

REPORT ON
GEOCHEMICAL SURVEYS
by
P.R. DeLancey, P.Eng.

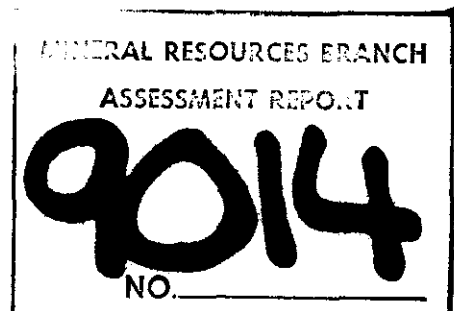
on the
RASPBERRY 1 MINERAL CLAIM

situated 4 km north of Rose Harbour,
Queen Charlotte Islands
in the
Skeena Mining Division

Lat. 52°10'N Long. 131°05'W
NTS 103B/3E

owned by
TEXASGULF CANADA LTD.

work by
TEXASGULF INC.



March 1981

Vancouver, B.C.

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INTRODUCTION

Location, Access and Terrain

The Raspberry 1 Claim is located 4 km north of Rose Harbour on southern Moresby Island, Queen Charlotte Islands (see Figures 1 & 2). Access to the area is by chartered helicopter from the town of Sandspit some 130 km northwest of the property.

The terrain is fairly rugged; elevations range from sea level to 550 metres. The Raspberry 1 Claim covers a broad drainage basin formed by Raspberry Creek and its tributaries. Most of the property is covered by coniferous rainforest; dwarfed spruce are common along ridges. Bedrock is best exposed along the main drainages.

Property History and Definition

Sutherland-Brown (B.C. Dept. of Mines Bulletin #54, 1968) lists a minor copper-zinc showing in the Raspberry Creek area. No other reference is made to this occurrence and no workings or significant mineralization were noted during the geochemical sampling programme.

On March 28, 1980, the Raspberry 1 Claim comprising 20 MGS units, was staked to cover anomalous arsenic and gold values obtained from the re-analyses of silt samples collected in 1970. The Claim was recorded on April 2, 1980 (record No. 2208). Work described in this report was undertaken by Texasgulf Inc., on behalf of its wholly owned subsidiary Texasgulf Canada Ltd., the current registered owner of the Claim.

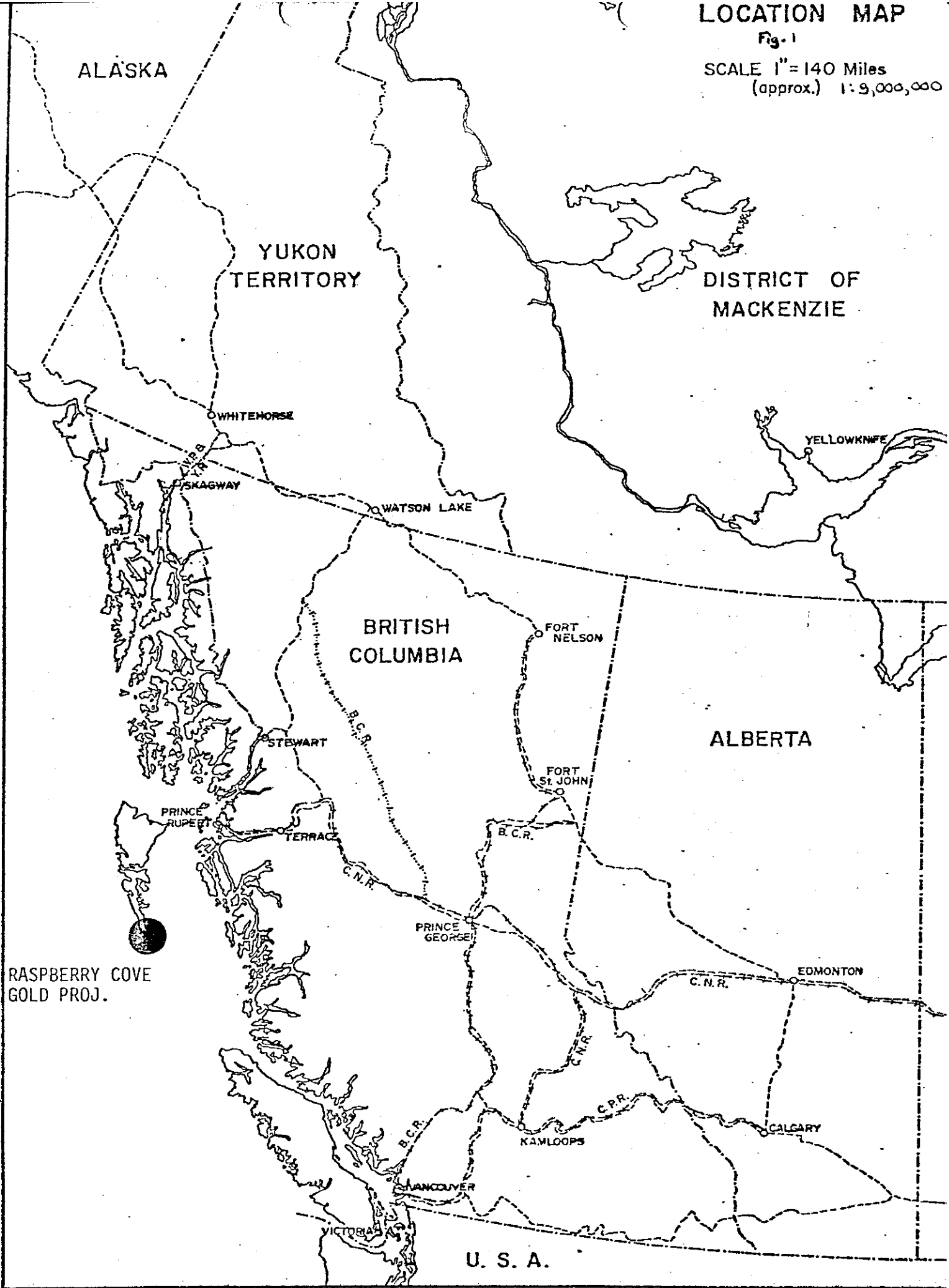
Summary of Work Completed

On November 2, 1980, P.R. DeLancey assisted by D.A. Bending, geologist, and two geochemical samplers, Frank Renaudat and George Nalivko, flew to the property via chartered helicopter from Sandspit. A total of 35 silt samples and 19 rock samples were collected. The sample locations were plotted on a 1"=1/2 mi. air photograph and later transferred to a 1:5,000 map (constructed from a 10x enlargement of a 1:50,000 topographic map).

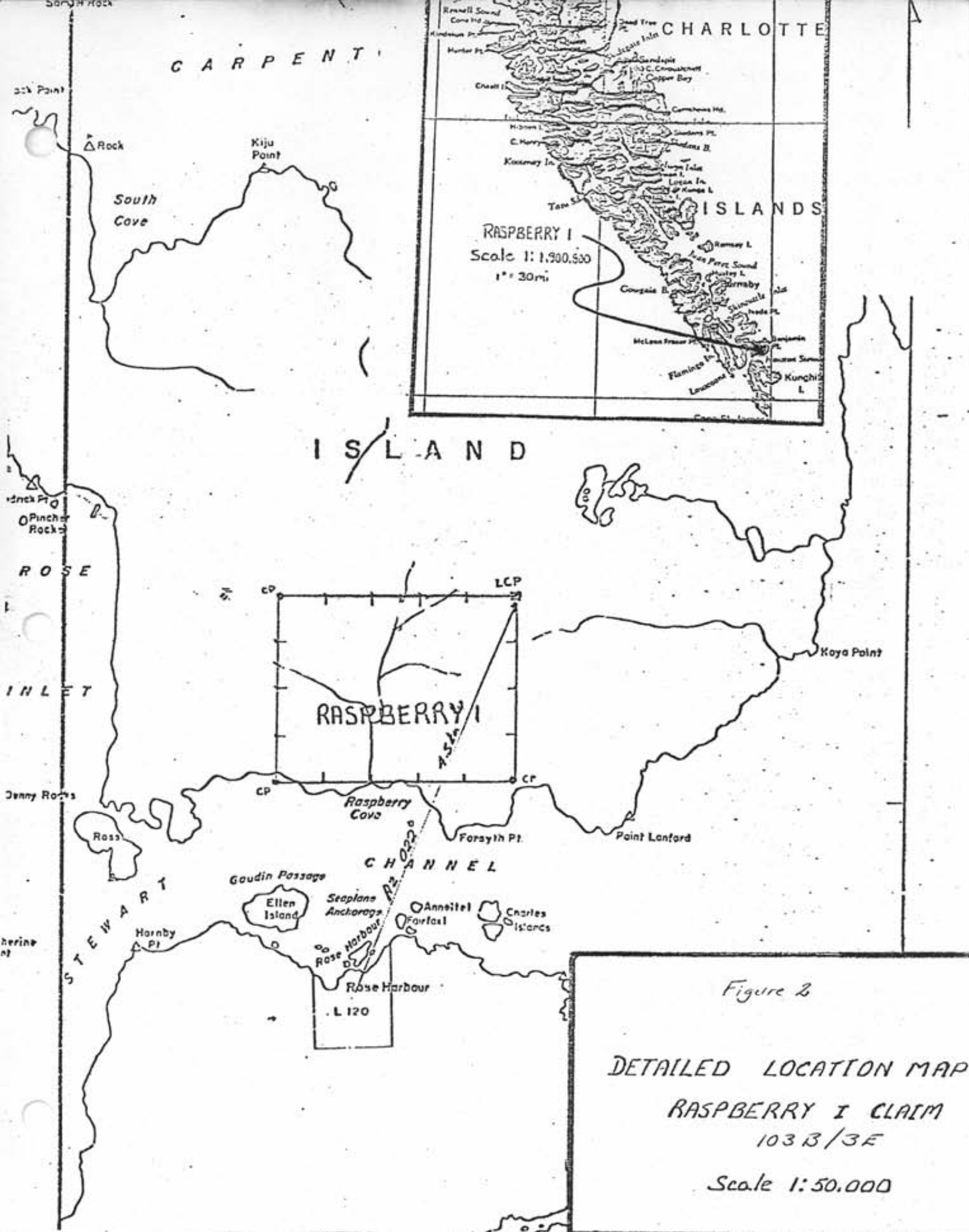
LOCATION MAP

Fig. 1

SCALE 1" = 140 Miles
(approx.) 1:9,000,000



RASPBERRY COVE
GOLD PROJ.



CARPENT

CHARLOTTE

ISLANDS

RASPBERRY I
Scale 1:1,900,000
1" = 30mi

ISLAND

RASPBERRY I

CHANNEL

STEWART

Figure 2

DETAILED LOCATION MAP

RASPBERRY I CLAIM

103 B/3E

Scale 1:50,000

Work Distribution

Most rock and silt samples collected for geochemical analyses were taken from the Raspberry 1 Claim. Eight silt samples were collected just outside the claim boundary, no assessment credit is filed for these samples.

GEOLOGY

Regional Setting

Regional mapping by Sutherland-Brown (B.C. Dept. of Mines Bulletin #54, 1968) indicated the area to be underlain by Triassic basic volcanic rocks of the Karmutsen Formation, flaggy black argillites and limestones of the Kunga Formation (Triassic to Jurassic age) and dyke-like intrusions associated with the post-tectonic Point Langford quartz monzonite stock.

Property Geology

No geological mapping of the Raspberry 1 Claim has been undertaken to date. cursory examination of exposures along the creeks indicates that where northwest trending feldspar porphyry dykes cut argillaceous rocks, these rocks are frequently bleached and silicified. The porphyry is locally altered and pyritic. Faulting is common.

GEOCHEMISTRY

General

Thirty-five silt samples and nineteen rock samples were collected. The silt samples were collected along south-flowing Raspberry Creek, a southwesterly-flowing branch creek, and from all tributaries entering these main drainages. Rock samples were generally taken in areas where the feldspar porphyry dykes cut argillaceous rocks. Silt samples were analyzed by Chemex Labs for Ag, As, Hg and Au; rock samples were analyzed for Ag, As and Au.

Analytical Technique

Both silt and rock samples were pulverized and screened to -100 mesh. A summary of the extraction and analytical techniques is as follows:

<u>Element</u>	<u>Extraction</u>	<u>Method of Analysis</u>
Ag	Perchloric-nitric acid digestion	Atomic Absorption
As	Perchloric-nitric acid digestion	Standard Hydroxide
Hg	Nitric acid digestion	Atomic Absorption
Au	Fire assay pre-concentration	Neutron Activation

Results

Results are presented in table form (Figure 3), and plotted on the 1:5,000 map (Figure 4). Because of the low population density, no statistical treatment of values was undertaken. Results of Texasgulf's sampling other areas of the Charlottes suggest that values greater than 0.2 ppm Ag, 100 ppm As, 500 ppb Hg and 10 ppb Au should be considered anomalous.

Interpretation and Evaluation of Results

The silt and rock sample values indicate that local areas are moderately anomalous in arsenic and gold. No particular geological features were noted in the rocks to account for these anomalous values. Further exploration will be necessary to properly evaluate the area.

P.R. D. Lancy

Figure 3.

RASPBERRY COVE (RASPBERRY 1)

	<u>Sample No.</u>	<u>Ag ppm</u>	<u>As ppm</u>	<u>Hg ppb</u>	<u>Au ppb (NAA)</u>
silts	95-B1-80	0.1	29	150	< 1
	95-B2-80	0.1	116	140	< 1
	95-B3-80	0.1	33	150	< 1
	95-B4-80	0.1	180	390	2
	95-B5-80	0.1	113	370	2
	95-B6-80	0.2	94	400	2
	95-B7-80	0.1	32	250	1
	95-B8-80	0.1	81	390	2
	95-B9-80	0.2	51	310	5
	95-B10-80	0.1	71	310	7
	95-B11-80	0.1	59	300	5
	95-B12-80	0.1	79	240	2
	95-B13-80	0.1	61	280	1
	95-B14-80	0.1	9	200	10
	95-B15-80	0.1	19	140	8
	95-B16-80	0.1	10	160	2
	95-B17-80	0.1	2	260	14
	95-B18-80	0.1	2	140	1
	95-R1-80	0.1	27	190	1
	95-R2-80	0.2	17	150	4
	95-R3-80	0.1	48	130	13
	95-R4-80	0.1	30	310	12
	95-R5-80	0.1	22	130	6
	95-R6-80	0.1	36	190	16
	95-R7-80	0.1	22	240	12
	95-R8-80	0.1	39	210	2
	95-R9-80	0.1	22	150	4
	95-R10-80	0.1	36	200	5

RASPBERRY COVE - Cont'd

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	<u>Sample No.</u>	<u>Ag ppm</u>	<u>As ppm</u>	<u>Hg ppb</u>	<u>Au ppb (NAA)</u>
silts	95-R11-80	0.2	45	120	6
	95-R12-80	0.2	16	150	6
	95-R13-80	0.1	11	120	14
	95-R14-80	0.2	36	350	7
	95-R15-80	0.1	63	250	3
	95-R16-80	0.1	85	320	8
	95-R17-80	0.2	36	240	12
rocks	95-B19-80	0.1	11		< 1
	95-B20-80	0.8	57		7
	95-B21-80	0.1	300		6
	95-B22-80	0.1	25		4
	95-B23-80	0.1	77		6
	95-B24-80	0.1	9		< 1
	95-B25-80	0.1	14		< 1
	95-B26-80	0.1	25		< 1
	95-B27-80	0.1	50		2
	95-B28-80	0.1	7		< 1
	95-B29-80	0.1	2		< 1
	95-B30-80	0.1	2		1
	1576	0.1	2		5
	1577	0.1	300		8
	1578	0.1	15		17
	1579	0.2	40		61
	1580	0.1	60		13
1581	0.1	2		2	
1582	0.1	5		< 1	

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APPENDIX

STATEMENT OF EXPENDITURES

APPENDIX

STATEMENT OF EXPENDITURES

RASPBERRY 1 CLAIM (20 units)

SALARIES & FRINGE BENEFITS - TEXASGULF INC.

P.R. DeLancey, P.Eng. Oct. 30-Nov. 4 1.5 days @ \$150	225.00	
D. Bending, geologist Oct. 30-Nov. 4 1.5 days @ \$120	180.00	
F. Renaudat Oct. 30-Nov. 4 1.5 days @ \$ 70	105.00	
G. Nalivko Oct. 30-Nov. 3 1.5 days @ \$ 70	<u>105.00</u>	
	615.00	615.00

ROOM & BOARD

4 man-days @ \$60 per day	240.00	240.00
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AIR FARES

proportioned	214.95	214.95
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HELICOPTER

Queen Charlotte Helicopters	1,012.80	1,012.80
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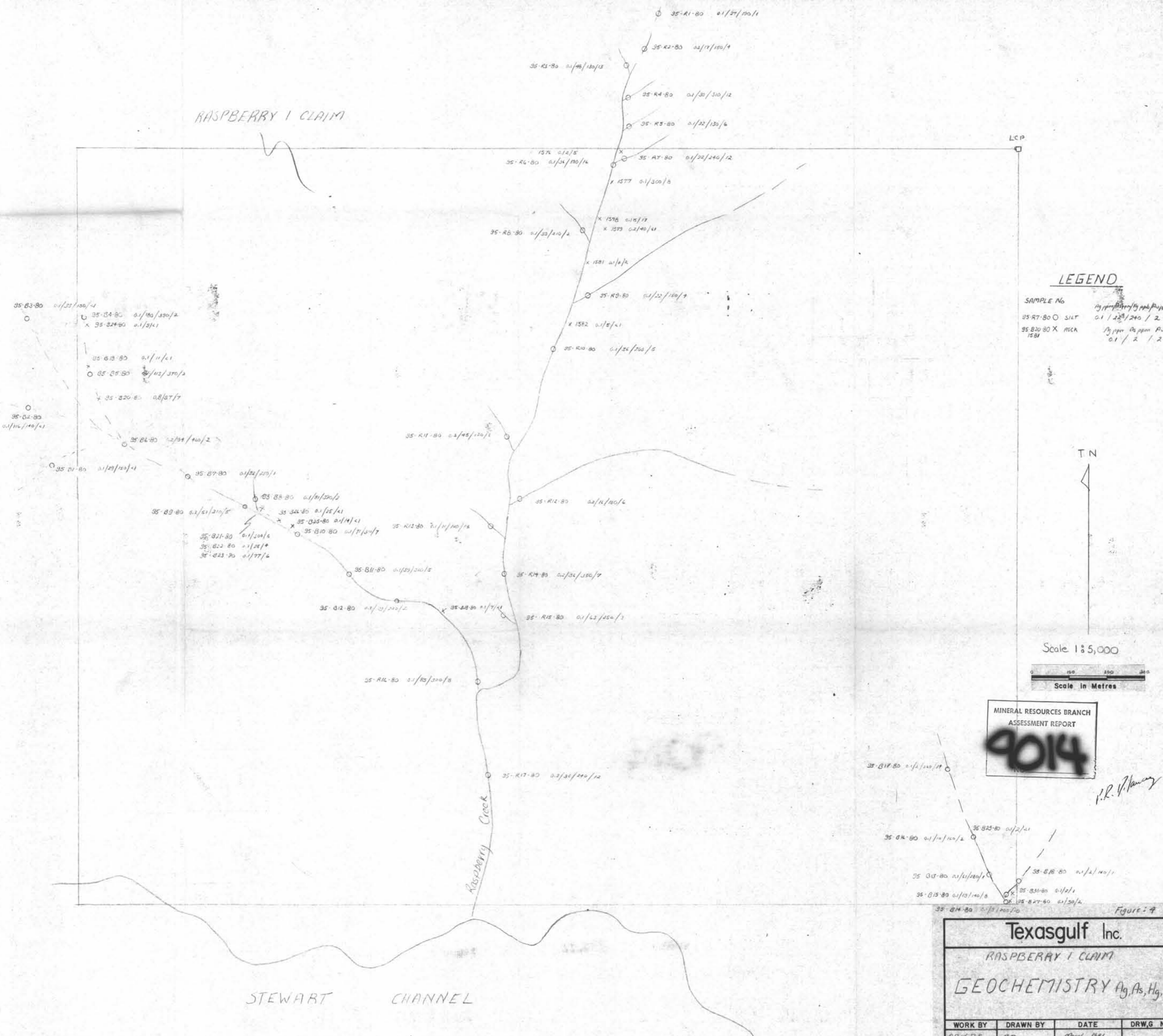
ANALYTICAL COSTS (Chemex Labs)

Geochemistry (silt) 27 samples @ \$14.15/sample	382.05	
Geochemistry (rock) 19 samples @ \$10.65/sample	<u>202.35</u>	
	584.40	584.40

REPORT PREPARATION

P.R. DeLancey, P.Eng. 1 day @ \$150	150.00	
Drafting, reproductions, etc.	<u>50.00</u>	
	200.00	<u>200.00</u>
		<u>\$2,867.15</u>

RASPBERRY 1 CLAIM



LEGEND

SAMPLE No	By paper No ppm Pp/pp
95-87-80 ○ SILT	0.1 / 2 ³ / 240 / 2
95-820-80 X ROCK	By paper No ppm Pp/pp
1581	0.1 / 2 / 2

T N

Scale 1:5,000



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9014

P.R. Hawley

Figure: 4

Texasgulf Inc.
RASPBERRY 1 CLAIM
GEOCHEMISTRY Ag, As, Hg, Au

WORK BY	DRAWN BY	DATE	DRWG NO.
RD 4 D.B.	P.D.	April, 1981	