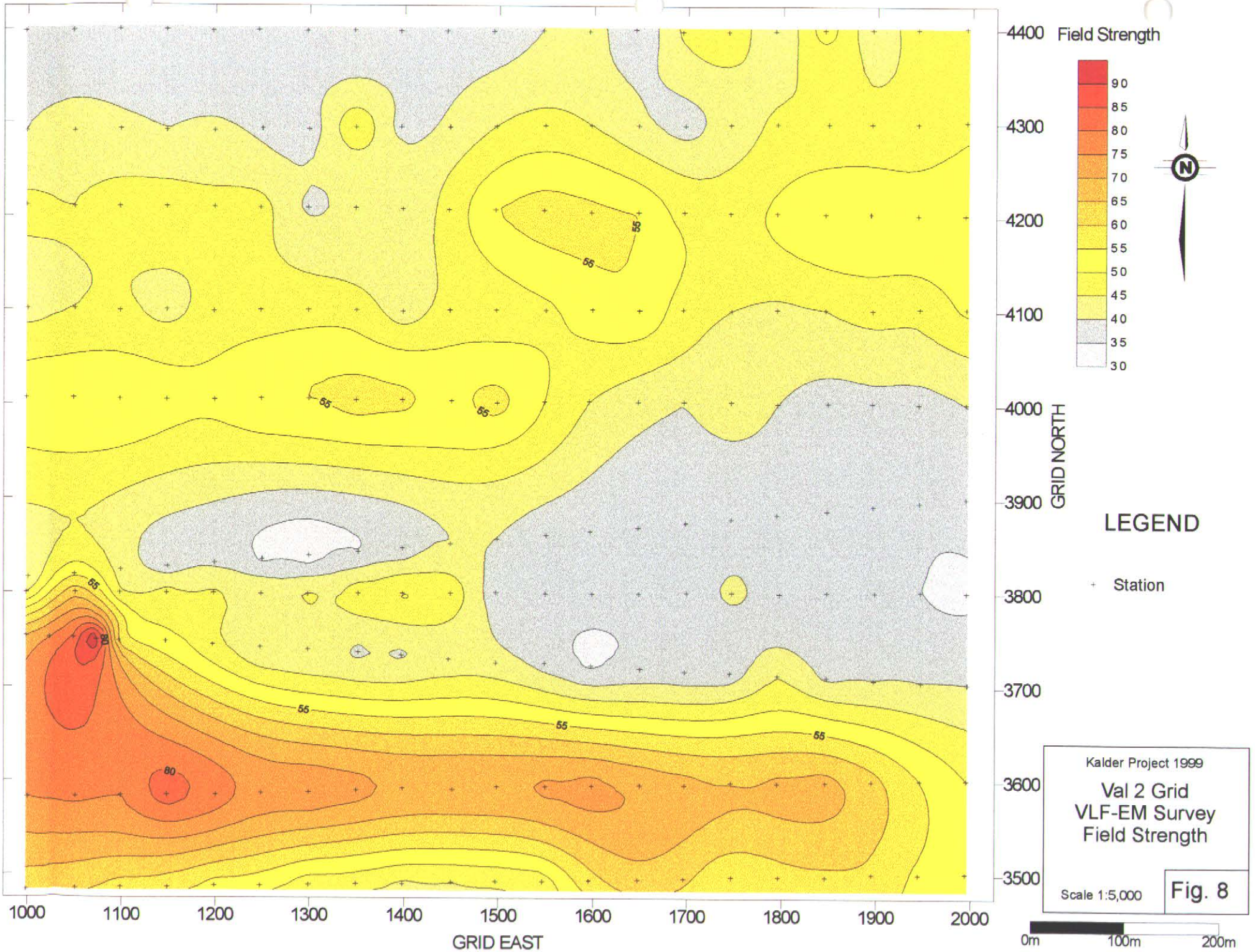
Photo 3 Gravel deposits on Val 2 claim

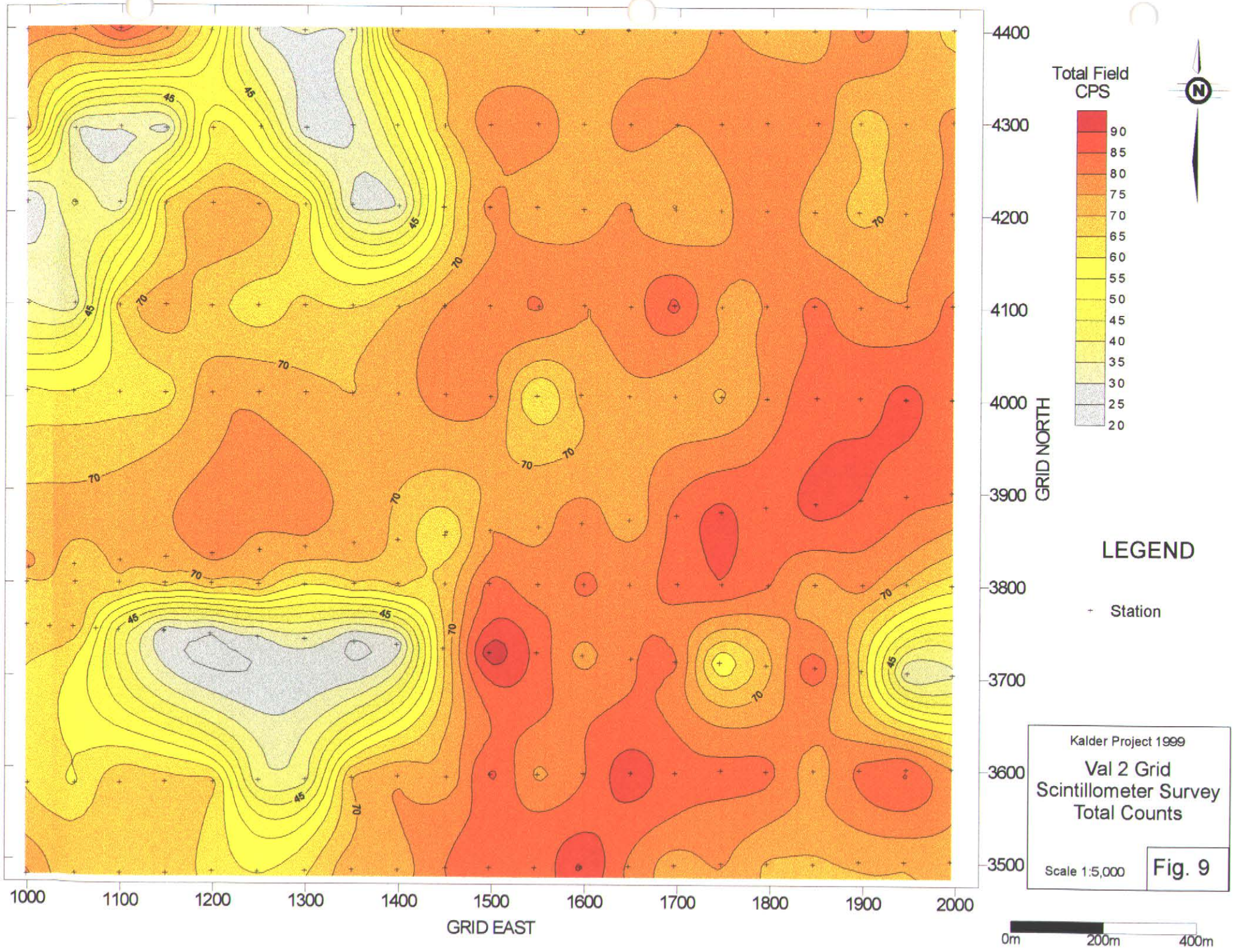


Kalder Lake Project

Kleedlee Creek Area
Val 2 Grid Location

Date	File	NTS	Scale	Fig.
July 99	valclaims2.cdr	93K/16	1:50,000	7


Field Strength
90
85
80
75
70
65
60
55
50
45
40
35
30
N
LEGEND
Station
GRID NORTH
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
GRID EAST
55
80
Kalder Project 1999
Val 2 Grid
VLF-EM Survey
Field Strength
Scale 1:5,000
Fig. 8
0m
100m
200m


Total Field
CPS
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
N
LEGEND
Station
GRID NORTH
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500
GRID EAST
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
0m
200m
400m
Kalder Project 1999
Val 2 Grid
Scintillometer Survey
Total Counts
Scale 1:5,000
Fig. 9

A scintilllometer survey was carried out concurrently as an overburden and K-silicate alteration mapping tool. The survey was conducted with an Urtec UG-130, threshold scintillometer. Total count readings, over a ten second sample interval, were recorded. A total of 10 line-kilometres were surveyed. The survey data is appended to this section.

Total count radioactivity data was also analyzed by the Probplot software. This data was also divisible into 3 populations having boundaries at approximately 61 and 32 cps. A contoured version of the data is presented in Fig. 9. The data also shows northeast trends on the east half of the grid. The lower threshold of 32 cps outlines swampy areas where radioactivity is suppressed by water, organics and clay deposits. The higher threshold probably outlines a higher proportion of igneous rock fragments in gravel deposits.

Discussion of Results

The field strength anomaly in the southwest corner of the grid may have detected a massive sulphide shear/vein similar to the Tas veins. The east-west extension of this anomaly, along line 36+00N looks suspicious. The higher background along this line may be caused by a calibration error. The Sabre Model 27 VLF-EM is recalibrated at the start of each day and this may have led to lower readings in the northern area of the grid.

Kleedlee Creek Area
Survey Data

	A	B	C	D	E	F	G
1	LABEL	EAST	NORTH	NULL	FS	OUTPH	CPS
2	35N1000	999	3483	0	62	0	76.1
3	35N1050	1051	3485	0	61	0	64.4
4	35N1100	1099	3486	0	58	0	68.5
5	35N1150	1149	3486	-2	57	0	69.0
6	35N1200	1199	3488	-4	53	0	62.5
7	35N1250	1248	3488	-3	52	1	59.5
8	35N1300	1299	3489	-3	47	0	64.0
9	35N1350	1349	3490	-1	47	0	73.8
10	35N1400	1398	3490	2	44	0	71.9
11	35N1450	1450	3492	7	45	0	80.1
12	35N1500	1497	3493	4	46	0	83.7
13	35N1550	1546	3493	3	47	0	80.0
14	35N1600	1595	3494	0	58	0	91.1
15	35N1650	1647	3495	-1	63	0	79.0
16	35N1700	1696	3496	0	61	0	72.0
17	35N1750	1747	3498	5	55	0	75.8
18	35N1800	1796	3498	0	58	0	69.3
19	35N1850	1846	3498	4	59	0	69.0
20	35N1900	1895	3501	0	59	0	70.7
21	35N1950	1944	3501	-1	54	0	70.4
22	35N2000	1994	3502	0	51	0	
23	36N1000	1000	3582	2	75	0	64.5
24	36N1050	1051	3583	0	76	0	59.2
25	36N1100	1099	3584	1	75	0	70.1
26	36N1150	1148	3585	0	83	0	67.0
27	36N1200	1200	3585	-5	78	1	67.1
28	36N1250	1249	3587	-1	73	0	36.5
29	36N1300	1299	3588	-4	74	0	37.9
30	36N1350	1349	3590	-3	72	0	70.9
31	36N1400	1398	3592	-1	70	0	74.7
32	36N1450	1451	3591	0	70	0	69.9
33	36N1500	1498	3594	0	70	0	86.6
34	36N1550	1549	3594	2	71	0	73.4
35	36N1600	1598	3595	1	72	0	79.3
36	36N1650	1649	3596	0	69	0	89.2
37	36N1700	1697	3596	3	67	0	81.7
38	36N1750	1746	3599	2	65	0	81.4
39	36N1800	1795	3598	3	66	0	82.3
40	36N1850	1846	3599	0	67	0	71.9
41	36N1900	1895	3600	0	62	0	81.4
42	36N1950	1946	3601	0	55	0	85.8
43	36N2000	1995	3602	0	50	0	75.4
44	37N1000	999	3754	2	70	0	66.5
45	37N1025	1024	3752	2	75	0	
46	37N1050	1049	3752	5	80	0	69.9
47	37N1075	1073	3750	0	97	0	

	A	B	C	D	E	F	G
48	37N1100	1097	3749	-3	57	0	43.6
49	37N1150	1147	3748	-3	52	0	26.6
50	37N1200	1197	3745	-4	46	0	24.4
51	37N1250	1248	3742	-4	40	0	28.8
52	37N1300	1298	3740	-1	40	0	
53	37N1350	1351	3737	0	39	0	23.6
54	37N1400	1397	3734	1	39	0	25.6
55	37N1450	1447	3730	1	42	0	64.2
56	37N1500	1497	3726	-2	42	0	93.8
57	37N1550	1548	3726	-1	38	0	83.3
58	37N1600	1597	3723	-2	34	0	72.6
59	37N1650	1649	3720	2	37	0	79.4
60	37N1700	1697	3717	0	37	0	81.9
61	37N1750	1745	3716	0	37	0	54.7
62	37N1800	1795	3713	0	45	0	67.8
63	37N1850	1847	3711	0	39	2	84.7
64	37N1900	1897	3708	0	40	2	64.0
65	37N1950	1947	3706	0	40	2	30.0
66	37N2000	1996	3704	-2	40	2	33.9
67	38N1000	999	3800	6	44	0	67.5
68	38N1050	1051	3800	1	63	1	68.2
69	38N1100	1098	3800	-3	45	0	69.5
70	38N1150	1148	3800	0	47	0	67.9
71	38N1200	1198	3800	-4	46	0	69.7
72	38N1250	1249	3799	0	45	0	70.2
73	38N1300	1298	3799	0	46	0	60.3
74	38N1350	1351	3800	8	48	0	65.3
75	38N1400	1398	3800	8	51	0	67.0
76	38N1450	1449	3800	3	49	0	66.2
77	38N1500	1497	3801	-2	37	0	81.6
78	38N1550	1549	3800	0	38	0	75.6
79	38N1600	1598	3800	0	37	0	81.2
80	38N1650	1648	3800	0	38	0	78.2
81	38N1700	1699	3801	1	38	0	81.7
82	38N1750	1747	3801	-1	41	0	85.0
83	38N1800	1797	3800	-3	38	0	80.4
84	38N1850	1847	3801	-1	35	0	71.8
85	38N1900	1898	3801	-2	39	0	77.2
86	38N1950	1946	3802	0	35	0	69.2
87	38N2000	1995	3801	3	34	0	62.3
88	39N1000	1001	3816	5	40	0	76.8
89	39N1050	1050	3819	6	54	0	66.4
90	39N1100	1099	3824	-6	43	1	70.6
91	39N1150	1149	3828	-4	37	1	71.9
92	39N1200	1199	3832	-2	39	0	76.1
93	39N1250	1250	3836	0	34	0	72.6
94	39N1300	1299	3840	5	32	0	74.1

	A	B	C	D	E	F	G
95	39N1350	1351	3844	6	35	0	72.7
96	39N1400	1398	3848	10	36	0	68.8
97	39N1450	1449	3853	5	40	0	58.4
98	39N1500	1498	3858	1	40	0	75.0
99	39N1550	1550	3862	-2	37	0	72.5
100	39N1600	1596	3866	-2	37	0	80.2
101	39N1650	1647	3870	-2	35	0	70.1
102	39N1700	1698	3875	5	35	0	82.4
103	39N1750	1746	3879	0	40	0	86.6
104	39N1800	1794	3884	0	38	0	81.0
105	39N1850	1847	3888	0	35	0	87.5
106	39N1900	1896	3893	2	38	0	85.0
107	39N1950	1945	3897	-2	35	0	81.4
108	39N2000	1994	3901	3	37	0	81.4
109	40N1000	999	4007	0	54	0	61.1
110	40N1050	1049	4007	0	54	0	60.1
111	40N1100	1098	4006	-1	55	0	62.8
112	40N1150	1148	4006	-2	52	0	62.1
113	40N1200	1199	4006	2	51	0	74.4
114	40N1250	1249	4007	2	55	0	74.0
115	40N1300	1299	4007	3	55	0	71.2
116	40N1350	1349	4006	0	57	0	69.8
117	40N1400	1398	4006	0	56	1	73.4
118	40N1450	1450	4005	2	54	1	76.9
119	40N1500	1498	4003	-1	57	2	77.9
120	40N1550	1548	4004	-2	50	4	57.9
121	40N1600	1595	4005	1	45	2	71.7
122	40N1650	1647	4004	0	42	0	74.2
123	40N1700	1696	4004	0	40	0	72.9
124	40N1750	1746	4004	1	43	0	69.0
125	40N1800	1795	4002	-1	40	1	76.3
126	40N1850	1848	4003	1	38	1	84.4
127	40N1900	1895	4003	1	39	1	81.8
128	40N1950	1944	4002	0	38	0	87.4
129	40N2000	1994	4002	3	40	0	80.5
130	41N1000	1000	4101	-3	43	0	35.4
131	41N1050	1050	4102	0	45	0	31.7
132	41N1100	1098	4100	0	46	0	67.9
133	41N1150	1148	4101	-1	43	0	73.8
134	41N1200	1198	4100	4	47	0	66.0
135	41N1250	1248	4101	3	47	0	61.3
136	41N1300	1298	4101	-2	48	0	66.2
137	41N1350	1349	4101	-3	48	0	64.5
138	41N1400	1398	4100	-2	42	0	70.0
139	41N1450	1448	4101	-1	47	2	75.2
140	41N1500	1497	4101	0	47	0	78.7
141	41N1550	1549	4101	2	49	1	80.8

	A	B	C	D	E	F	G
142	41N1600	1598	4102	0	52	0	74.9
143	41N1650	1648	4101	-2	55	0	77.2
144	41N1700	1695	4102	-1	47	0	87.0
145	41N1750	1746	4101	-2	45	0	73.5
146	41N1800	1794	4102	1	44	0	75.2
147	41N1850	1845	4102	3	45	0	81.5
148	41N1900	1895	4101	3	47	0	76.4
149	41N1950	1945	4103	0	46	0	74.9
150	41N2000	1994	4103	1	51	0	81.5
151	42N1000	999	4212	-2	46	0	24.4
152	42N1050	1050	4211	-2	45	0	41.4
153	42N1100	1098	4211	0	47	0	30.5
154	42N1150	1148	4211	-1	47	0	66.6
155	42N1200	1199	4211	-2	46	0	73.3
156	42N1250	1248	4210	-3	47	0	71.7
157	42N1300	1298	4210	-2	39	0	64.1
158	42N1350	1348	4210	0	41	0	27.9
159	42N1400	1398	4209	1	41	0	29.6
160	42N1450	1447	4208	4	47	0	60.7
161	42N1500	1496	4208	1	55	0	76.7
162	42N1550	1547	4208	1	57	0	70.8
163	42N1600	1597	4206	-1	56	1	73.7
164	42N1650	1647	4206	-1	55	1	75.4
165	42N1700	1696	4206	-1	48	2	69.3
166	42N1750	1745	4205	0	48	0	74.2
167	42N1800	1794	4205	0	51	0	76.9
168	42N1850	1845	4204	3	55	0	73.6
169	42N1900	1893	4204	0	55	0	68.4
170	42N1950	1943	4203	2	51	0	71.5
171	42N2000	1993	4203	2	55	0	77.6
172	43N1000	999	4291	2	40	0	72.4
173	43N1050	1050	4291	0	42	0	29.2
174	43N1100	1099	4293	1	41	1	30.5
175	43N1150	1148	4292	-1	40	1	27.8
176	43N1200	1199	4292	2	41	0	63.0
177	43N1250	1250	4294	-1	39	2	50.8
178	43N1300	1299	4293	1	37	0	25.0
179	43N1350	1348	4296	3	50	0	29.6
180	43N1400	1396	4296	1	38	0	46.9
181	43N1450	1448	4296	1	41	0	69.7
182	43N1500	1497	4297	3	45	0	77.2
183	43N1550	1548	4298	1	47	3	76.7
184	43N1600	1597	4298	-1	45	2	73.2
185	43N1650	1647	4298	-1	41	5	76.5
186	43N1700	1697	4298	1	38	3	75.0
187	43N1750	1745	4299	3	42	3	75.9
188	43N1800	1794	4300	-1	46	1	79.9

	A	B	C	D	E	F	G
189	43N1850	1848	4300	-2	45	3	79.5
190	43N1900	1894	4300	-2	46	3	67.2
191	43N1950	1943	4300	1	46	1	72.1
192	43N2000	1994	4302	0	49	0	76.3
193	44N1000	998	4398				77.3
194	44N1050	1049	4398				76.1
195	44N1100	1098	4399				88.0
196	44N1150	1148	4399				79.2
197	44N1200	1197	4398				60.8
198	44N1250	1246	4399				28.8
199	44N1300	1297	4398				30.8
200	44N1350	1347	4399	1	35	4	29.9
201	44N1400	1396	4398	4	36	1	76.2
202	44N1450	1445	4398	3	38	2	70.2
203	44N1500	1494	4398	2	37	2	70.1
204	44N1550	1546	4399	3	40	1	71.6
205	44N1600	1595	4398	-2	43	1	69.5
206	44N1650	1644	4400	1	35	2	75.3
207	44N1700	1694	4398	2	46	5	72.8
208	44N1750	1743	4398	1	50	3	75.6
209	44N1800	1792	4399	3	39	4	73.5
210	44N1850	1844	4400	-2	53	1	71.6
211	44N1900	1895	4400	1	41	2	81.9
212	44N1950	1943	4401	-2	48	1	75.3
213	44N2000	1994	4402	0	47	0	67.6

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = VALGRID3.DAT

Variable = FS Unit = N = 205
N CI = 24

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

7 Observations Were Below the Minimum Value of 0.0001
0 Observations Were Above the Maximum Value of 99999.9999

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	35.667	-	34.324	10.00
		+	37.063	
2	45.138	-	39.528	75.00
		+	51.545	
3	68.585	-	60.948	15.00
		+	77.178	

==========

User Defined Thresholds.

Thresholds
54.163
38.512

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable =	FS	Unit =		N =	205
Mean =	48.351	Min =	32.000	1st Quartile =	40.000
Std. Dev. =	11.328	Max =	97.000	Median =	46.000
CV % =	23.428	Skewness =	1.261	3rd Quartile =	54.000

%	cum %	cls int	(# of bins = 24 - bin size = 2.826)
0.00	0.24	30.587	
0.49	0.73	33.413	*
6.83	7.52	36.239	********
15.61	23.06	39.065	******************
11.22	34.22	41.891	**********
6.83	41.02	44.717	********
19.51	60.44	47.543	**********
6.34	66.75	50.370	********
5.85	72.57	53.196	*******
8.78	81.31	56.022	**********
3.90	85.19	58.848	*****
1.95	87.14	61.674	**
1.95	89.08	64.500	**
1.95	91.02	67.326	**
2.44	93.45	70.152	***
1.46	94.90	72.978	**
2.44	97.33	75.804	***
0.98	98.30	78.630	*
0.49	98.79	81.457	*
0.49	99.27	84.283	*
0.00	99.27	87.109	
0.00	99.27	89.935	
0.00	99.27	92.761	
0.00	99.27	95.587	
0.49	99.76	98.413	*

0 1 2 3 4

Each "*" represents approximately 1.7 observations.

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable =	FS	Unit =		N =	205
Mean =	1.6739	Min =	1.5051	1st Quartile =	1.6021
Std. Dev. =	0.0936	Max =	1.9868	Median =	1.6628
CV % =	5.5908	Skewness =	0.7196	3rd Quartile =	1.7324
Anti-Log Mean =	47.191	Anti-Log Std. Dev. :	(-)		38.043
			(+)		58.538

%	cum %	antilog	cls int	(# of bins = 24 - bin size = 0.0209)
0.00	0.24	31.238	1.4947	
0.49	0.73	32.781	1.5156	*
1.46	2.18	34.400	1.5366	**
5.37	7.52	36.099	1.5575	******
5.37	12.86	37.883	1.5784	******
10.24	23.06	39.754	1.5994	**********
11.22	34.22	41.718	1.6203	**********
5.37	39.56	43.778	1.6413	******
7.32	46.84	45.941	1.6622	*********
16.59	63.35	48.210	1.6831	**********
3.41	66.75	50.592	1.7041	****
5.85	72.57	53.091	1.7250	*******
7.80	80.34	55.714	1.7460	*********
4.88	85.19	58.466	1.7669	******
1.95	87.14	61.354	1.7878	**
1.95	89.08	64.384	1.8088	**
1.95	91.02	67.565	1.8297	**
2.44	93.45	70.902	1.8507	***
2.44	95.87	74.405	1.8716	***
2.44	98.30	78.080	1.8925	***
0.49	98.79	81.937	1.9135	*
0.49	99.27	85.985	1.9344	*
0.00	99.27	90.232	1.9554	
0.00	99.27	94.689	1.9763	
0.49	99.76	99.367	1.9972	*

0 1 2 3 4

Each "*" represents approximately 1.7 observations.

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = VALGRID3.DAT

Variable = Scint Unit = CPS N = 208
N CI = 24

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

4 Observations Were Below the Minimum Value of 0.0001
0 Observations Were Above the Maximum Value of 99999.9999

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	28.605	-	25.694	10.00
		+	31.846	
2	46.704	-	38.384	5.00
		+	56.826	
3	73.495	-	66.880	85.00
		+	80.763	

==========

User Defined Thresholds.

Thresholds
60.856
31.550

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Scint Unit = CPS N = 208

Mean =	1.8164	Min =	1.3729	1st Quartile =	1.8209
Std. Dev. =	0.1344	Max =	1.9722	Median =	1.8573
CV % =	7.4006	Skewness =	-2.0081	3rd Quartile =	1.8876

Anti-Log Mean = 65.531 Anti-Log Std. Dev. : (-) 48.086
(+) 89.304

%	cum %	antilog	cls int	(# of bins = 24 - bin size = 0.0261)
0.00	0.24	22.903	1.3599	
0.48	0.72	24.319	1.3859	*
1.92	2.63	25.822	1.4120	**
0.48	3.11	27.419	1.4381	*
1.92	5.02	29.114	1.4641	**
3.85	8.85	30.915	1.4902	*****
0.48	9.33	32.826	1.5162	*
0.48	9.81	34.856	1.5423	*
0.96	10.77	37.011	1.5683	*
0.48	11.24	39.300	1.5944	*
0.48	11.72	41.730	1.6204	*
0.48	12.20	44.310	1.6465	*
0.48	12.68	47.050	1.6726	*
0.00	12.68	49.959	1.6986	
0.48	13.16	53.048	1.7247	*
0.48	13.64	56.328	1.7507	*
1.92	15.55	59.811	1.7768	**
5.29	20.81	63.509	1.8028	******
8.65	29.43	67.436	1.8289	**********
17.79	47.13	71.606	1.8550	**********
21.63	68.66	76.034	1.8810	**********
15.38	83.97	80.735	1.9071	**********
11.06	94.98	85.727	1.9331	**********
3.85	98.80	91.028	1.9592	*****
0.96	99.76	96.656	1.9852	*

0 1 2 3 4

Each "*" represents approximately 1.7 observations.

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Scint Unit = CPS N = 208

Mean =	68.135	Min =	23.600	1st Quartile =	66.200
Std. Dev. =	15.759	Max =	93.800	Median =	72.000
CV % =	23.130	Skewness =	-1.515	3rd Quartile =	77.200

%	cum %	cls int	(# of bins = 24 - bin size = 3.052)
0.00	0.24	22.074	
1.92	2.15	25.126	**
1.92	4.07	28.178	**
4.81	8.85	31.230	******
0.96	9.81	34.283	*
0.96	10.77	37.335	*
0.48	11.24	40.387	*
0.48	11.72	43.439	*
0.48	12.20	46.491	*
0.48	12.68	49.543	*
0.48	13.16	52.596	*
0.48	13.64	55.648	*
0.96	14.59	58.700	*
3.85	18.42	61.752	*****
5.77	24.16	64.804	*******
6.73	30.86	67.857	********
14.42	45.22	70.909	******************
13.94	59.09	73.961	******************
15.87	74.88	77.013	********************
7.21	82.06	80.065	*********
10.10	92.11	83.117	************
3.37	95.45	86.170	****
3.37	98.80	89.222	****
0.48	99.28	92.274	*
0.48	99.76	95.326	*

0 1 2 3 4

Each "*" represents approximately 1.7 observations.

Rainbow Creek Fig. 10

The Rainbow Creek Area is located 55 km north of Fort St. James and is accessed via the Rainbow F.S. road, which heads east from the Germansen Road.

The area is underlain by volcanic rocks of the Witch Lake Formation, Small, alkalic porphyry intrusions are also known in the area. A till blanket exceeding 1 metre thickness covers areas of higher elevations to the east. A large abandoned melt water channel occupies the low lying area to the west. A variety of glaciofluvial sediments cover the present valley bottom.

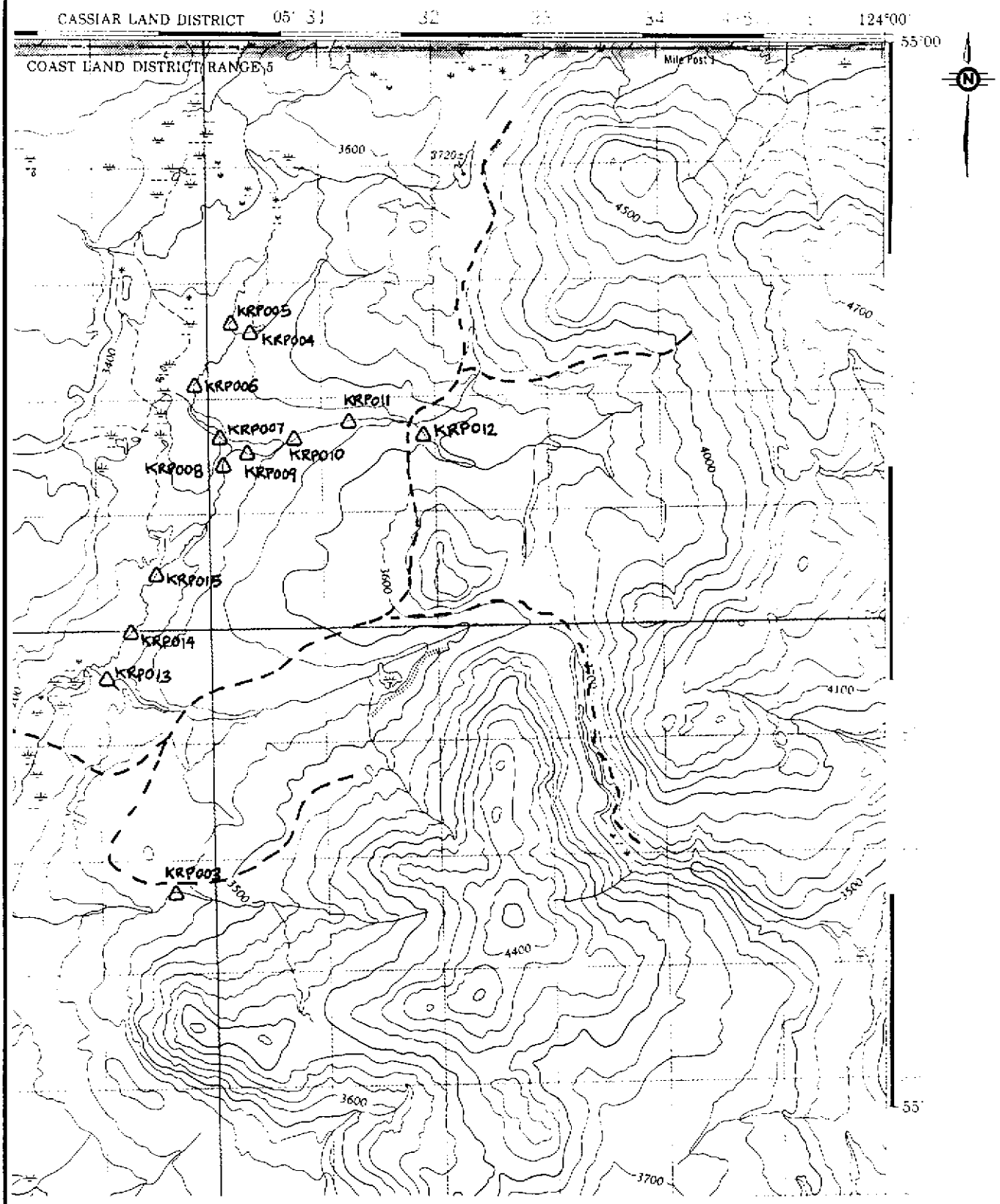
Very fine visible gold occurs in panning concentrates in the present drainages. Although the distribution of gold appears to emanate from the east, no source has been found to date.

These creeks were resampled at 500 metre intervals or less, during a 2 ½ day period in mid July. Thirteen panning concentrate samples were collected. Samples were taken down to a rough concentrate which includes silicates and a heavy fraction. This was done to avoid the removal of very fine gold particles. The concentrates weighed approximately 30 grams (wet) each and most of the concentrates were derived from combining the rough concentrates of two 14 inch diameter pans. Sediments were screened to -1/8 inch mesh, prior to panning, to produce a relatively uniform sample. One pan has a volume of 3,500 cc, producing a dry weight of approximately 5.7 kg per pan.

Samples were sent to overburden Drilling Management Limited of Nepean, Ontario for visual classification and analysis. This was intended to answer questions regarding source and possible mineralization type. Two source areas were considered possible. One is from an eastern source, underlain by the Witch Lake Formation. The second is from till transported from the southwest. A highly anomalous lake sediment gold anomaly of 17 ppb Au supports this idea.

Discussion of Results.

Gold grain size distribution and grain shapes suggest the source is a remobilized placer deposit. The panning concentrate results therefore are not useful for defining a bedrock source.



LEGEND

△ Panning Sample Location

Kalder Project 1999

Rainbow Target

Scale 1:50,000

Fig. 10

Rainbow Creek Area
Gold Grain Analysis
and
Traverse Reports

OVERBURDEN DRILLING MANAGEMENT LIMITED

Mr. Uwe Schmidt
656 Foresthill Place
Port Moody, B.C. V3H 3A1

Phone / Fax: (604) 469-1911 / 9682

January 13, 2000

Dear Mr. Schmidt:

Re: Gold Grains in Pan Concentrates of Stream Sediment Samples KRP-003 to 015, British Columbia

Attached find our gold grain data for he above thirteen samples. The detailed background information that you supplied was very helpful for assessing the significance of the gold grains.

All of the samples contain visible gold, with the concentration ranging from one to sixty-six grains. Rare grains of cinnabar were found; the high Hg values that you mentioned for earlier concentrates are probably due to this mineral as no residual Hg beads from historical panning operations was found.

All of the gold grains are reshaped indicating that no active shedding of gold from lode sources is occurring in the area. This leaves only one question: Were the gold grains in the stream sediments recycled from a till dispersal train down-ice from a lode source or are they ancient grains recycled from a mature placer related to lode sources that were totally exhumed by erosion before glaciation?

The size of the gold grains favours derivation from a mature placer; most are of fine sand size (125-250 microns wide) and very few have the characteristic silt size (<63 microns wide) of 80-90 percent of till gold grains. As well, the reshaped condition of the grains conflicts with the pristine to modified form of most gold grains in till dispersal trains. This clearly shows that gold is not *actively* being shed from such a train. Furthermore, we analysed the surface fineness of twelve representative grains from Sample 15 by SEM/EDS and found nine to be completely leached of silver (fineness = 1000), indicating a high degree of maturity. Therefore it seems clear that the gold is derived mainly from an ancient placer and is of no exploration interest.

I hope these observations are helpful. Please call me if you have any questions.

Sincerely,

Stuart Averill,
President

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

MISC\UWES1JAN.WR2

Sample No.	Number of Visible Gold Grains				DRY BULK STARTING WEIGHT (KG)	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
KRP					*				
003	1	1	0	0	5.7	1	1	0	0
004	1	1	0	0	5.7	0	0	0	0
005	2	2	0	0	11.4	1	1	0	0
006	12	12	0	0	11.4	10	10	0	0
007	7	7	0	0	11.4	8	8	0	0
008	10	10	0	0	11.4	7	7	0	0
009	2	2	0	0	11.4	1	1	0	0
010	1	1	0	0	11.4	1	1	0	0
011	2	2	0	0	11.4	1	1	0	0
012	2	2	0	0	11.4	5	5	0	0
013	2	2	0	0	11.4	1	1	0	0
014	20	20	0	0	11.4	13	13	0	0
015	66	66	0	0	11.4	64	64	0	0

* Calculated PPB based on estimated dry bulk starting weights.

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

MISC\UWES1JAN.WR2

Sample No.	Number of Visible Gold Grains				PAN CONC. WEIGHT (G)	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
KRP					*				
003	1	1	0	0	32.0	90	90	0	0
004	1	1	0	0	10.1	63	63	0	0
005	2	2	0	0	20.6	345	345	0	0
006	12	12	0	0	27.2	4124	4124	0	0
007	7	7	0	0	22.7	3975	3975	0	0
008	10	10	0	0	28.4	2689	2689	0	0
009	2	2	0	0	25.4	396	396	0	0
010	1	1	0	0	29.3	464	464	0	0
011	2	2	0	0	18.7	388	388	0	0
012	2	2	0	0	15.3	3460	3460	0	0
013	2	2	0	0	17.7	491	491	0	0
014	20	20	0	0	20.9	7321	7321	0	0
015	66	66	0	0	37.9	19199	19199	0	0

* Calculated PPB based on submitted pan concentrate weights.

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

MISC\UWES1JAN.WR2

TOTAL # OF PANNINGS 13

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	SUBMITTED PAN CONC. (G)	CALC V.G. ASSAY PPB	REMARKS
KRP													
003	Y	125 X 125	25 C		1					1			2 grains cinnabar.
										1	32.0	90	
004	Y	50 X 100	15 C		1					1			No sulphides.
										1	10.1	63	
005	Y	15 X 25	4 C		1					1			No sulphides.
		125 X 150	50 M		1					1			
										2	20.6	345	
006	Y	50 X 75	13 C	2						2			No sulphides.
		50 X 100	25 M	1						1			
		75 X 75	15 C	2						2			
		75 X 200	27 C	1						1			
		100 X 125	22 C	1						1			
		125 X 125	75 M	1						1			
		125 X 250	36 C	1						1			
		150 X 300	42 C	1						1			
		175 X 200	36 C	1						1			
		200 X 450	75 M	1						1			
										12	27.2	4124	
007	Y	100 X 150	25 C	2						2			No sulphides.
		100 X 175	27 C	1						1			
		125 X 125	25 C	1						1			
		150 X 300	42 C	2						2			
		200 X 450	58 C	1						1			
										7	22.7	3975	
008	Y	25 X 50	25 M	1						1			No sulphides.
		50 X 50	10 C	1						1			
		50 X 100	25 M	1						1			
		75 X 75	15 C	1						1			
		100 X 200	29 C	1						1			
		100 X 300	50 M	1						1			
		150 X 175	31 C	1						1			
		200 X 250	42 C	3						3			
										10	28.4	2689	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

MISC\UWES1JAN.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 13

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	SUBMITTED PAN CONC. (G)	CALC V.G. ASSAY PPB	REMARKS
KRP													
009	Y	100 X 175	27 C	1						1			No sulphides.
		100 X 225	31 C	1						1			
										2	25.4	396	
010	Y	175 X 250	40 C	1						1			No sulphides.
										1	29.3	464	
011	Y	75 X 100	18 C	1						1			No sulphides.
		125 X 200	31 C	1						1			
										2	18.7	388	
012	Y	75 X 150	22 C	1						1			No sulphides.
		250 X 425	59 C	1						1			
										2	15.3	3460	
013	Y	50 X 150	50 M	1						1			No sulphides.
		100 X 200	29 C	1						1			
										2	17.7	491	
014	Y	50 X 75	25 M	3						3			1 grain cinnabar.
		75 X 75	25 M	2						2			
		75 X 100	25 M	1						1			
		75 X 125	25 M	1						1			
		100 X 150	25 M	1						1			
		100 X 200	25 M	1						1			
		125 X 150	27 C	2						2			
		125 X 175	29 C	2						2			
		150 X 200	34 C	1						1			
		175 X 175	34 C	1						1			
		175 X 250	40 C	1						1			
		175 X 300	44 C	1						1			
		200 X 250	42 C	1						1			
		200 X 350	50 C	1						1			
		250 X 300	50 C	1						1			
										20	20.9	7321	
015	Y	50 X 75	13 C	1						1			No sulphides.
		50 X 100	15 C	3						3			
		75 X 100	18 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

MISC\UWES1JAN.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 13

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	SUBMITTED PAN CONC. (G)	CALC V.G. ASSAY PPB	REMARKS
KRP													
		75 X 125	20 C	1						1			
		75 X 150	22 C	1						1			
		100 X 100	20 C	1						1			
		100 X 125	22 C	3						3			
		100 X 150	25 C	4						4			
		100 X 175	27 C	2						2			
		100 X 200	29 C	2						2			
		100 X 250	34 C	2						2			
		125 X 125	25 C	5						5			
		125 X 175	29 C	1						1			
		125 X 200	31 C	3						3			
		125 X 225	34 C	2						2			
		125 X 250	36 C	3						3			
		125 X 400	48 C	1						1			
		150 X 150	29 C	1						1			
		150 X 175	31 C	1						1			
		150 X 200	34 C	2						2			
		150 X 250	38 C	2						2			
		150 X 350	46 C	4						4			
		150 X 450	54 C	1						1			
		175 X 175	34 C	1						1			
		175 X 225	38 C	2						2			
		200 X 200	38 C	2						2			
		200 X 225	40 C	1						1			
		200 X 250	42 C	3						3			
		200 X 300	46 C	2						2			
		200 X 400	54 C	1						1			
		225 X 225	42 C	2						2			
		250 X 250	46 C	2						2			
		250 X 350	54 C	2						2			
		250 X 400	58 C	1						1			
										66	37.9	19199	

Road surveys, panning Concentrates & soils

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: LYNX & RAINBOW Claim Group: _____ Claim: _____

Sampler: U.S. - JM Traverse: _____ Grid: _____ Date: JULY 10, 1999

Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	LYNX	AREA						
02								
03	KLP002 Δ	434611	6073986			Pan Conc.		LYNX AREA
04	W096							MCLEOD-TSILCOK FSR
05								
06	• KLS003			B	15	PEBBLY SOIL	RED BRN	CHERT PEBBLE
07								CONGLOMERATE TAKLA?
08	• KLS004	200 m west		B	15	PEBBLY SOIL	RED BRN	RUSTY SILICICLASTIC
09								AND ARGILLITE
10								
11	RAINBOW							
12								
13	Δ KRP003	429650	6087700	P		PAN CONC		WEST DRAINING CK.
14								DRAINING TAKLA
15								VOLCANICS
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____

Line closes BL _____ m _____ of Station _____

Daily Totals: Line-km _____ Number of Samples: _____

Sample	No. Of Pans	Notes
KRP003	1	no visible Au
KRP004	1	no visible Au, very little sediment, lots of boulders
KRP005	2	no visible Au
KRP006	2	5 colours
KRP007	2	2 colours
KRP008	2	2 colours
KRP009	2	no visible Au
KRP010	2	no visible Au
KRP011	2	no visible Au
KRP012	2	1 colour
KRP013	2	no visible Au
KRP014	2	5 colours
KRP015	2	6 colours

GEOCHEMICAL SAMPLING REPORT

Project: Kalder Property: Rainbow Ck area Claim Group: _____ Claim: _____
Sampler: US-2M Traverse: _____ Grid: _____ Date: July 16, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (Northing) (Easting)	Station (Easting) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KRP004 Δ			P		Pan Concentrate		1 pan very little sediment lots of boulders
02								
03								
04								
05	KRP005 Δ			P		Pan Conc.	No	2 screened pans
06								
07	KRP006 Δ	640m SLP		P		Pan Conc.	5 colours	2 pans
08								
09	KRP007 Δ	≈600m SLP		P		Pan Conc.	2 colours	2 pans
10								
11	KRP008 Δ	≈ 100m S. OF JUNCTION		P		Pan Conc.	2 colours	2 pans
12								
13	KRP009 Δ	E TRIBUTARY		P		Pan Conc		2 pans
14		≈ 160m from JUNCTION						
15								
16	KRP010 Δ	500m SLP		P		Pan Conc.		2 pans.
17								
18						tributary has less black sand and no colours seen.		
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

Creek Panning, Rainbow Creek area

GEOCHEMICAL SAMPLING REPORT

Project: KALDEN Property: RAINBOW Ck area Claim Group: _____ Claim: _____

Sampler: _____ Traverse: _____ Grid: _____ Date: JULY 17, 1999

Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	△ KRP011			P			No colour	elev 3329'
02								2 pans
03								
04	△ KRP012			P			1 colour	2 pans 3393'
05								
06	TRAVERSED TO WPT W129							
07	W129	429357	6089697					
08	SOUTH FROM THERE TO					TRIBUTARY		
09								
10	△ KRP013			P			No colours	2 pans 3126'
11								
12	△ KRP014			P			5 colours	2 pans
13	main stream							
14								
15	△ KRP015	429527	6090532	P			6 colours	2 pans
16	main stream							
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line _____

Line crosses BL _____ m _____ of Station _____

Daily Totals: Line-km _____ Number of Samples: _____

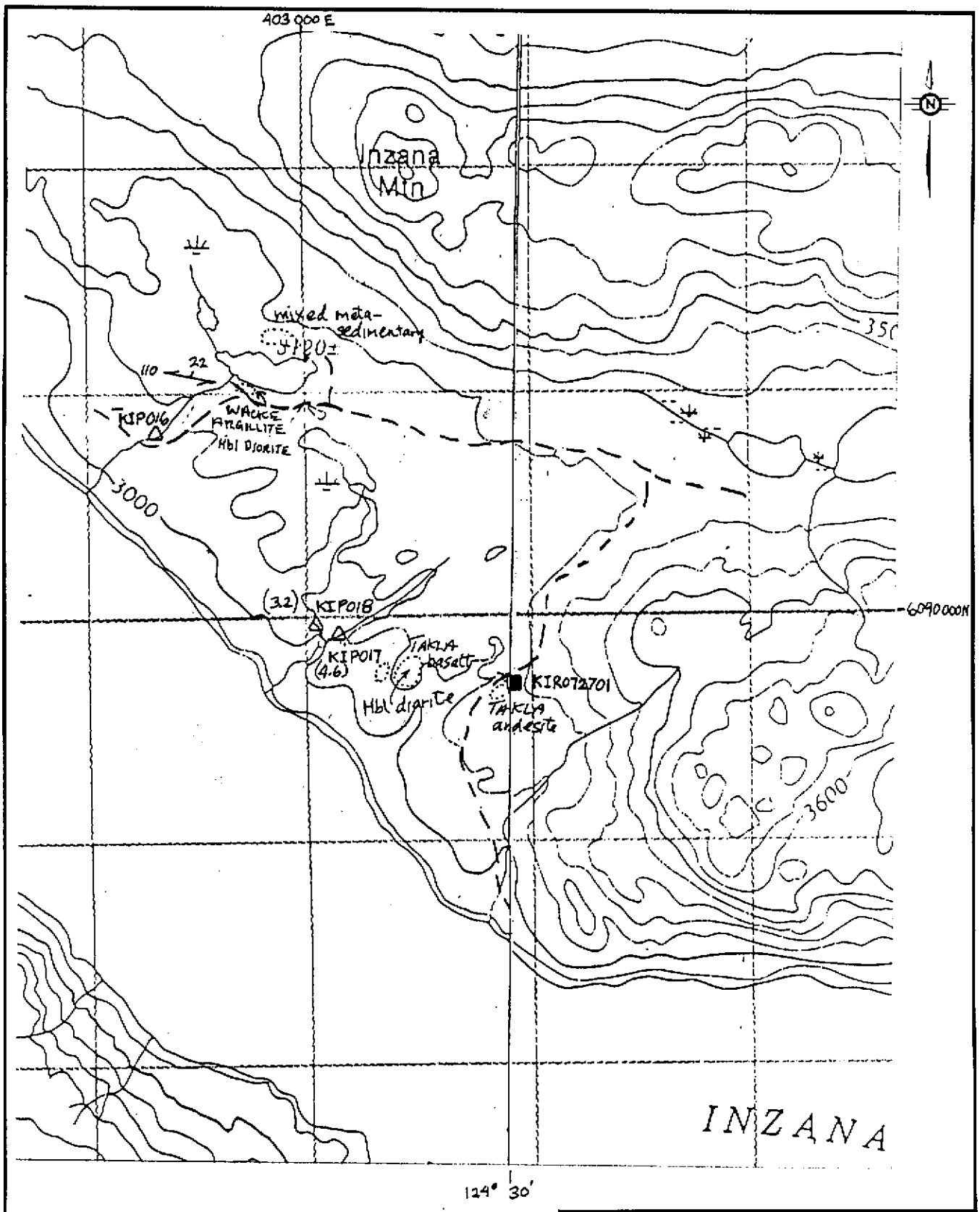
Inzana Lake Fig. 11

The Inzana Lake target is located approximately 60 km north of Fort St. James. The area is accessible by road via the Germansen road and Inzana-Main F.S. road. Target selection is based on a multi-element lake sediment anomaly, associated with a weak magnetic anomaly. Two gold analyses of 10 and 7 ppb were outlined in small lakes north of Inzana Lake. The 7 ppb, road accessible, anomaly was examined in late July. One and one-half days were spent prospecting and sampling in the area. Three creek panning samples and one rock sample were collected for geochemical analysis.

The area is underlain by metasediments of the Inzana Lake Formation of the Takla Group. An examination of the area also found mixed metasedimentary volcanic rocks and coarse hornblende diorite. Panning concentrate analyses ranged from 3.2 to 18.7 ppb Au. Other elements were uniformly low.

Discussion of results

Gold Concentrations in panning concentrates do not indicate anomalous source areas. The regional lake sediment anomaly remains unexplained.



LEGEND

Panning Sample Location △ (Au in ppb)

Rock Sample Location ■

Outcrop ⬭

Small Outcrop ×

Kalder Project 1999

Inzana Target

Scale 1:25,000

Fig. 11

GEOCHEMICAL SAMPLING REPORT

Project: KALDEN Property: ~~INZANA AREA~~ Claim Group: _____ Claim: _____
Sampler: HS-JM Traverse: _____ Grid: _____ Date: JULY 22, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line (~~Northing~~) (Easting)	Station (~~Easting~~) (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	KIP006	402274	6090841			STREAM SED ORG	NO COLOURS	1 pan concentrate
02	W144							
03						FROM WEST SIDE OF ANOMALY		
04						GOOD BLACK SAND BUT NO COLOURS		
05								
06								
07	AFTERNOON RETURNED TO ~~AREA~~ VA 2 GRID							
08	SURVEYED IN MORE GRID LINES							
09								
10		3400N	20→150E					
11		3800N	20E→10E					
12		3900N	20E→10E					
13		3500N	20E→15E					
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

GEOCHEMICAL SAMPLING REPORT

Project: KALDER Property: ~~INZANA TARGET~~ Claim Group: _____ Claim: _____
Sampler: US - JM Traverse: KI07027 Grid: _____ Date: JULY 27, 1999
Date Samples Sent: _____ Date Results Received: _____ Date Plotted: _____

	Sample Number	Line ~~(Northing)~~ (Easting)	Station ~~(Easting)~~ (Northing)	Horizon	Depth (cm)	Sed. Type	Colour	Notes (Rock Fragment Description)
01	ΔKIP017					PAN CONC	NO COLOURS	1 pan elev 3009'
02								
03	ΔKIP018					PAN CONC	NO COLOURS	1 pan from
04								
05						Stream draining lake, fines added		
06								
07								
08	KIR072701	403672	6089523	R		BROWN WEATHERING	V.F.G. MEDIUM GREY	
09	W 146					GREEN PYRITIC HORNFELSED TAKLA ANDESITE?		
10								
11								
12								
13								
14								
15								
16								
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CLOSURE: Last Station before reaching Base Line: _____ Distance to Base Line: _____
Line crosses BL _____ m _____ of Station _____
Daily Totals: Line-km _____ Number of Samples: _____

7. CONCLUSIONS

Till sampling is an effective exploration tool in the southern project area. In Dem-Hat area, contoured gold analyses suggest that there may be two source areas. One of them may be outside the project area. The sample density is too low at present to define a staking target. Prospecting did not locate any mineralization of interest. A number of float boulders were anomalous in gold but none have concentrations of economic interest.

Gold in panning concentrates in Rainbow Creek area were remobilized from previous placer deposits and therefore are not useful for defining bed rock mineralization.

A preliminary evaluation of a VLF-EM survey suggests that a massive sulphide shear/vein system, similar to the Tas Ridge Zone veins, may extend on to the Val 2 claim.

8. RECOMMENDATIONS

Additional till sampling is recommended in Dem-Hat and Lynx areas.

The VLF-EM survey on the Val 2 claim should be expanded. The survey interval needs to be reduced to 25 metres or less. Additional lines should be surveyed in the vicinity of the largest conductor. A magnetic survey should also be considered to help define this type of target.

9. BIBLIOGRAPHY AND REFERENCES

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Appendix A

CERTIFICATES OF ANALYSIS

ACME ANALYTICAL LABORATORIES LTD. (ISO 02 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902050

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
KD99070401	1	35	5	28	.3	567	47	1178	3.77	2	<8	<2	<2	710	.7	<3	<3	43	6.98	.012	<1	157	7.72	58	<.01	5	.21	.01	.02	3	<5	<1	<1
KD99070402	1	76	5	25	<.3	172	27	1003	5.18	98	<8	<2	<2	368	.9	53	<3	111	5.42	.046	1	355	3.58	97	<.01	6	.39	.01	.08	<2	<5	9	10
KD99070403	1	64	4	158	<.3	417	61	1021	5.40	102	<8	<2	<2	402	1.0	59	<3	95	7.38	.035	1	313	4.23	64	<.01	6	.34	.01	.08	<2	<5	25	6
KD99070404	3	129	<3	37	<.3	14	25	338	5.73	<2	<8	<2	<2	73	1.2	<3	<3	152	1.55	.189	8	28	1.26	102	.28	13	1.62	.08	.49	<2	<5	<1	3
KD99070405	4	13	3	23	<.3	1143	67	661	3.45	67	<8	<2	<2	10	.7	3	<3	17	.33	.008	1	384	5.13	69	<.01	13	.07	.01	.01	16	<5	2	5
KD99070406	4	88	<3	65	.3	36	16	552	4.38	<2	<8	<2	<2	24	.7	<3	<3	79	1.26	.074	7	32	.86	53	.23	5	1.38	.07	.08	5	<5	<1	3
KD99070407	1	60	3	50	<.3	121	26	1006	4.50	95	<8	<2	<2	332	.9	28	<3	120	6.98	.022	2	182	3.23	75	<.01	4	.56	.01	.01	<2	<5	5	4
KD99070408	3	68	3	42	<.3	186	35	980	4.60	170	<8	<2	<2	142	.7	30	<3	109	2.32	.027	4	176	1.35	152	<.01	<3	.49	.01	.05	6	<5	10	8
RE KD99070408	3	67	3	42	<.3	184	34	963	4.50	169	<8	<2	<2	139	.7	30	<3	107	2.28	.027	4	170	1.33	148	<.01	4	.48	.01	.05	5	<5	9	8
KD99W058	1	64	6	41	<.3	250	38	978	4.43	95	<8	<2	<2	472	.8	45	<3	87	8.48	.035	1	321	4.43	54	<.01	5	.46	.01	.08	<2	<5	9	7
KD99W068	1	146	56	85	1.1	8	16	1579	3.71	16	<8	<2	<2	259	.9	4	<3	55	4.27	.266	13	5	1.71	55	<.01	5	.69	.07	.14	<2	<5	<1	3
KD99W070	1	43	<3	42	<.3	26	18	723	3.00	8	<8	<2	<2	71	.9	<3	<3	120	3.98	.125	8	44	.89	81	.12	12	2.67	.03	.04	<2	<5	<1	3
STANDARD C3/AU-R	26	65	36	170	5.6	37	13	789	3.33	58	23	<2	20	29	23.5	13	20	82	.59	.087	19	170	.61	149	.09	22	1.84	.04	.16	20	<5	1	555
STANDARD G-2	2	2	4	43	<.3	8	5	560	2.07	<2	<8	<2	4	72	<.2	<3	<3	41	.67	.094	8	74	.61	225	.13	4	.96	.08	.47	2	<5	1	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 6 1999 DATE REPORT MAILED: July 13/99 SIGNED BY..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902212

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
KD070601	1	36	4	32	.4	168	24	990	4.62	21	<8	<2	<2	631	<.2	4	<3	101	11.34	.018	1	332	4.88	100	<.01	<3	.35	.03	.02	<2	<5	1	<1
KD070602	4	58	5	82	1.0	18	18	696	5.13	<2	<8	<2	<2	155	.3	<3	<3	156	2.33	.071	3	34	2.99	141	.17	<3	4.33	.58	.87	<2	6	<1	1
KD070603	2	99	<3	87	.4	30	21	881	6.00	5	<8	<2	<2	65	.6	<3	<3	223	2.26	.081	2	65	2.15	128	.27	13	3.22	.07	.32	<2	<5	1	1
KD070604	2	81	8	96	.7	26	28	1415	7.67	<2	<8	<2	<2	205	<.2	<3	<3	258	3.25	.071	2	63	3.65	88	.19	9	6.09	.82	.73	<2	12	1	1
KD070605	1	50	<3	91	<.3	439	54	1438	5.33	82	<8	<2	<2	255	9.1	15	<3	78	3.82	.052	2	259	4.59	136	<.01	<3	.53	.03	.18	<2	<5	3	12
KD070606	1	66	4	45	<.3	253	37	1524	5.05	6	<8	<2	<2	625	<.2	27	3	114	10.48	.059	2	336	4.75	53	<.01	<3	.43	.02	.08	<2	<5	1	<1
KD070607	2	51	4	67	<.3	337	52	277	1.97	338	<8	<2	<2	53	<.2	56	<3	37	.93	.014	<1	136	.63	333	<.01	<3	.31	<.01	.08	4	<5	8	26
KD070608	5	61	<3	40	<.3	198	30	100	2.48	326	<8	<2	<2	22	<.2	82	<3	25	.23	.007	<1	118	.16	69	.02	4	.57	.04	.08	11	<5	14	27
KD070801	2	238	6	58	.3	28	20	432	4.69	3	<8	<2	<2	58	<.2	<3	<3	210	1.10	.146	8	54	1.04	218	.18	7	1.33	.13	.63	<2	<5	<1	13
KD070802	1	92	4	65	<.3	291	56	1061	5.10	15	<8	<2	<2	319	<.2	23	<3	136	5.74	.121	3	296	2.57	148	<.01	<3	.50	.02	.10	2	<5	2	3
RE KD070802	1	92	6	65	<.3	293	54	1071	5.12	17	<8	<2	<2	320	<.2	26	<3	136	5.77	.118	4	302	2.58	140	<.01	<3	.48	.01	.09	<2	<5	2	2
KD070803	2	84	9	76	.5	23	24	1505	6.00	45	<8	<2	<2	230	<.2	34	<3	173	7.17	.073	5	46	3.09	99	<.01	4	.54	.01	.04	<2	<5	8	11
KD071101	1	171	<3	42	<.3	9	17	526	4.94	<2	<8	<2	<2	105	<.2	<3	<3	153	2.26	.212	7	28	1.34	110	.19	<3	1.92	.32	.27	2	<5	<1	3
KD071102	1	7	6	33	.3	4	2	192	1.20	<2	<8	<2	10	79	<.2	<3	<3	17	.69	.053	47	9	.07	372	.01	3	.39	.07	.20	3	<5	<1	<1
KD071104	1	55	<3	71	.3	18	21	1227	5.35	7	<8	<2	<2	66	<.2	<3	<3	168	1.92	.063	3	22	1.69	101	.29	<3	2.86	.10	.11	<2	11	<1	1
KD071105	1	31	<3	21	<.3	15	6	1799	4.40	18	<8	<2	<2	362	<.2	23	<3	60	12.10	.052	5	15	4.32	125	<.01	<3	.42	.01	.04	<2	<5	4	17
STANDARD C3/AU-R	26	66	33	165	5.7	38	12	786	3.41	56	16	3	19	29	23.5	19	24	82	.60	.086	19	173	.62	153	.08	16	1.83	.04	.16	15	<5	1	491
STANDARD G-2	2	5	5	43	<.3	7	3	553	2.11	<2	<8	<2	5	76	.2	<3	<3	42	.70	.095	8	80	.62	241	.13	<3	.95	.09	.47	3	<5	<1	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 14 1999 DATE REPORT MAILED: July 23/99 SIGNED BY. . . . . D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902213
656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
KDS001	9	50	6	510	.6	109	15	742	4.26	20	<8	<2	<2	34	3.4	6	<3	264	.50	.056	7	93	1.04	153	.11	5	3.05	.02	.09	2	<5	<1	1
KDS002	2	33	7	98	.3	44	13	411	4.11	12	<8	<2	<2	17	<.2	3	<3	93	.27	.040	8	44	.44	181	.04	5	1.35	.01	.09	<2	<5	<1	<1
KDS003	2	87	3	149	.8	93	32	1310	6.78	14	<8	<2	2	30	.5	<3	<3	216	.51	.107	4	321	2.09	211	.19	5	3.20	.01	.07	<2	5	<1	<1
KDS004	4	32	6	221	.7	39	11	507	3.71	13	<8	<2	<2	23	.9	<3	<3	82	.25	.258	9	45	.47	181	.03	4	2.05	.01	.09	<2	<5	<1	1
RE KDS004	4	30	9	214	.6	38	10	488	3.57	14	<8	<2	<2	22	1.3	3	<3	79	.23	.248	8	42	.45	173	.03	7	1.96	.01	.08	<2	<5	<1	1
STANDARD C3/AU-S	26	64	32	162	5.2	37	11	770	3.33	58	13	3	19	27	22.9	15	15	78	.55	.085	18	169	.58	156	.09	23	1.85	.04	.16	20	<5	1	55

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SOIL AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 14 1999 DATE REPORT MAILED: July 23/99 SIGNED BY C.L. D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902221

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Sc ppm	Te ppm	Ga ppm	S %
KD99001	2.09	56.28	9.43	116.6	86	77.9	21.3	969	3.70	11.8	.5	5.6	2.6	70.5	.81	1.93	.26	83	1.75	.077	10.3	55.1	1.02	288.0	.070	4	1.69	.028	.10	<.2	.24	218	1.2	.05	5.2	.02
KD99002	1.54	48.42	7.76	105.7	67	69.1	16.9	762	3.26	11.6	.5	4.5	2.6	64.0	.71	1.81	.15	74	1.77	.074	9.6	50.3	.92	206.9	.073	3	1.42	.026	.08	<.2	.20	256	.9	.04	4.4	<.01
KD99003	3.77	70.55	9.10	130.2	133	68.3	20.9	856	4.37	22.8	.4	5.1	2.4	59.9	.69	6.43	.15	87	.65	.091	11.6	55.8	.62	306.4	.059	4	1.45	.018	.09	<.2	.35	325	1.5	.04	4.5	<.01
KD99004	1.08	64.58	9.13	88.9	145	91.5	20.1	848	3.93	13.1	.5	3.7	2.6	49.7	.24	2.26	.15	88	.67	.075	11.4	83.6	1.19	276.2	.084	3	1.87	.019	.08	<.2	.16	242	1.4	.06	5.3	<.01
KD99005	.83	56.03	6.61	67.2	94	55.1	13.2	448	3.52	10.1	.4	2.3	2.0	37.4	.09	1.73	.11	103	.55	.059	8.9	84.0	1.03	181.5	.129	1	1.64	.029	.07	<.2	.09	144	.9	.04	4.9	.02
KD99006	1.62	198.49	16.73	108.1	235	57.8	24.2	1530	3.65	19.6	.3	2.9	2.8	58.2	.25	10.27	.32	56	2.61	.062	13.5	34.6	1.30	155.8	.008	<1	2.11	.012	.08	<.2	.07	132	1.2	.17	5.8	.02
KD99007	2.21	80.72	12.11	114.4	147	68.0	21.1	1063	4.06	25.2	.4	6.2	2.9	60.1	.61	3.34	.29	108	.81	.083	12.3	65.0	1.03	263.7	.122	2	2.02	.047	.15	.2	.21	161	1.3	.08	6.4	<.01
KD99008	1.62	65.92	10.69	109.6	212	66.0	18.2	903	4.03	14.3	.5	2.4	2.9	47.2	.31	1.67	.18	96	.66	.069	13.5	62.2	.83	265.9	.086	2	1.99	.024	.10	<.2	.19	255	1.5	.05	5.8	<.01
KD99009	1.46	57.62	8.63	100.2	58	75.0	18.1	832	3.94	12.7	.4	3.6	2.8	51.4	.21	1.62	.21	99	.74	.077	10.8	67.3	.88	280.2	.092	3	1.86	.032	.08	.2	.17	251	1.4	.07	5.5	<.01
KD99010	1.66	58.78	8.82	112.7	308	55.0	15.7	749	3.31	22.4	.5	6.9	1.9	126.1	.94	5.73	.14	72	5.83	.074	8.5	55.0	.91	257.0	.061	3	1.30	.020	.08	<.2	.23	212	2.1	.07	4.0	.04
KD99011	2.87	66.77	14.38	127.3	180	71.4	24.2	937	3.92	47.0	.5	3.0	2.5	99.9	.91	10.63	.24	94	2.66	.085	10.5	58.1	1.17	287.4	.100	4	1.80	.052	.13	<.2	.30	240	2.2	.08	5.5	.04
KD99012	2.59	93.20	13.53	126.2	133	76.5	22.8	2789	4.37	28.8	.5	6.5	2.8	70.9	.80	3.80	.27	110	.83	.089	13.2	64.0	1.04	296.8	.117	3	2.05	.040	.14	.2	.23	172	2.2	.10	6.7	.02
KD99013	.86	159.55	6.25	70.1	133	277.7	44.5	1097	4.95	17.8	.5	3.5	1.8	39.9	.10	1.26	.13	133	.77	.058	7.8	377.5	4.48	126.6	.165	2	3.29	.024	.05	<.2	.09	38	1.1	.04	8.5	.03
KD99014	1.47	65.41	10.05	108.4	128	67.0	18.8	932	3.97	19.9	.6	5.6	2.9	52.6	.41	2.43	.14	96	.63	.074	11.2	62.8	.90	245.0	.100	1	1.92	.025	.11	<.2	.18	159	.8	.05	5.9	.02
KD99015	1.28	70.26	10.66	108.2	164	61.9	15.9	694	4.35	15.5	.6	2.8	3.3	48.4	.07	1.66	.32	102	.56	.065	13.2	67.8	1.05	308.5	.089	2	2.40	.025	.11	.4	.18	149	1.2	.08	7.0	<.01
KD99016	2.33	85.80	9.65	125.8	222	86.3	24.2	981	4.46	21.0	.6	4.3	3.0	55.9	.39	3.93	.19	121	.69	.083	12.0	87.5	1.22	258.5	.130	4	2.21	.028	.13	.2	.22	357	1.3	.12	6.9	<.01
KD99017	1.14	67.04	7.53	83.9	83	52.6	14.5	615	3.82	18.0	.5	4.0	2.4	42.0	.12	2.18	.16	111	.55	.071	10.8	74.2	.88	227.5	.135	2	1.99	.027	.11	<.2	.14	226	.9	.05	5.9	<.01
KD99018	1.12	69.07	8.89	92.6	76	68.4	21.9	1025	4.22	23.1	.5	3.4	2.8	46.0	.27	2.34	.15	120	.67	.073	11.0	76.7	1.06	237.7	.150	3	2.11	.026	.14	<.2	.13	192	.9	.07	6.4	.01
KD99019	1.72	102.15	8.85	112.4	121	81.5	22.6	1917	4.89	15.9	.5	3.3	2.5	65.9	.28	2.05	.14	134	.95	.096	11.5	67.7	1.45	273.1	.189	2	2.51	.049	.14	<.2	.15	320	.9	.08	7.8	<.01
KD99020	1.29	72.70	8.88	101.7	105	75.2	22.8	1061	4.17	16.8	.5	4.0	2.5	49.5	.32	2.02	.13	113	.71	.078	10.1	73.1	1.14	243.1	.120	3	2.00	.040	.12	<.2	.17	434	.9	.07	6.1	<.01
RE KD99022	1.01	43.87	6.54	79.8	53	47.8	12.9	640	2.92	10.8	.4	<.2	2.0	62.3	.55	1.60	.09	80	1.28	.082	9.3	52.3	.80	158.5	.109	4	1.24	.028	.06	<.2	.11	289	.9	.05	3.8	<.01
KD99021	4.30	79.36	11.05	220.5	195	87.7	20.3	1220	4.36	18.9	.6	2.9	2.4	56.9	2.55	3.74	.14	105	.90	.077	10.8	64.0	1.16	237.6	.093	3	1.92	.030	.10	<.2	.29	499	2.0	.09	5.9	.03
KD99022	1.02	42.53	6.25	79.3	58	45.3	13.4	632	2.89	11.1	.4	.8	2.1	61.6	.56	1.64	.09	78	1.26	.081	9.5	52.4	.81	159.8	.106	3	1.24	.029	.06	<.2	.12	244	1.2	.07	3.9	<.01
KD99023	1.25	53.95	10.29	100.7	101	70.2	20.3	1050	3.62	12.8	.6	.4	2.8	71.0	.54	1.50	.15	82	3.01	.070	10.0	55.6	1.22	275.2	.080	2	2.00	.029	.10	<.2	.16	196	1.3	.07	6.1	.02
KD99024	3.89	92.30	9.53	104.0	216	56.6	14.9	697	4.03	25.0	.7	8.2	2.7	68.7	.33	3.31	.24	113	.66	.065	13.1	69.3	.96	261.0	.128	2	2.18	.030	.11	<.2	.16	170	1.2	.09	6.2	<.01
KD99025	1.80	54.04	7.79	107.7	110	68.0	16.9	761	3.54	14.1	.5	4.1	2.3	68.8	.61	2.29	.12	102	2.23	.078	9.4	64.7	1.15	369.0	.108	2	1.78	.041	.09	<.2	.17	317	1.0	.05	5.4	.01
KD99026	1.03	55.23	8.27	101.1	87	70.9	18.6	898	3.66	10.8	.6	.7	2.6	65.6	.45	1.14	.14	85	1.48	.073	9.6	59.2	1.27	219.3	.095	2	1.88	.036	.11	<.2	.15	328	.7	.04	5.6	<.01
KD99027	.95	51.77	8.37	93.2	105	66.5	15.5	765	3.55	11.4	.4	1.0	2.5	59.3	.47	1.47	.13	81	1.98	.073	10.3	61.5	1.07	258.5	.090	2	1.84	.023	.12	<.2	.12	218	.7	.06	5.4	.02
KD99028	.96	52.40	8.05	81.4	49	43.8	12.8	607	3.78	13.5	.5	2.4	2.6	30.4	.13	2.13	.13	89	.39	.053	9.9	57.5	.78	158.7	.086	1	1.91	.023	.09	<.2	.13	468	.7	.03	5.3	<.01
KD99029	1.14	58.31	11.93	116.1	259	58.9	15.1	657	3.84	23.6	.6	4.5	2.7	48.8	.31	3.74	.17	85	.62	.076	11.1	59.2	.87	237.3	.077	2	1.78	.024	.12	<.2	.15	168	.4	.07	5.2	<.01
KD99030	1.41	64.85	10.18	98.6	268	64.1	12.7	514	3.83	24.4	.6	19.0	2.8	47.2	.26	3.06	.19	92	.62	.070	12.2	68.3	.92	209.4	.088	2	2.00	.022	.10	<.2	.16	260	.7	.06	5.5	.01
KD99031	1.28	49.26	12.56	81.9	127	42.0	11.7	509	3.08	22.6	.5	3.8	2.1	37.0	.18	4.57	.17	78	.40	.047	14.4	51.0	.69	150.7	.094	2	1.44	.017	.06	<.2	.13	116	.1	.03	4.2	<.01
STANDARD DS2	14.19	127.50	30.55	162.3	250	37.9	12.7	817	3.33	62.5	20.6	204.6	3.6	28.4	11.45	10.08	10.95	82	.55	.081	13.3	166.3	.62	142.7	.117	2	1.77	.036	.16	7.1	2.09	244	2.8	1.71	6.0	.03

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: -230 TILL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 14 1999 DATE REPORT MAILED: July 27/99 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902386 Page 1

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Sc ppm	Te ppm	Ga ppm	S %
KDS005	.85	23.97	6.03	133.3	.88	40.5	13.7	837	2.93	5.0	.4	.9	1.2	28.3	.56	1.20	12	74	.51	.081	8.7	48.8	.54	151.5	.082	2	1.31	.014	.12	<.2	.10	58	.3	.03	4.5	<.01
KDS006	.82	21.26	4.83	82.0	152	34.4	12.2	611	2.66	5.1	.3	7.8	1.2	26.1	.29	1.19	.09	82	.40	.064	6.3	53.3	.60	136.8	.126	2	1.20	.024	.09	<.2	.08	76	.3	.03	4	1<.01
KDS007	.67	16.81	4.38	103.0	148	23.7	12.3	529	2.59	2.6	.2	1.0	.9	28.2	.52	.74	.09	90	.47	.088	5.2	58.3	.48	153.1	.104	2	1.07	.022	.10	<.2	.06	29	.2	.02	4.6	.01
KDS008	.97	20.84	4.59	52.2	98	29.7	9.0	347	2.32	5.3	.3	2.0	1.3	25.6	.15	1.07	.08	68	.34	.024	6.3	45.0	.57	96.7	.111	2	1.09	.019	.07	<.2	.07	73	.3	.03	3.5	.01
KDS009	.91	20.28	5.05	82.9	135	29.5	11.5	526	2.44	3.7	.3	11.8	1.1	26.4	.32	.94	.09	74	.38	.043	7.3	48.3	.57	120.8	.109	2	1.18	.020	.09	<.2	.06	47	.2	.03	4.4	.01
KDS010	.97	35.43	5.68	68.9	109	46.2	14.5	538	3.10	8.3	.4	1.8	1.2	31.2	.15	1.34	.09	102	.46	.042	7.8	62.6	.80	125.7	.123	2	1.33	.030	.07	<.2	.07	94	.4	.02	4	0<.01
KDS011	.90	25.38	5.08	97.5	83	50.3	12.7	395	3.18	8.1	.3	3.3	1.3	28.1	.28	1.36	.09	101	.44	.086	6.8	68.1	.77	132.3	.111	2	1.46	.024	.07	<.2	.07	61	.4	.03	4.2	<.01
KDS012	.98	20.73	4.63	120.7	67	26.4	12.5	426	3.19	3.1	.2	.7	.9	19.8	.66	1.00	.10	129	.31	.054	6.2	64.6	.49	87.6	.115	1	1.23	.027	.06	<.2	.08	28	.2	.02	5	4<.01
KDS013	5.72	56.95	8.26	147.4	812	57.8	11.3	522	3.96	10.0	1.3	3.9	2.6	34.1	.39	2.58	.24	93	.60	.037	13.8	75.6	.84	197.5	.092	3	2.15	.025	.11	.2	.17	166	1.9	.06	6.1	<.01
KDS014	.48	34.86	3.51	212.4	76	34.2	25.8	1524	4.30	2.5	.1	2.7	.6	48.1	.59	.59	.07	229	1.05	.104	2.8	46.6	1.15	275.2	.261	2	1.73	.119	.13	<.2	.04	35	.2	.02	7	0 .01
KDS015	1.37	17.96	4.75	56.9	116	22.5	10.6	265	2.73	3.8	.2	1.1	1.0	27.2	.14	.94	.08	113	.43	.029	5.1	52.9	.58	132.3	.126	1	1.22	.024	.05	<.2	.06	26	.2	.03	5.2	<.01
KDS016	1.00	40.43	6.35	79.8	64	35.5	16.5	618	3.59	10.1	.3	2.6	1.1	25.4	.14	1.28	.09	125	.46	.061	6.2	55.6	.98	159.1	.165	2	1.70	.023	.10	<.2	.07	38	.4	.03	5.8	<.01
KDS017	1.62	47.33	8.33	205.3	327	46.7	18.8	662	4.14	19.5	.4	2.3	1.3	45.2	1.25	1.78	.17	121	.71	.045	6.8	66.7	.83	278.2	.148	3	1.98	.021	.14	<.2	.10	74	.7	.06	6.4	.04
KDS018	.82	21.18	5.02	48.8	61	35.3	10.4	380	2.51	6.3	.3	1.5	1.4	31.1	.13	1.29	.07	62	.38	.044	6.6	40.0	.54	122.2	.092	2	1.10	.020	.05	<.2	.06	64	.4	.02	3.4	<.01
KDS019	.81	18.76	4.07	74.6	100	29.1	10.1	408	2.73	6.9	.2	1.9	1.0	26.9	.19	1.77	.14	67	.41	.057	6.3	40.0	.50	117.5	.066	2	1.21	.013	.08	<.2	.08	42	.3	.02	3.7	<.01
KDS020	.57	14.60	4.72	65.1	93	25.4	8.7	429	2.38	4.1	.3	1.5	1.4	25.1	.18	.68	.09	64	.37	.056	7.1	40.2	.56	116.8	.092	2	1.26	.013	.11	<.2	.06	40	.3	.03	4.0	<.01
KDS021	.64	9.89	4.05	106.8	177	21.8	7.9	506	2.07	3.0	.3	1.1	1.3	24.0	.50	1.94	.08	53	.30	.079	7.1	39.4	.44	155.4	.099	2	1.08	.016	.07	<.2	.06	31	.2	.02	3.6	<.01
KDS022	.52	15.73	4.34	56.1	62	29.5	8.8	416	2.33	3.2	.4	2.4	1.6	32.7	.17	.89	.08	59	.36	.030	8.1	44.7	.66	116.9	.140	2	1.21	.020	.08	<.2	.07	42	.3	.03	3.6	<.01
RE KDS023	.54	10.32	4.18	55.2	42	25.8	8.0	290	2.12	3.3	.6	1.9	1.5	28.3	.12	.88	.07	56	.30	.022	6.8	37.7	48	110.4	.111	3	1.16	.013	.06	<.2	.05	52	.3	.02	3.4	<.01
KDS023	.52	10.16	4.02	58.5	44	28.3	8.2	301	2.25	3.3	.6	.7	1.4	28.6	.11	.84	.06	60	.32	.024	6.7	38.1	.48	108.8	.110	2	1.16	.017	.05	<.2	.05	49	.3	.02	3.3	<.01
KDS024	.51	15.30	4.30	56.2	57	36.9	9.3	359	2.24	4.2	.4	5.2	1.5	33.0	.16	1.04	.07	58	.36	.052	8.1	50.0	.62	133.3	.106	2	1.16	.019	.06	<.2	.07	118	.3	.02	3.6	<.01
KDS025	.51	12.52	4.47	93.4	49	28.5	9.2	358	2.27	3.6	.3	6.7	1.5	28.3	.20	.51	.07	58	.35	.067	7.9	39.1	.58	123.3	.108	2	1.25	.012	.07	<.2	.06	38	.3	.02	3.8	<.01
KDS026	.65	13.33	5.32	138.7	258	38.4	10.1	1184	2.50	3.3	.3	2.6	1.2	36.1	.83	.34	.07	62	.53	.148	7.0	46.4	.49	246.5	.089	2	1.40	.014	.06	<.2	.07	42	.4	.02	4.3	<.01
KDS027	.65	27.63	5.24	101.3	137	39.6	9.8	1144	2.62	2.2	.6	5.9	1.4	29.7	.24	.66	.09	66	.48	.053	11.0	56.3	.57	180.4	.111	3	1.77	.021	.09	<.2	.12	80	.5	.02	4.6	<.01
KDS028	.59	15.88	5.21	72.1	73	35.8	9.0	295	2.73	4.0	.5	.7	1.5	32.6	.34	.73	.08	69	.54	.047	7.7	48.4	.52	156.2	.092	3	1.46	.014	.05	<.2	.07	61	.5	.02	4.5	<.01
KDS029	.58	17.97	4.54	66.0	46	35.3	9.7	424	2.51	4.4	.4	1.6	1.5	31.1	.18	1.06	.07	63	.35	.038	8.3	43.9	.65	115.8	.123	2	1.28	.020	.07	<.2	.07	108	.3	.02	3.9	<.01
KDS030	.39	9.17	3.67	53.6	44	19.9	6.8	353	1.80	2.1	.3	.7	1.2	27.5	.15	.28	.05	50	.34	.045	7.2	32.2	.46	99.6	.098	2	1.02	.013	.05	<.2	.04	98	.3	<.02	3.5	<.01
KDS031	.46	10.50	4.06	52.7	29	30.2	7.7	321	2.10	3.0	.3	.7	1.3	23.5	.17	.62	.06	56	.30	.041	6.5	39.9	45	106.8	.105	2	.96	.014	.05	<.2	.04	60	.2	<.02	3.1	<.01
KDS032	.56	14.35	4.46	57.3	38	29.2	8.6	458	2.26	3.5	.3	5.1	1.4	26.4	.13	.62	.06	58	.30	.030	7.2	38.3	.54	105.8	.105	1	1.12	.017	.05	<.2	.05	47	.2	.02	3.5	<.01
KDS033	.50	13.18	4.37	60.6	50	27.1	7.9	355	2.05	2.9	.3	1.1	1.3	24.1	.16	.63	.06	53	.30	.034	7.1	35.8	.55	98.8	.100	1	1.07	.015	.05	<.2	.05	57	.2	.02	3.7	<.01
KDS034	.51	11.14	4.20	64.7	37	24.3	7.3	273	2.00	2.8	.3	1.1	1.4	23.4	.15	.73	.06	54	.29	.033	7.5	35.3	.50	93.1	.107	1	1.07	.013	.05	<.2	.05	59	.2	<.02	3.6	<.01
KDS035	.53	14.67	4.21	66.5	54	27.4	8.7	574	1.98	2.3	.4	38.9	1.2	29.5	.30	.45	.06	52	.36	.046	8.0	38.0	.47	141.0	.091	1	1.10	.014	.06	<.2	.06	41	.3	.02	3.6	<.01
KDS036	1.11	17.93	5.44	75.1	85	38.5	10.6	534	2.65	5.9	.4	2.2	1.5	36.4	.45	.97	.08	62	.43	.062	8.8	45.4	.70	167.8	.121	2	1.36	.017	.09	<.2	.07	192	.5	.03	4.1	<.01
STANDARD DS2	13.56	127.81	28.08	162.3	236	39.1	12.4	820	3.39	62.2	20.0	198.1	3.5	30.4	10.68	9.44	10	77	82	.55	.081	13.4	162.4	.61	137.8	.113	2	1.78	.035	.16	6.9	2.03	237	2.5	1.81	5.9	.02

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 22 1999 DATE REPORT MAILED: Aug 4/99 SIGNED BY: C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data 1 FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
KDS037	.75	29.86	7.82	97.5	110	52.7	14.4	736	3.34	6.5	.6	1.8	1.6	35.8	.29	.95	.14	74	.42	.048	8.8	55.8	.95	186.3	.090	2	1.86	.011	.10	<.2	.10	104	.5	.03	5.7	<.01
KDS038	.66	11.14	4.33	62.3	86	27.6	7.4	253	2.06	3.3	.3	2.0	1.4	27.2	.17	.61	.09	56	.33	.042	6.8	40.5	.54	99.0	.095	1	1.13	.007	.05	<.2	.05	98	.2	.02	3.8	<.01
KDS039	.53	16.10	4.89	64.4	58	34.8	7.9	310	2.43	5.3	.4	3.0	1.5	26.1	.21	.87	.08	62	.35	.061	6.7	42.1	.59	96.5	.098	1	1.10	.008	.06	<.2	.06	117	.3	.02	3.7	<.01
KDS040	.45	14.45	4.23	94.0	120	29.6	7.6	420	2.15	2.9	.3	1.5	1.3	26.6	.30	.51	.08	53	.35	.052	7.5	32.8	.56	109.5	.086	2	1.14	.006	.07	<.2	.06	43	.3	.02	3.8	<.01
KDS041	.60	16.39	3.94	70.5	87	28.0	7.1	329	2.34	3.9	.3	2.7	1.2	25.7	.31	.81	.12	59	.33	.046	6.7	34.2	.53	92.6	.085	1	1.01	.008	.06	<.2	.06	64	.3	.02	3.6	<.01
KDS042	.76	15.65	4.85	71.6	72	28.4	8.1	316	2.29	3.8	.3	1.0	1.1	24.9	.27	1.24	.09	57	.29	.054	6.9	43.6	.59	94.4	.079	1	1.27	.009	.05	<.2	.07	76	.3	.02	4.3	<.01
KDS043	.58	18.17	5.53	63.6	85	37.9	9.9	497	2.46	4.9	.4	2.6	1.4	28.8	.16	.82	.17	60	.37	.054	7.8	51.2	.71	97.0	.094	2	1.19	.011	.07	<.2	.09	132	.4	.02	3.9	<.01
KDS044	1.33	27.14	6.37	155.9	152	59.6	14.3	1160	3.42	6.9	.5	1.5	.8	36.3	.60	1.39	.14	83	.49	.077	6.9	92.7	.91	209.5	.056	2	2.01	.010	.09	<.2	.12	115	.4	.03	5.9	<.01
RE KDS044	1.40	28.48	6.21	147.8	153	51.6	14.2	1142	3.36	5.7	.5	1.9	.9	41.5	.57	1.52	.14	77	.49	.076	7.3	83.1	.88	208.1	.074	3	1.99	.014	.10	<.2	.14	111	.5	.04	6.2	.01
KDS045	.72	24.85	5.19	87.0	171	44.5	9.4	561	2.64	5.2	.6	1.1	1.0	31.9	.31	3.41	.09	65	.37	.041	8.6	62.2	.76	143.2	.080	2	1.41	.012	.08	<.2	.08	50	.4	.02	4.3	<.01
KDS046	.60	14.73	4.89	125.7	126	34.1	10.2	625	2.25	4.1	.3	10.1	1.0	31.5	1.24	.90	.08	58	.47	.086	6.1	61.9	.54	175.5	.080	2	1.00	.011	.07	<.2	.06	42	.2	.02	3.9	<.01
KDS047	.98	22.66	5.48	190.0	171	39.3	10.5	470	2.29	3.5	.3	<.2	.8	25.0	5.77	.60	.08	63	.39	.031	6.8	80.2	.51	139.0	.075	2	1.13	.009	.05	<.2	.06	49	.6	.02	4.6	<.01
STANDARD DS2	14.13	129.88	29.86	164.9	261	37.9	12.8	833	3.36	61.5	19.7	202.0	3.6	33.0	11.20	10.04	10.95	83	.56	.082	14.5	167.2	.63	142.5	.117	2	1.86	.037	.16	7.3	2.15	244	2.5	1.80	6.3	.02

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 4 FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902387

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
KD99032	1.70	114.20	12.96	126.8	279	74.7	19.8	839	4.61	23.0	.6	5.1	2.8	42.8	.28	2.99	.26	125	.67	.076	13.2	75.7	1.30	227.8	.143	2	2.37	.033	.17	<.2	.23	164	.6	.08	7.9	.02
KD99033	.91	65.92	9.39	93.6	145	100.0	18.3	681	4.27	15.7	.7	3.6	2.7	44.9	.12	3.10	.16	99	.57	.064	11.0	94.4	1.21	221.5	.079	2	2.05	.019	.12	<.2	.15	1101	.4	.06	6.5	.02
KLT99034	1.11	62.83	10.38	106.0	94	73.8	20.0	975	3.79	13.0	.5	2.9	3.0	54.8	.39	1.23	.18	91	.83	.079	11.2	63.3	1.12	244.9	.090	2	1.97	.026	.12	<.2	.16	189	.1	.05	6.2	.02
KLT99035	.96	79.15	6.91	100.2	152	54.4	13.3	514	3.73	14.3	.6	5.3	2.7	41.3	.09	1.75	.20	105	.56	.057	11.6	76.1	.83	308.9	.100	1	2.19	.023	.09	<.2	.14	241	.5	.05	6.7	.01
KLT99036	1.04	61.89	9.70	102.5	120	66.6	18.9	848	3.72	12.5	.5	2.0	2.9	61.2	.42	1.17	.20	88	1.33	.075	10.8	62.0	1.21	268.4	.083	2	1.94	.032	.10	<.2	.17	140	.2	.06	6.1	.02
KLT99037	.84	61.18	8.29	92.7	214	62.0	14.1	601	3.70	11.2	.7	3.2	2.9	46.0	.20	1.18	.16	93	.61	.074	12.4	65.3	.95	269.5	.103	2	2.01	.028	.10	<.2	.15	192	.3	.04	6.2	.01
KLT99038	1.10	69.50	8.08	96.3	99	67.5	18.4	903	3.53	15.4	.4	3.3	2.8	48.5	.38	1.62	.23	95	.71	.085	10.6	62.6	.86	233.9	.111	2	1.74	.030	.10	.2	.16	168	.3	.07	5.3	<.01
KLT99039	1.04	72.44	8.50	108.1	243	62.8	15.0	678	3.83	12.4	.6	3.9	3.0	50.7	.15	1.39	.18	96	.65	.073	12.9	66.2	.92	274.3	.095	2	2.05	.022	.11	<.2	.15	153	.3	.06	6.4	.02
RE KLT99039	1.10	74.13	8.78	110.4	254	64.2	15.2	694	3.93	13.3	.6	4.2	3.1	53.1	.15	1.43	.18	100	.67	.075	13.7	67.4	.97	290.5	.105	2	2.18	.026	.11	<.2	.16	151	.3	.07	6.7	.01
KLT99040	.94	63.91	6.70	80.4	58	54.6	14.4	714	3.26	12.3	.6	4.7	2.6	45.3	.33	1.59	.13	88	.63	.091	10.9	52.9	.76	170.5	.112	2	1.59	.023	.07	<.2	.12	176	.2	.06	4.7	.01
STANDARD DS2	13.60	128.54	31.02	162.4	262	37.6	13.3	812	3.12	63.0	20.4	204.1	3.7	32.4	11.30	9.84	11.25	81	.55	.081	14.1	167.0	.62	140.7	.116	2	1.78	.035	.16	7.6	2.17	254	2.5	1.91	6.2	.03

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: -230 TILL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 22 1999 DATE REPORT MAILED: Aug 4/99 SIGNED BY: C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902388

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
KD99W040R1	2	57	7	48	.5	21	16	1124	4.35	42	<8	<2	2	363	<.2	3	3	78	7.59	.030	3	35	1.93	466	<.01	4	.48	.03	.13	<2	<5	<1
KD071301	3	45	<3	87	.3	157	21	832	3.91	159	<8	<2	<2	106	.3	<3	<3	72	1.89	.010	3	107	1.70	312	<.01	11	.45	.02	.03	2	<5	1
KD071302	<1	92	8	85	.7	34	14	853	3.56	17	<8	<2	3	153	.6	<3	<3	65	3.31	.087	13	21	1.63	225	<.01	8	.45	.06	.16	<2	<5	<1
KD071303	4	43	4	45	.6	142	26	2024	6.38	8	<8	<2	4	233	<.2	<3	<3	100	10.27	.033	3	222	3.80	141	<.01	4	.45	.01	.04	2	<5	<1
KD071305	1	5	15	32	.4	5	3	163	1.19	116	8	<2	9	29	.3	<3	6	4	.26	.053	35	8	.06	113	<.01	3	.38	.03	.21	2	<5	<1
RE KD071305	1	2	12	32	.3	5	2	161	1.18	116	<8	<2	9	29	<.2	<3	<3	4	.26	.050	35	8	.06	108	<.01	6	.37	.03	.20	<2	<5	<1
KDR071401	1	39	6	98	.5	26	12	1166	4.32	6	<8	<2	2	21	.4	<3	<3	98	2.30	.066	9	41	1.76	110	.39	13	3.15	.06	.04	2	<5	1
KLR071501	1	7	<3	20	<.3	1123	60	696	3.10	39	8	<2	<2	8	<.2	3	20	12	.17	.008	<1	155	.15	13	76	<.01	21	.06	.02	<.01	5	<5	1
KLR071502	1	86	4	66	.8	90	35	1777	5.96	7	<8	<2	2	217	.6	<3	11	191	6.08	.063	5	111	3.33	82	<.01	8	.61	.02	.09	<2	<5	<1
STANDARD C3	26	65	35	165	5.8	37	12	781	3.39	57	19	4	19	29	23.5	13	26	82	.58	.086	19	170	.62	151	.10	21	1.87	.04	.16	20	<5	1
STANDARD G-2	2	3	3	45	.3	8	5	541	2.04	<2	<8	<2	4	71	<.2	<3	<3	42	.64	.095	8	74	.62	223	.14	<3	.93	.07	.46	3	<5	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 22 1999 DATE REPORT MAILED: Aug 4/99 SIGNED BY. . . . . D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9904622

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Sample gm
KDP 001	1	31	10	70	<.3	42	13	693	3.62	14	<8	<2	2	42	.8	3	<3	101	.76	.062	10	96	.79	121	.10	6	1.14	.05	.10	<2	2.8	37.40
KLP 002	1	28	3	60	<.3	41	11	700	3.97	6	<8	<2	<2	46	.9	<3	<3	143	.72	.059	8	84	.74	115	.13	7	1.26	.04	.09	<2	1500.8	32.74
KIP 016	2	25	4	85	<.3	84	15	692	8.47	13	<8	<2	3	53	.2	5	<3	299	.94	.066	16	343	.68	97	.22	5	1.18	.08	.10	2	18.7	10.04
KIP 017	1	61	4	71	.3	49	29	1656	7.99	22	<8	<2	<2	124	.5	9	<3	288	1.54	.091	6	68	1.63	188	.20	<3	2.07	.10	.13	<2	4.6	9.40
KIP 018	1	21	<3	53	<.3	33	10	535	3.18	11	<8	<2	2	54	.5	<3	<3	89	.80	.049	9	75	.74	106	.14	6	1.32	.08	.11	<2	3.2	9.30
RE KIP 001	1	29	9	65	<.3	39	12	647	3.41	17	<8	<2	<2	39	.5	<3	<3	95	.70	.055	10	91	.73	113	.10	4	1.07	.04	.09	<2	3.0	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: PAN CONC. AU* GROUP 3A - 10.00 GM SAMPLE ANALYSIS BY ICP-MS.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 30 1999 **DATE REPORT MAILED:** Dec 9/99 **SIGNED BY.** D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT ELK File # 9904527R

656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Au* ppb
EAR 99081201	3.3
EAR 99082001	11.5
EBR 99082201	29.1
EBR 99082202	19.6
EBR 99082203	.5
EBR 99082204	.2
EBR 99082401	5.5
EBR 99082402	<.2
EBR 99082403	<.2
EBR 99082404	<.2
RE EBR 99082404	<.2
EBR 99082405	<.2
EBR 99090401	1.9
KIR 072701	6.5
STANDARD DS2	228.4

AU* BY ACID LEACHED, ANALYSIS BY ICP/MS (10 gm).
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 8 1999 **DATE REPORT MAILED:** Dec 14/99 **SIGNED BY:** D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data F FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Schmidt, Uwe PROJECT KALDER File # 9902388R

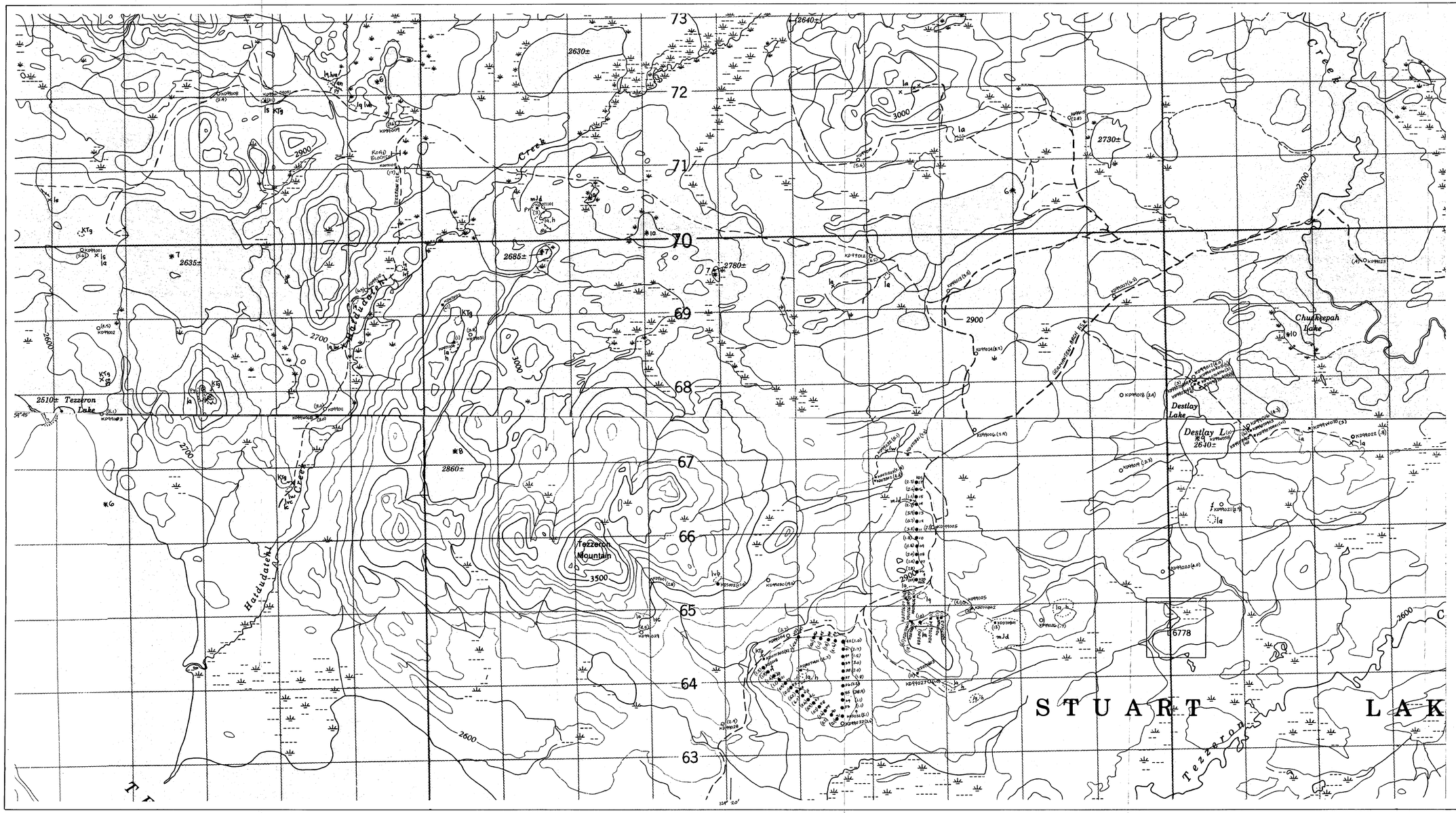
656 Foresthill Place, Port Moody BC V3H 3A1 Submitted by: Uwe Schmidt

SAMPLE#	Au* ppb
KD99W040R1	3.1
KD071301	7.5
KD071302	4.4
KD071303	2.4
KD071305	32.2
RE KD071305	30.2
KDR071401	2.7
KLR071501	7.8
KLR071502	2.5
STANDARD DS2	229.5

AU* BY ACID LEACHED, ANALYSIS BY ICP/MS (10 gm).
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 17 1999 **DATE REPORT MAILED:** Dec 23/99 **SIGNED BY.** C. ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___



LEGEND

CRETACEOUS-EARLY TERTIARY ?

KTg — quartz-feldspar porphyry, feldspar porphyry

MIDDLE JURASSIC

mJd — hornblende diorite

MIDDLE TRIASSIC-LOWER JURASSIC

Takla Group

TRTl — Inzana Lake Formation
Volcanic sandstone, siltstone, mudstone, argillite, andesite, lapilli tuff and sedimentary breccia

- lvb basalt
- lva augite porphyry
- lvh hornblende porphyry
- lvf feldspar porphyry
- lvc volcaniclastic, lapilli tuff
- lq siliciclastic
- la argillite
- ls shale/ siltstone
- lw volcanic wacke
- lc conglomerate

Symbols

- ✱9 R.G.S. lake sediment sample site, Au in ppb
- KD99032 (56) sample number and (Au in ppb)
- till sample location
- soil sample location
- rock sample location
- panning sample location
- outcrop
- small outcrop
- foliation

Alteration

h = hornfels
ca = calcite veining
an = ankerite veining or alteration
py = pyrite

0 1,000m 2,000m

Kalder Project 1999

Dem-Hat Area

Sample, Outcrop Location and Gold Geochemistry

99-29 (1)

Scale 1:20,000

Fig. 2