# REPORT ON STREAM SEDIMENT SURVEY

## KLAST 1 TO KLAST 5 CLAIMS

LIARD MINING DIVISION

NTS 104G/16

LOG NO: 07-01	RD.
ACTION:	
FILE NO:	

LAT 57°46'

LONG 130°14'

LOG NO:	Mars 6/91 RD.
ACTION:	Date received
back	from amendment
FILE NO:	

OWNER

CHRIS W. GRAF, P. ENG.

# WORK PERFORMED FROM JULY 31st TO AUGUST 12th 1990

REPORT BY

M. WASKETT-MYERS GEOCHEMIST

> GEOLOGICAL BRANCH ASSESSMENT REPORT

20.76

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## REPORT ON STREAM SEDIMENT GEOCHEMISTRY

## KLAST 1-5 MINERAL CLAIMS

#### LIARD MINING DIVISION

#### 1.00 SUMMARY

A helicopter supported, silt and heavy mineral sampling program was carried out on creeks flowing on and around the property.

A total of 16 sites were sampled, at which a silt and a heavy mineral sample were taken in each case for a total of 32 samples.

Only one sample gave a high gold value, however, other elements were found to be at elevated levels in most samples.

The work was performed by M. Waskett-Myers and N. Leach.

The Klast claims were staked along upper Quash Creek on the Klastline plateau to explore for the source of placer gold occurring in Quash Creek.

Total expenditure for this survey was \$5608.00.

#### 2.00 INTRODUCTION

2.10 Property Definition

The Klast property is 100% owned by Chris W. Graf of Vancouver, British Columbia and consists of 85 units 5,251.30 acres.

<u>Claim</u>	Name	Record No.	Number of Units	Expiry Date				
Klast	1	6772	15	February 23, 1991				
Klast	2	6773	18	February 23, 1991				
Klast	3	6774	20	February 23, 1991				
Klast	4	6775	16	February 23, 1991				
Klast	5	6776	16	February 23, 1991				

## 2.20 Location and access

The Klast property is located on approximately the centre of the Klastline plateau, 58 kilometres east-southeast of Telegraph Creek. Access is limited to helicopter from any of the bases in the area, in the present case the helicopter belonged to Yukon Airways Ltd. and was based in Dease Lake.

## 2.30 Topography and Vegetation

The property is in an area of varied topography, ranging from flat grassland to vertical cliffs. Elevations range from 1400 to 2000 metres. The vegetation consists mainly of alpine grasslands with some small scrub brush.

#### 2.40 Objectives

The geochemical survey was undertaken to assess the potential for base and precious metal mineralization within the survey area.

#### 3.00 GEOCHEMISTRY

#### 3.10 Sampling Procedure

Sample sites were preselected in the office and 16 silt samples and 16 heavy samples were taken in the field. At the sample site a sample of the stream silt was collected and put into a kraft paper bag. The heavy mineral sample was collected by screening, to -20 mesh, enough material to give a 3-5 kg sample. The heavy mineral samples were collected from parts of the stream where the water flow tended to slow down i.e. from high to low energy. Once collected, the heavies sample was put into a 6 mil plastic bag.

#### 3.20 Heavy Mineral Concentration

To eliminate sample prep and reduce transportation costs; the heavies were concentrated at the helicopter base in Dease Lake. The concentration was carried out by use of a Gold Genie spiral concentrator. The resulting concentrate was sieved to - 40 mesh, dried, the magnetics were removed and the remaining sample placed in a plastic vial.

#### 3.30 Analytical Procedure

All samples were sent to Min-En Labs in North Vancouver for analysis.

The samples were analyzed for gold by means of fire assay with atomic absorption finish. Following the gold assay the samples were run for 12 elements (Ag,As,Cd,Do,Cu,Fe,Mn,Ni,Pb,Sb,Zn,Sn) using inductively coupled plasma (I.C.P.).

## 4.00 CONCLUSIONS

The silts were not anomalous in any elements and did not give an indication of mineralization.

One heavy mineral sample showed an elevated value for gold (24 ppb) and, as well, high values were detected for several elements (Ag,Co,Ni,Fe,Mn,Sn,Cu).

There is an indication of possible mineralization with associated gold which makes this property worthy of further work.

# LEGEND FOR GEOCHEMICAL MAPS

# **HEAVIES**

- ▲ Au Greater than 20 ppb
- As Greater than 10 ppm
- Zn Greater than 200 ppm

# SILTS

- ▲ Au Greater than 10 ppb
- As Greater than 4 ppm
- Zn Greater than 200 ppm



Alienated claims





# STREAM SILT ASSAY RESULTS

# KLAST CLAIMS

SAMPLE NAME	AG PPM	AS PPM	CD PPM	CO PPM	CU PPM	FE PPM	MN PPM	NI PPM	PB PPM	SB PPM	ZN PPM	SN PPM	AU PPB
DS016	2.2	1.0	0.1	28.0	84	61190	1091	24	17	1.0	61	1.0	1
DS017	1	1.0	0.1	27.0	88	53550	1180	60	25	1.0	93	1.0	1
DS018	1	1.0	0.1	24.0	79	50250	1308	37	23	1.0	103	1.0	1
DS019	0.8	1.0	0.1	24.0	99	50060	1343	26	30	1.0	129	1.0	1
DS015	0.6	1.0	0.1	26.0	129	57430	1801	30	36	1.0	98	1.0	2
DS021	0.3	1.0	0.1	20.0	82	46900	1092	30	44	1.0	117	1.0	1
DS022	0.1	1.0	0.1	23.0	106	62000	1290	10	29	1.0	76	1.0	1
DS023	0.3	1.0	0.1	20.0	74	45830	1208	30	33	1.0	85	1.0	1
DS024	0.5	1.0	0.1	20.0	97	44960	1183	16	34	1.0	89	1.0	1
DS025	0.8	1.0	0.1	22.0	93	48240	1271	38	40	1.0	113	1.0	2
DS025	1	1.0	0.1	20.0	69	44510	1219	29	37	1.0	104	1.0	1
DS027	0.9	1.0	0.1	19.0	86	43270	737	29	30	1.0	79	1.0	1
5028	0.4	1.0	0.1	21.0	73	49080	1041	32	37	1.0	91	1.0	1
05029	0.5	1.0	0.1	26.0	72	54230	1209	50	26	1.0	83	1.0	1
DS030	3.8	1.0	0.1	40.0	39	80270	1023	39	13	1.0	63	1.0	1
DS031	7.3	1.0	0.1	47.0	54	89050	1025	47	11	1.0	87	1.0	1

# HEAVY MINERAL ASSAY RESULTS

# KLAST CLAIMS

SAMPLE	AG	AS	CD	CO	CU	FE	MN	NI	PB	SB	ZN	SN	AU
NAME	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB
DH16	2.1	1	0.1	44	198	115140	917	63	40	1	49	5	10
DH17	3.7	1	0.1	78	96	151890	1586	233	12	1	110	9	2
DH18	2.1	1	0.1	54	50	91510	1162	200	12	1	92	4	1
DH19	1.7	1	0.1	60	96	110060	1177	235	12	1	86	11	1
DH <b>20</b>	2	1	0.1	59	85	125470	1354	166	12	1	84	5	2
DH <b>21</b>	3.3	1	0.1	76	127	140770	1427	223	135	1	144	11	8
DH22	1.5	1	0.1	50	126	130400	1071	86	23	1	61	9	2
DH23	2.5	1	0.1	52	64	113460	1323	129	22	1	82	9	1
DH24	2.7	1	0.1	54	117	118760	1148	121	239	1	70	7	2
DH25	4.6	1	0.1	90	67	129030	1388	309	12	1	113	9	24
DH26	1.8	1	0.1	55	51	90970	1159	226	12	1	97	5	8
DH <b>27</b>	2.4	1	0.1	56	86	114880	1061	149	14	1	86	7	2
DH28	3.2	1	0.1	69	60	134120	1352	185	11	1	95	7	1
DH <b>29</b>	2.1	1	0.1	56	68	101100	1094	174	24	1	92	8	1
DH30	5.7	1	0.1	69	39	127560	1247	187	12	1	81	1	1
DH31	4.5	1	0.1	74	43	141620	1324	212	13	1	107	7	2

# EXHIBIT "A"

## STATEMENT OF EXPENDITURES

## STREAM SEDIMENT GEOCHEMISTRY

## KLAST 1-4 CLAIMS

# LIARD MINING DIVISION

Salaries	M. Waskett-Myers N. Leach	\$	487.52 250.08
Transportation	Air Fare Helicopter Car (incl. Gas)	3,	190.56 542.42 136.82
Room and Board	Motel, Food		145.66
Analysis	Heavies (Prep., Gold, I.C.P.) 16 samples @ \$16.75/sample Silts (Prep., Gold, I.C.P.) 16 samples @ \$13.00/sample		268.00 208.00
Field Supplies	Sample Bags, Vials, etc.		16.67
Miscellaneous	Radios, Maps, Cab Fares, etc.		63.63
Report Preparation	Chris Graf M. Waskett-Myers Supplies, Photocopying	<u></u>	125.00 164.00 9.91

TOTAL

\$5,608.00

M. WASKETT-MYERS, Geochemist

#### IN THE MATTER OF THE

## B.C. MINERAL ACT

#### AND

## IN THE MATTER OF A SOIL GEOCHEMISTRY PROGRAM

## CARRIED OUT ON THE KLAST 1 - 5 MINERAL CLAIMS

in the Liard Mining Division of the Province of British Columbia

## AFFIDAVIT

I, M. Waskett-Myers, of Delta in the Province of British Columbia, make oath and say:

- 1. That I am a Consultant Geochemist and as such, have a personal knowledge of the facts to which I hereinafter depose;
- 2. That annexed hereto and marked as Exhibit "A" to this my Affidavit is true copy of expenditures incurred on a Soil Geochemistry program, on the Klast mineral claims.
- 3. That the said expenditures were incurred between the 31st day of July, 1990 and the 12th day of August, 1990, for the purpose of mineral exploration on the above-noted claims.

M Washett - M you

M. WASKETT-MYERS Geochemist

# ACTIVE MINERALS LTD.

# STATEMENT OF QUALIFICATIONS

M. D. Waskett-Myers has worked in Mineral Exploration for the past twenty five years, principally in the field of geochemistry.

I consider him qualified to prepare this report.

Chris W. Graf, P. Eng. President



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	TRIASSIC AND JURASSIC POST-JURDER TRIASSIC PRE-LOWER JURASSIC		LEGEND				
	12 Svenite orthogiase complyry, monzonite pyrozenite						
		ſ	QUATERNARY				
	HICKMAN BATHOLITH		PLEISTOCENE AND RECENT				
DIOZO	to iii quartz diorite, hornblende-pyroxene diorite, amphibolite and pyroxene-bearing amphibolite		29 Fluviatile gravel; sand, silt; glacial outwash, till, alpine moraine and colluvium				
TES			28 Hot-spring deposit, tufa , aragonite				
	TDIASSIC		Olivine basait, related pyroclastic rocks and loose terbra: younger than				
	UPPER TRIASSIC	ō,	27 some of 29				
	9 Undifferentiated volcanic and sedimentary rocks (units 5 to 8 inclusive)	όχ)					
		ວິ	TERTIARY AND QUATERNARY				
	Augue andeside itows, proclastic rocks, derived volcanicitastic rocks and erited subvolcanic intrusions; minor greywacke, siltstone and polymicitic		UPPER TERTIARY AND PLEISTOCENE				
	conglomerate		26 volcanic intrusions; minor basalt				
	Sitstone, thin-bedded siliceous allstone, ribbon chert, calcareous and						
	7 dolomictic silistone, greywacke, volcanic conglomerate, and minor limestone		25 Basalt, olivine basalt, dacite, related pyroclastic rocks and subvolcanic intrusions; minor rhvolite; in part younger than some 26				
	Construct for the contraction of the second state of the second s						
	6 Il mestone; neurophic state younger than some 7 and 8		CRETACEOUS AND TERTIARY				
			UPPER CRETACEOUS AND LOWER TERTIARY				
	5 Greywacke, siltstone, shale; minor conglomerate, tuff and volcanic sandstone		SLOKO GROUP				
			24 Light green, purple and white rhyolite, trachyte and dacite flows, pyroclastic rocks and derived sediments				
	MUDLE TRASSIC						
l	A Sale, concretionary black shale; minor calcareous shale and slitstone	i	22 23 22. Biotite leucogranite, subvolcanic stocks, dykes and sills				
(							
	PERMIAN MIDDLE AND UPPER PERMIAN		SUSTUT GROUP Chert-pebble conglomerate, granite-boulder conglomerate, quartzose				
	Limestone, thick-bedded mainly bioclastic limestone; minor siltstone, chert	- 1	21 sandstone, arkose, siltstone, carbonaceous shale and minor coal				
	and tuff		Falsite quartz-feldenan namhven pyritifaraus falsite arbiaular shualites in				
8			20 part equivalent to 22				
δ	PERMIAN AND OLDER		<u></u>				
(TE	Phylite, argillaceous quartzite, quartz-sericite schist, chlorite schist,	1	19 Medium-to coarse-grained, pink biotite-hornblende quartz monzonite				
<u>م</u>							
			JURASSIC AND/OR CRETACEOUS				
	Imestone, crinoidal limestone, ferruginous limestone; maroon tuff, chert		POSI-OPPER TRASSIC PRE-TERITARY				
l	and phyllite		18 Hornblende diorite				
	Amphibelite amphibelite grades are management mobelly and linear two and	1	Granodiorite, quartz diorite; minor diorite, leucogranite and migmatite				
	B parotice, amparotice groups, age manown probably pre-opper our assic						
	Ultramatic rocks; peridotite, dunite, serpentinite; age unknown, probably						
	pe-boer drasse		JURASSIC				
			BOWSER GROUP				
	Coological boundary (defined and approximate, assumed)	1	Chert-pebble conglomerate, grit, greywacke, subgreywacke, siltstone and				
	Bedding (horizontal, inclined, vertical, overturned)		shale; may include some 13				
	Anticine		MIDDLE JURASSIC				
	Syncline		15 subvolcanic intrusions				
	Fault (defined and approximate, assumed)						
	Thrust fault, teeth on hanging-wall side (defined and approximate, assumed).		LOWER AND MIDDLE JURASSIC Shale, minor siltstone, silts				
	Fossil locality ©		14 ironstone				
	Mineral property						
	Glacier		Conglomerate, polymictic conglomerate; granite-boulder conglomerate, grit,				
			greywacke, siltstone; basaltic and andesitic volcanic rocks, peperites, pillow-breccia and derived volcaniclastic rocks				

INDEX TO MINERAL PROPERTIES

Published, 1972 Copies of this map may be obtained from the Geological Sure Conada, Citawa



Geology by J.G. Souther 1956-58, 1961, 1965-67, 1969

To accompany G.S.C. Paper 71-44 by J.G. Souther

This preliminary edition may be subject to revision and correction

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Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

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NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

> MAP 11-1971 TELEGRAPH CREEK BRITISH COLUMBIA

> > MAP 11-1971 PAPER 71-44

# TELEGRAPH CREEK

## BRITISH COLUMBIA



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