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ASSESSMENT REI	PORT 18367 M	INING DIVISION: Ske	eena
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CAMP:	050 Stewart Camp	n de la construcción de la constru La construcción de la construcción d	
LAIM(S): OPERATOR(S): AUTHOR(S): CPORT YEAR: COMMODITIES SEARCHED FOR: CYWORDS:	Gracey 1-4 Kengate Res. Hrkac, C. 1989, 25 Pages Gold,Silver,Copper Triassic,Sedimenta Cenozoic,Granodior	,Lead,Zinc ry rocks,Metamorphi ite,Fault,Gossan,Su	ic rocks,Jurassic,Granodiorite ulphides
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GRACEY CREEK PROPERTY

Skeena Mining Division

NTS 104B/7E & 104B/8W Latitude 56 20' N - Longitude 130 32' W Property Centre

> Prepared for Owner/Operator KENGATE RESOURCES LTD. 808-750 West Pender St. Vancouver, B.C. V6C 2T8

Report Prepared By QUEST CANADA EXPLORATION SERVICES INC. P.O. Box 11569 Vancouver Centre Suite 840, 650 West Georgia Street Vancouver, B.C. V6B 4N8



C. Hrkac

January 1989

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TABLE OF CONTENTS

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		<u>Page</u>
INTRODUCTION		• 1
SUMMARY		• 2
PROPERTY AND OWNERSH	HIP • • • • • • • • • • • • • • • • • •	• 5
LOCATION AND ACCESS		• 5
PHYSIOGRAPHY AND VEC	GETATION	. 6
HISTORY		• 6
REGIONAL GEOLOGY		• 7
PROPERTY GEOLOGY		•
1988 EXPLORATION PRO	DGRAM	• 8
a. Summary of Work	Performed	• 8
b. Geological Surve	≥y • • • • • • • • • • • • • • •	. 10
Mineralization .		. 10
c. Geochemical Surv	vey	• 11
i. Soil Geoche	emistry	• 11
ii. Heavy Miner	ral Sediment Sampling	. 12
CONCLUSIONS & RECOMM	MENDATIONS	. 14
STATEMENT OF COSTS		• 15
STATEMENT OF QUALIFI	ICATIONS	16
		RECENCER RECERDER
	APPENDICES	icr .
	M.R. #	1 6 1989
APPENDIX I	ROCK SAMPLE RESULTS	COUNTR \$
APPENDIX II	CONTOUR SOIL SAMPLE RESULTS	OVER, B.C.
APPENDIX III	HEAVY MINERAL SEDIMENT SAMPLE RESUL	TS
APPENDIX IV	ROCK SAMPLE DESCRIPTIONS	
APPENDIX V	HEAVY MINERAL SAMPLE DESCRIPTIONS	
Α Ο Ο ΕΊΝΙ ΤΥ ΥΤ	SOIL SAMPLE DESCRIPTIONS	

LIST OF FIGURES

<u>Figure</u>			<u>Page</u>
1. Location Map	1:7,000,000		3
2. Claim Map	1: 50,000		4
3. Sample Location Map	1: 10,000		9
4. Prospecting Map	1: 5,000	· · · · · · · · · · · · · · · · · · ·	in pocket

INTRODUCTION

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Kengate Resources Ltd. owns the Gracey Creek property, which consists of 4 contiguous claims totalling 80 units. This report on the Gracey Creek property was prepared at the request of the directors of Kengate Resources Ltd. for the purpose of fulfilling the assessment requirements, and describes the 1988 exploration program. The program included prospecting, rock and soil geochemical sampling, and stream heavy mineral sediment sampling.

The purpose of the program was to explore the favourable rock units on the property on a regional basis to delineate possible future exploration targets. Work on the property was carried out between October 16 and October 23, 1988.

SUMMARY

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The Gracey Creek property is comprised of four contiguous mineral claims located in the Skeena Mining Division. The claims cover a section of the Gracey Creek drainage which flows into the South Unuk River.

The property is owned and operated by Kengate Resources Ltd.

Access to the property is by helicopter 60 kilometers northwest from the town of Stewart, B.C.

known work was conducted on the property prior to the 1988 No exploration program. The 1988 exploration program concentrated prospecting and sampling in the northeast corner of the Gracey on 1 claim and the northwest corner of the Gracey 2 claim. This program included the collection of 6 rock samples, 15 soil samples, and 7 heavy mineral sediment samples. The results of this work show that the program was successful in locating three copper-lead-zinc-silver-gold showings, and that soil sampling new seem to be a viable method of delineating exploration does not targets in this area.





PROPERTY AND OWNERSHIP

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A DESCRIPTION OF

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The property comprises four mineral claims consisting of 80 units situated in the Skeena Mining Division of British Columbia. The location and configuration of the claims are shown on Figures 1 and 2 respectively. The following table summarizes all the pertinent claim data.

Claim	Record	No. of	Rec	cord	Exp	piry	
Name	No.	Units	Da	ate	Da	ate	Owner
Gracey 1	5758	20	Jan.	29/87	Jan.	29/89	Kengate
Gracey 2	5759	20	Jan.	29/87	Jan.	29/89	Kengate
Gracey 3	5760	20	Jan.	29/87	Jan.	29/89	Kengate
Gracey 4	5761	20	Jan.	29/87	Jan.	29/89	Kengate

LOCATION AND ACCESS

The Gracey Creek property is located in the Coast Mountains, 60 air kilometers northwest of the town of Stewart, B.C. (Figure 1.). The nearest useable road, the old Granduc mine road, is situated approximately 20 kilometers to the east. To date, access to the property by any means other than helicopter is unfeasible.

The property is approximately bisected by Gracey Creek, which flows in a northeasterly direction. Four kilometers downstream from where Gracey Creek crosses the northern boundary of the property is the Gracey Creek - South Unuk River confluence. The southern boundary of the property is only four kilometers north of the British Columbia - Alaska border. The southeast corner of the property is situated near the toe of the McKenzie Glacier and the northwest corner is located on the glaciated McQuillan Ridge.

PHYSIOGRAPHY AND VEGETATION

The property is characterized by steep slopes throughout, with the exception of moderate terrain found at the valley bottoms and on high, largely glaciated uplands. Small creeks deeply incise many of the hillsides. Elevations range from 427 to 1920 meters.

vegetation types found on the property correlate more or less The directly with elevation, with only lichens and mosses found at extremely high elevations, alpine plants and dwarf bushes at high elevations. small to medium size coniferous trees (hemlock, fir, etc.) and deciduous trees (mountain balsam, alder, spruce, poplar, etc.) at the moderate elevations, and medium to large size coniferous-deciduous at the lower elevations. trees Although most of the Gracey Creek property is heavily vegetated, there are still extensive well-exposed rock outcrops.

HISTORY

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there is no record of previous work on the Gracey Creek ŤΟ date, property. It is, however, possible to speculate that parts of property may have been examined because of its proximity to the the impressive high-grade gold deposit on the Doc property to the east. Mineralization on the Doc property was discovered around the turn of the century, so there has been activity in the area considerable time. Moreover, the eastern half of the Gracey for Creek property has very similar geology to that of the Doc and therefore it is possible that the area has received property, at least a superficial look.

6 -

In 1988, the only evidence which indicated possible earlier work was the remains of a primitive camp located along Gracey Creek. However, the camp may have been used by personnel associated with the regional geological study carried out in the area between 1964 and 1970 for the B.C. Department of Mines.

REGIONAL GEOLOGY

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The Gracey Creek property straddles the western contact of the Coast Plutonic Complex and the Intermontane Belt, lying within a large region known as the Stewart Complex (Grove, 1986). This complex hosts middle Triassic to Quaternary sedimentary, volcanic and metamorphic rocks. The Coast Plutonic Complex is comprised mainly of Cenozoic granodiorite, quartz diorite, quartz monzonite and granite.

PROPERTY GEOLOGY

The Gracey Creek property comprises three major rock groups as follows:

- a. Cenozoic plutonic granodiorite to the west.
- b. Upper Triassic siltstone, sandstone and conglomerate to the north.
- c. Upper Triassic gneiss, cataclasite and mylonite to the east. A minor narrow, elongate dike-like Middle Jurassic granodiorite intrusion occurs within the above Upper Triassic unit.

A major thrust fault diagonally bisects the property, forming the Gracey Creek valley, with the Upper Triassic sedimentary units comprising the hanging wall and the Upper Triassic gneiss, cataclasite and mylonite forming the footwall.

1988 EXPLORATION PROGRAM

a. Summary of Work Performed

Field work on the Gracey Creek property was conducted by Quest Canada Exploration Services Inc. from October 16 to 23, 1988.

The 1988 work program on the property consisted of stream heavy sediment sampling, prospecting and rock sampling, and contour soil sampling (Figure 3 and 4). All work was carried out on foot from a camp located at the confluence of Gracey Creek and an unnamed creek (hereafter referred to as "Canyon Creek") originating from the toe of McKenzie Glacier.

Despite inclement cold, snowy weather, the crew managed to find a noteworthy mineral occurrence anomalous in base and precious metals on the heavily vegetated slopes approximately 900 meters southeast of the camp. In the same general vicinity, 300 meters uphill and southeast of the above mentioned showing, a large malachite stained shear zone was sampled and later returned anomalous copper values.

Due to the extremely steep topography, the stream beds contained little or no sediment and hence heavy metal sampling was extremely slow, rendering results of limited value. The contour soil lines, while more successful, revealed nothing of great significance. There was, however, one sample that was anomalous in tungsten.

Finally, during a reconnaissance helicopter survey of the property, interesting well-exposed gossans and promising geology were spotted along the upper reaches of Canyon Creek. This area, however, proved to be inaccessible from



camp. An impenetrable band of cliffs was encountered during an attempt to investigate the upper Canyon Creek area. It is recommended that in future a camp be established by helicopter above the impasse, as the area warrants attention.

b. Geological Survey

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Very little geological mapping was done on the property during the 1988 field program. The limited amount that was performed confirmed the extensive and thorough mapping carried out in the area by E.W. Grove between 1964 and 1970. Specifically, the Cenozoic granodiorite plutonic unit was observed in numerous outcrops near camp, especially along the lower reaches of Creek. Canyon The Upper Triassic metamorposed unit was encountered extensively east of camp. unit, in the areas of the property that were visited, This exhibited thin, white to dark grey, wavey banding characteristic of mylonite. The parent rock is likely volcanic sediments, though this cannot be stated conclusively. The trend of this unit was generally northwesterly, with no dips noted. Significant Au and Ag mineralization was found in the Upper Triassic banded mylonite east of camp.

Mineralization

A short distance southeast of camp, a gossanous alteration zone in the Upper Triassic banded mylonite was found. Further prospecting in heavy vegetation located a minor fracture-hosted massive sulphide occurrence. The two samples taken from this showing produced appreciable Cu, Pb, Zn, Au, and Ag values as noted below:

Sa	ample	Cu	Pb	Zn	7	Au	(Ag
E	21354	0.16%	2.08%	0.02%	0.100	oz/ton	2.12	oz/ton
Е	21355	0.14%	1.87%	0.03%	0.054	oz/ton	2.09	oz/ton

- 10 -

Approximately 100 meters downslope and southwest of the above occurrence, another showing in the same gossanous altered zone was located and sampled. While the sample taken here showed depressed precious metal values, it was anomalous in base metals, most notably Zn.

 Sample
 Cu
 Pb
 Zn
 Au
 Ag

 E 21351
 0.07%
 0.70%
 1.50%
 0.002 oz/ton
 0.53 oz/ton

A second area of less significance was located in a large shear zone on the southeast section of a prominent knob on the north side of Canyon Creek. Here, a malachite stained quartz-carbonate altered argillite sample was taken. This sample showed anomalous base metal values and muted precious metal values:

Sample	Cu	Pb Zn	Au	Ag
E 21352	0.06%	0.35% 0.70%	0.190 oz/ton	0.001 oz/ton

The remaining two samples taken from the property showed nothing of particular interest other than slightly anomalous base metal values.

c. Geochemical Survey

i. Soil Geochemistry

soil line was established east of camp, short contour Α west-facing cliffs break into moderate steep where terrain. total of 15 samples were taken at 25 meter A Samples S-88-01 through S-88-05 were taken at spacing. 605 meters elevation and samples S-88-06 through S-88-15 elevation of 585 meters. The contour taken at an were soil line was oriented in a northerly direction, with its southernmost samples (S-88-01 to S-88-04) crossing about meters below the massive sulphide occurrence reported 50 previously.

the samples showed very muted metal values. Overall, Samples S-88-01 to S-88-04 gave depressed results in spite of the fact that a significant outcrop containing massive galena and rich in Au and Ag was found only a short distance uphill. The soil samples across this area were, however, noted to have very poor B-horizon development, which could in part explain the disappointing results.

The most interesting results were represented by sample S-88-08, which produced an extremely anomalous tungsten value as well as elevated Mo, Cu, Zn, Ag, and As values. Of potential significance is the fact that this sample was taken very near a northwest trending granitic dike which occurs within the Upper Triassic metamorposed package.

Finally, it is worth noting that zinc values show a consistent increase towards the northern end of the soil contour line.

ii. Heavy Mineral Sediment Samples

Seven heavy mineral samples were taken from streams draining the steep eastern slopes of the Gracey Creek valley. All except two of the samples were taken from streams with very steep gradients, resulting in poor or non-existent sediment collection.

Heavy mineral samples HS-6 and HS-7 were obtained from creeks which drain the general area from which all the rock samples were collected. Sample HS-7 yielded the highest Au value (127 ppb). This sample was taken from the largest of the streams sampled, Canyon Creek, and had well-developed and sorted fine sediment, good for accurate heavy mineral geochemistry results. In contrast to this sample, sample HS-6 yielded very low Au values.

The only other sample of interest was HS-2, which was moderately anomalous in Au (105 ppb). In general, on a regional basis, the heavy metal values produced by the seven samples are low; the poor quality of the samples (with the exception of HS-7) may have contributed to this.

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CONCLUSIONS AND RECOMMENDATIONS

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The 1988 exploration program of prospecting, rock and soil geochemical sampling, and heavy mineral sediment sampling was successful in locating three new copper-lead-zinc-silver-gold showings. The most significant of these showings is a fracture-hosted massive sulphide occurrence within the Upper Triassic banded mylonite. A contour soil survey below these showings returned low values for all elements and was therefore unsuccessful in further delineating areas of interest. The heavy sediment samples were also unsuccessful in locating mineral potential areas of interest.

It is recommended that a more aggressive exploration program be implemented for the 1989 season. This program should concentrate on prospecting, with emphasis on the upper section of Canyon well as trenching of the existing mineral showings. Creek, as Even with the low values returned from the heavy mineral sampling further samples should be taken from the upper section program, of Canyon Creek and its tributaries. The streams from which heavy HS-2 and HS-7 were taken should be further mineral samples they returned the highest gold values. The area investigated as S-88-08, which returned a very high tungsten of soil sample should be prospected to try and locate the source of the value, anomaly.

STATEMENT OF COSTS

Personnel	
J. Herrero: 9 days @ \$200.00/day C. Johnson: 9 days @ \$200.00/day	\$1,800.00 1,800.00
Transportation	2,997.30
Equipment Rental	60.00
Food and Accommodation	495.99
Assays	492.00
Report	772.51
TOTAL	\$8,417.80

Submitted by

Chris A. Hrkac 111.

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STATEMENT OF QUALIFICATIONS

I, C.A. Hrkac of 4419 West 9th Avenue in the City of Vancouver, Province of British Columbia, DO HEREBY CERTIFY:

- THAT I am employed by Quest Canada Exploration Services Inc. with offices at Suite 840, 650 West Georgia Street in the City of Vancouver, Province of British Columbia;
- 2. THAT I am a graduate of the University of British Columbia in 1982 where I did obtain by Bachelor of Science degree in Geology;
- THAT I have practised my profession continuously since graduation;
- 4. THAT I have conducted various mineral exploration programs in B.C., Yukon, Northwest Territories, Nevada and Arizona;
- 5. THAT I have no interest in the Gracey Creek property or in the securities of Kengate Resources Ltd., nor do I expect to receive any;
- 6. THAT this report is based on data supplied by Kengate Resources Ltd., on literature and documentation available for public inspection, and on data collected from the property from October 18 to 23, 1988.

Dated at Vancouver, British Columbia this 3 day of FEBUARY, 1989.

Chris A. Hrkac, B.Sc.(Geol.)

APPENDIX I ROCK SAMPLE RESULTS

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SAMPLE	No PPN	Ct PPN	Pb PPN	Zn PPN	Ag PPH	NI PPM	Co PPN	NB PPN	Te t	As PPN	U PPM	Au PPN	Th PPN	Sr PPM	Cđ PPN	Sb PPN	Bi PPM	V PPH	Ca	P 3	La PPN	Cr PPN	Ng t	Ba PPN	Ti Z	B PPN	A1 3	Ha }	I Ş	W PPN	Au* PPB		
E 21351 E 21352 E 21353 E 21354 E 21355	4 24 41 10 10	662 473 320 1646 1436	7032 3530 23 20843 18666	15243 6975 128 ✓ 189 ✓ 295	(17.0 6.1 .6 67.9 65.9	88 98 61 102 102	58 26 17 31 32	183 214 167 213 222	4.55 4.23 3.49 8.27 8.41	5 5 2 11 8	5 5 5 5 5	ND ND ND ND ND	2 1 2 1 1	19 11 34 14 13	420 175 1 56 51	2 2 35 30	2 3 2 20 34	41 74 244 20 19	.50 2.15 2.13 .39 .42	.066 .065 .110 .061 .066	5 2 3 3 4	35 81 89 14 9	.70 1.05 1.01 .38 .38	64 8 149 13 8	.15 .10 .16 .03 .03	6 3 5 6 2	.86 2.38 1.84 .72 .69	.02 .01 .05 .02 .02	.16 .01 .19 .01 .01	1 1 1 7 8	55 24 9 3150 1730		
E 21356 S7D C	1 18	24 57	419 38	26 131	.5 7.1	6 64	4	261 1026	1.11 3.96	2 37	5 20	ND 7	3 36	53 47	1 17	2 19	2 19	37 56	1.34	.046	6 38	12 55	.24 .88	30 173	.05	4	1.34	.02	.06	1 -13	10		

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ROCK SAMPLE RESULTS

APPENDIX II CONTOUR SOIL SAMPLE RESULTS

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ACME ANALITICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1,16

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GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HMO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MM PE SE CA P LA CR MG BA TI B W AND LIMITED FOR MA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPN. - SAMPLE TYPE: P1 SOIL P2 STREAM SED P3 ROCK AU* AMALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

QUEST CANADA EXPLORATION File # 88-5450 Page 1

SAMPLES		Pi	NO PN	CU PPN	PL PPN	ZD PPN	Ag PPN	N PPI	L C L PP	O N N PP	n Pe H X	λs PPN	U PPN	Au PPN	Th PPN	ST PPN	Cd PPN	SD PPN	Bİ PPN	V PPN	Ca t	P \$	La PPM	CT PPN	Ng Z	Ba PPH	Ti X	B PPM	גן ג	Na R	I }	¥ PPM	Au* PPB
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5-88-11			1.	102	15	109	.3	22	1	622	4.14	5	5	ND	1	119	1	2	2	80	. 58	.153	9	23	96	151	. 17	,	4 19	01	17	7	. 17
S-88-12			1	175	. 40	123	· · . 3	41	33	1054	5.05	10	5	ND	1	11	1	2	2	- 86	1.32	151	15	46	2 84	120	17		2 96	07	28	, e	
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5-88-15			1	25	12	29	.4	10	5	200	1.88	2	5	ND	1	21	1	2	2	64	.41	.041	3	15	.26	30	.13	10	. 69	.01	.04	1	17
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CONTOUR SOIL SAMPLE RESULTS

APPENDIX III HEAVY MINERAL SEDIMENT SAMPLE RESULTS

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H.S. #6 H.S. #7 STD C/AU-S	2 1 17	87 55 58	18 41 44	109 45 132	.1 .2 6.5	30 16 67	12 11 29	351 275 1047	2.88 2.90 4.03	3 4 40	5 5 23	ND ND 7	1 2 37	72 39 47	1 1 17	2 2 19	2 2 20	64 55 57	1.28 1.35 .51	.064 .062 .091	4 5 38	20 18 55	.87 .60 .93	155 95 172	.13 .08 .06	2 2 35	2.33 .94 2.01	.06 .03 .06	.20 .10 .14	1 5 12	8 127 52		

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HEAVY MINERAL SEDIMENT SAMPLE RESULTS

APPENDIX IV ROCK SAMPLE DESCRIPTIONS

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ROCK SAMPLE DESCRIPTIONS

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SAMPLE #	DESCRIPTION
21351	Elevation 1995 feet banded green to grey green meta-volcanic. Contains minor (<5%) pyrite, pyrrhotite and galena.
21352	Elevation 2320 feet. Dark grey to black fine grained volcanic with small (<5mm) quartz and carbonate stringers. Contains minor (<3%) pyrite and malachite staining.
21353	Elevation 2110 feet. Rusty weathering banded meta-volcanic. Contains fine grained disseminated pyrite and pyrrhotite (<2%). Some chalcopyrite associated with minor calcite veining.
21354 and 21355	Elevation 2110 feet. Rusty weathering, dark grey-green meta-volcanic. Contains abundant (>70%) galena with minor (<3%) amounts of pyrite, pyrrhotite and chalcopyrite.
21356	Elevation 1920 feet. Rusty weathering banded green-grey meta-volcanic with abundant carbonate stringers. Contains minor (<3%) pyrite and pyrrhotite.

APPENDIX V HEAVY MINERAL SAMPLE DESCRIPTIONS

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HEAVY MINERAL SAMPLE DESCRIPTIONS

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Sample #	Stream Width	Slope	# of Pans	Dominant Float Material
HS #1	0.5 metres	22	15	Grey-green meta-volcanic
HS #2	0.5 metres	20	5	Green-grey meta-volcanic
HS #3	1 - 2 metres	22	7	Meta-volcanic and minor granodiorite
HS #4	1 - 2 metres	18	6	Granodiorite
HS #5	0.25 - 0.5 metres	22	7	Green-Grey meta-volcanic
HS #6	0.5 - 1.0 metres	8	10	Granodiorite

APPENDIX VI SOIL SAMPLE DESCRIPTIONS

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SOIL SAMPLE DESCRIPTIONS

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Contour Soil Line (605 metre elevation)

Sample #	Soil Horizon	Sample Quality	Soil Colour
S-88-01	A and C	Poor	Black
S-88-02	A and C	Good	Brown
S-88-03	A	Poor	Black
S-88-04	A	Poor	Black
S-88-05	A and B	Poor	Black
S-88-06	A and B	Goođ	Brown
S-88-07	B	Good	Brown
S-88-08	В	Good	Brown
8-88-09	B	Good	Brown
S-88-10	B	Good	Reddish Brown
S-88-11	В	Good	Reddish Brown
S-88-12	B	Good	Reddish Brown
S-88-13	B	Good	Reddish Brown
S-88-14	B	Good	Reddish Brown
S-88-15	A and B	Good	Brown to Black

