

## G E O C H E M I C A L   L A B   R E P O R T

<u>EXTRACTION:</u>		HOT HNO <sub>3</sub>	HF, HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub>		
<u>METHOD:</u>		FLUORIMETRIC		FLUORIMETRIC	
		<u>WATER</u>	<u>SILT</u>		<u>SILT</u>
<u>FRACTION USED:</u>			-80	HMS	HMS
		U PPb	PPm	PPm	PPm
GL-76-46	1	0.3	18	86	225
"	2	0.4	10	29	110
"	3	0.4	8	86	280
"	4	0.3	8	72	190
"	5	0.2	5	90	290
"	6	0.1	5	90	280
"	7	0.2	12	16	110
"	35	0.5	9	40	70
"	36	0.7	25	55	70
"	38	1.6	24	45	85
"	01	0.5	3	56	220
"	02	0.5	6	89	278
"	03	0.7	22	26	205
"	04	0.6	7	95	380
"	05	1.0	19	96	90
"	025	2.7	19	75	180
"	026	2.1	18	43	110
"	027	1.5	14	5	12
"	007	0.5	10	40	220

TABLE 3

GEOCHEMICAL RESULTS OF FOLLOW-UP SURVEY

72 SAMPLE SITES

	THRESHOLD	MEAN	
WATER	1.2 PPb	0.5 PPb	
SILT -80	34.2 Ppm	12.6 Ppm	
SILT HMS	80.2 Ppm	27.6 Ppm	

  

AREA "A"	ANOMALOUS	>MEAN	≤ MEAN
Water PPb			X
SILT (- 80 Ppm (HMS Ppm)	X		X
AREA "B"			
Water PPb	X		
SILT (- 80 Ppm (HMS Ppm)	X		X
AREA "C"			
Water PPb	X		
SILT (- 80 Ppm (- HMS Ppm)		X X	

NATION RIVER - U446  
1977 PROGRAM

GAM 1 Analyzer  
External Sensor GSA-61  
Hewlett Packard Recorder  
Airborne Radiometrics  
Soil Sampling  
Silt Sampling  
Scintillometer Prospecting BGS 1SL Scintrex  
Rock type sampling  
Ph determination

Prospect northern half of the most westerly granitic stock and adjacent sediments as indicated on accompanying map with handheld BGS 1SL Scintrex scintillometer. Silt samples from all drainages originating in above area, as crossed along traverse at ~ 4500' elevation.

Soil samples at ~ 4500' elevation      B Horizon  
Minimum 500' spacing  
2 soil profiles  
Lab. treatment for both silt and soil samples  
-80 fraction  
Extraction - hot HNO<sub>3</sub>  
Uranium PPM Fluorimetric analysis  
Retain pulp and rejects

Helicopter Borne GAM 1 along flight lines following 4500', 4600', 4700'  
contours                      100' separation  
    35 m.p.h.

## Instrument settings:

Total count mode  
Time constant      1 second  
Chart speed        1 cm/30 sec.

AREA "A"

Traverse along 4500' contours  
Silt sampling all drainages and soil sampling and  
treatment as outlined on Sheet 1.

Prospect outcrops within and above Area "A" with handheld  
scintillometer.

Helicopter borne radiometric survey along contours 4200',  
4300', 4500: Similar method to that outlined on Sheet 1.

AREA "B"

Silt sampling, soil sampling, prospecting as outlined on  
Sheet 1 along contours 4800', 5000'.

Helicopter borne radiometric survey as outlined on Sheet 1  
along contours 4800', 5000'.

AREA "C"

Traverses along 2 north south lines 1000' apart near the  
eastern boundary of Area "C".

Silt sampling, soil sampling, prospecting as outlined in  
Sheet 1 on above traverses.

Helicopter borne radiometric survey as outlined on Sheet 1;  
following 2½ mile along north, south flightlines, 1000'  
spacing, from the eastern boundary of Area "C" to the  
height of land approximately 1 mile to the east, and from the  
Phillips main logging road on the north.

Depending on prospecting results field adjustments could be  
made to this program.

G. W. Laforme  
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