

MAR 19790015: SLAVE LAKE

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CASE

*C*OMPUTER *A*PPPLICATIONS AND *S*YSTEMS *E*NGINEERING

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MARLINE OIL CORPORATION


STATISTICAL EVALUATION
OF
GEOCHEMICAL SURVEY DATA

SLAVE LAKE

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15 January 1979

Luciano Martin, P.Eng.



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15 January 1979

STATISTICAL EVALUATION AND
COMPILATION OF GEOCHEMICAL DATA

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GUIDE TO THE STATISTICAL REPORT

1. LIST OF VALUES AND RANK.

The Sample Number is followed by the measured analytical value and % Rank for each element or parameter. For measured values below the detection limit, the assigned value is 1/2 of the detection limit. A - sign indicates that no analytical value is available. The number of samples with values for a given element is given at the end of the table.

The Rank specifies the position of the corresponding measured value in a sequence from the highest to the lowest values; it is given in % of the number of values for that element to the nearest integer. For example if there are 55 samples, all values below detection are ranked 100 (there are no lower values). The highest value is ranked 2 (1 sample is 2% of 55). Missing values are given 0 rank.

2. STATISTICAL SUMMARY TABLE.

For Element E with N values

a) AR (Arithmetic) MEAN: $MA = \bar{E} = \frac{1}{N} \sum E$

b) STD DEV (Standard Deviation): $SD = \sqrt{\frac{1}{N-1} \sum (E - \bar{E})^2}$

c) GEOM (Geometric) MEAN: $MG = \text{Exp} \left[\frac{1}{N} \sum \ln (E) \right]$

d) LN DEV (Deviation of the Logarithms):

$$LD = \text{Exp} \left[\sqrt{\frac{1}{N-1} \sum [(\ln(E) - \ln(MG))^2]} \right]$$

In the formulas ln indicates the Natural Logarithm, Exp the exponential function.

The Geometric Mean and Logarithmic Deviation are expressed in the same measuring units as the corresponding arithmetic parameters.

- e) The RANGE gives the Minimum and Maximum values
- f) SMPLS is the total number of samples with values for the element (including below detection)
- g) < DET LIM indicates how many of the sample values are below the detection limit.

3. DEVIATIONS FROM THE MEANS.

The table gives the VALUE of the MEAN and at 1 and 2 deviations below and above the mean. The % indicates the RANK of such value, or what percentage of the measured values would be above it. The deviations are given for both the Arithmetic (ARITH) and Logarithmic (LOG) parameters. All Values are expressed in the same measuring units.

Example. Given MA = 10.0 ppm
 SD = 15.0 ppm
 MG = 7.0 ln (MG) = 1.95
 LD = 2.0 ln (LD) = 0.69

For Mean + 2 DEV

ARITH - VALUE is $10 + 2 \times 15 = 40$ ppm

LOG - VALUE is $\text{Exp} \left[\ln (\text{MG}) + 2 \times \ln (\text{LD}) \right] = \text{Exp} (3.33) = 28$ ppm

The LOG value could also be computed directly in true units:

$$V = \text{MG} \times (\text{LD})^2 = 7 \times 4 = 28$$

4. HISTOGRAM AND CUMULATIVE FREQUENCY.

The INTERVAL limits values, the number of SAMPLES in each interval and the Cumulative Frequency are printed. The scaled Bar Diagram (****) illustrate the number of samples in the interval.

The + plots the Cumulative Frequency Curve, rising to 100% at the right. The Number of Samples, the number below the detection limit and the Minimum and Maximum values are shown in the last line.

5. CORRELATION COEFFICIENTS.

The table consists of cells for pairs of elements. In each cell the first value is the Linear Correlation Coefficient for the pair. The second line is the range of the level of significance; it indicates the % probability that the correlation is due to causes other than random measuring errors and is computed by a modified Student-t test at the 50, 60, 80, 90, 95 and 99% levels.

A 0-50 range means that there is better than 50% chance that the correlation is caused by random errors.

A 99-** range means that there is less than 1% probability that errors cause the correlation, or that there is better than 99% certainty that the coefficient reflects the true behaviour of the data.

The third value in the cell indicates the number of samples in the pair, including values below detection.

For N pairs of elements X and Y with means \bar{X} and \bar{Y} and deviations sX and sY, the correlation coefficient R is

$$R = \frac{\sum XY - N \cdot \bar{X} \bar{Y}}{N \cdot sX \cdot sY}$$

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

STATISTICAL SUMMARY OF ALL SAMPLES

ELEMENT	AR.	MEAN	STD DEV	GEOM MEAN	LN DEV	RANGE		SMPLS	<DET LIM
						MIN	MAX		
U-S		2.698	3.056	1.626	2.937	0.100	24.00	239	8
CU		8.604	4.781	7.622	1.617	3.000	36.00	144	0
PB		7.824	6.243	5.934	2.242	1.000	70.00	239	0
ZN		66.795	36.201	59.325	1.630	16.000	340.00	249	0
NI		17.557	8.150	16.100	1.512	4.000	84.00	239	0
MO		4.563	2.382	3.980	1.738	0.500	19.00	239	1
AG		0.868	0.530	0.720	1.911	0.100	3.50	239	7
PH		7.887	0.441	7.875	1.057	6.700	9.40	235	0
U-W		1.192	2.131	0.476	3.714	0.125	18.60	241	93
COND		1049.715	3073.880	442.832	2.430	100.000	24000.00	246	0

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

DEVIATIONS FROM MEANS : VALUES AND % FROM TOP OF GROUP

ELEMENT	MEAN-2 DEV VALUE %	MEAN-1 DEV VALUE %	MEAN VALUE %	MEAN+1 DEV VALUE %	MEAN+2 DEV VALUE %	
U-S	-3.41 100	-0.36 100	2.70 31	5.75 11	8.81 5	ARITH
U-S	0.19 100	0.55 85	1.63 51	4.78 13	14.03 1	LOG
CU	-0.96 100	3.82 96	8.60 40	13.39 13	18.17 5	ARITH
CU	2.91 100	4.71 87	7.62 49	12.33 15	19.93 3	LOG
PB	-4.66 100	1.58 93	7.82 49	14.07 8	20.31 1	ARITH
PB	1.18 93	2.65 79	5.93 68	13.31 12	29.84 1	LOG
ZN	-5.61 100	30.59 90	66.80 40	103.00 11	139.20 2	ARITH
ZN	22.32 95	36.39 84	59.32 54	96.72 13	157.68 2	LOG
NI	1.26 100	9.41 91	17.56 44	25.71 12	33.86 4	ARITH
NI	7.04 97	10.65 85	16.10 48	24.34 14	36.81 2	LOG
MO	-0.20 100	2.18 81	4.56 51	6.95 16	9.33 3	ARITH
MO	1.32 95	2.29 81	3.98 67	6.92 16	12.02 2	LOG
AG	-0.19 100	0.34 93	0.87 48	1.40 20	1.93 5	ARITH
AG	0.20 100	0.38 93	0.72 49	1.38 20	2.63 1	LOG
PH	7.00 98	7.45 86	7.89 54	8.33 14	8.77 3	ARITH
PH	7.05 98	7.45 86	7.87 54	8.32 14	8.80 3	LOG
U-W	-3.07 100	-0.94 100	1.19 31	3.32 7	5.45 3	ARITH
U-W	0.03 100	0.13 100	0.48 46	1.77 21	6.57 2	LOG
COND	-5098.04 100	-2024.16 100	1049.72 8	4123.59 4	7197.47 4	ARITH
COND	75.01 100	182.25 93	442.83 34	1075.98 8	2614.41 4	LOG

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

CORRELATION COEFFICIENTS, LEVEL OF SIGNIFICANCE, NUMBER OF SAMPLES

	U-S	CU	PB	ZN	NI	MO	AG	PH	U-W	COND
U-S	***** **-** *****	0.41 99-** 151	0.03 0-50 246	0.26 99-** 246	0.19 99-** 246	-0.03 0-50 246	-0.12 90-95 246	0.09 80-90 226	0.03 0-50 225	-0.32 99-** 231
CU	0.41 99-** 151	***** **-** *****	0.14 90-95 151	0.70 99-** 151	0.53 99-** 151	0.06 50-60 151	-0.17 95-99 151	0.18 95-99 137	-0.15 90-95 130	-0.04 0-50 137
PB	0.03 0-50 246	0.14 90-95 151	***** **-** *****	-0.11 90-95 246	0.04 0-50 246	0.26 99-** 246	-0.07 60-80 246	0.32 99-** 226	0.36 99-** 225	0.00 0-50 231
ZN	0.26 99-** 246	0.70 99-** 151	-0.11 90-95 246	***** **-** *****	0.49 99-** 246	0.07 60-80 246	-0.22 99-** 246	0.06 60-80 226	-0.17 95-99 225	-0.08 60-80 231
NI	0.19 99-** 246	0.53 99-** 151	0.04 0-50 246	0.49 99-** 246	***** **-** *****	0.15 95-99 246	0.06 60-80 246	0.00 80-90 226	-0.04 0-50 225	0.20 99-** 231
MO	-0.03 0-50 246	0.06 50-60 151	0.26 99-** 246	0.07 60-80 246	0.15 95-99 246	***** **-** *****	0.22 99-** 246	0.14 95-99 226	0.12 90-95 225	-0.05 50-60 231
AG	-0.12 90-95 246	-0.17 95-99 151	-0.07 60-80 246	-0.22 99-** 246	0.06 60-80 246	0.22 99-** 246	***** **-** *****	-0.21 99-** 226	-0.08 60-80 225	0.41 99-** 231
PH	0.09 80-90 226	0.18 95-99 137	0.32 99-** 226	0.06 60-80 226	0.09 80-90 226	0.14 95-99 226	-0.21 99-** 226	***** **-** *****	0.07 60-80 233	-0.23 99-** 240
U-W	0.03 0-50 225	-0.15 90-95 130	0.36 99-** 225	-0.17 95-99 225	-0.04 0-50 225	0.12 90-95 225	-0.08 60-80 225	0.07 60-80 233	***** **-** *****	0.09 80-90 244
COND	-0.32 99-** 231	-0.04 0-50 137	0.00 0-50 231	-0.08 60-80 231	0.20 99-** 231	-0.05 50-60 231	0.41 99-** 231	-0.23 99-** 240	0.09 80-90 244	***** **-** *****

EXPLANATION-- IN THE CELL FOR EACH PAIR

R = LINEAR CORRELATION COEFFICIENT
 LEVEL = % CERTAINTY THAT R IS NOT DUE TO ERRORS
 (% INTERVALS: 0 50 60 80 90 95 99 **)
 NUMBER=NUMBER OF SAMPLES PAIRED TO COMPUTE R

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

U-S INTERV PPM	SAMPLES	CUM FR %	
0.20	8	3.35	***** +
0.20	0	3.35	+
0.40	12	8.37	***** +
0.60	15	14.64	***** +
0.80	13	20.08	***** +
1.00	5	22.18	***** +
1.20	25	32.64	***** +
1.40	15	38.91	***** +
1.60	18	46.44	***** +
1.80	7	49.37	***** +
2.00	14	55.23	***** +
2.20	9	59.00	***** +
2.50	16	65.69	***** +
2.80	9	69.46	***** +
3.20	8	72.80	***** +
3.50	12	77.82	***** +
4.00	6	80.33	***** +
4.50	10	84.52	***** +
5.00	7	87.45	***** +
5.60	3	88.70	*** +
6.30	3	89.96	*** +
7.10	4	91.63	*** +
8.00	6	94.14	***** +
9.00	3	95.40	*** +
10.00	2	96.23	** +
11.20	2	97.07	** +
5999.00	7	97.07	***** +
		100.00	

TOTAL SAMPLES= 239 VALUES < DETECTION = 8 RANGE= 0.100 TO 24.00

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

CU INTERV PPM	SAMPLES	CUM FR %			
	0	0.0			
1.00	0	0.0			
3.00	0	0.0			
4.00	6	4.17	*****		
5.00	13	13.19	+ *****		
6.00	19	26.39	+ *****		
7.00	16	37.50	+ *****		
8.00	19	50.69	+ *****		
9.00	13	59.72	+ *****		
10.00	16	70.83	+ *****		
11.00	11	78.47	+ *****		
12.00	3	80.56	****		
14.00	9	86.81	*****		
16.00	7	91.67	*****		
18.00	3	93.75	****		
20.00	4	96.53	*****		
22.00	1	97.22	*		
25.00	3	99.31	****		
28.00	0	99.31			
32.00	0	99.31			
35.00	0	99.31			
40.00	1	100.00	*		
45.00	0	100.00			
50.00	0	100.00			
56.00	0	100.00			
63.00	0	100.00			
71.00	0	100.00			
9999.00	0	100.00			

TOTAL SAMPLES= 144 VALUES < DETECTION = 0 RANGE= 3.000 TO 36.00

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

PB INTERV PPM	SAMPLES	CUM FR %	
	0		
1.00	0	0.0	
1.00	0	0.0	
2.00	17	7.11	*****
3.00	33	20.92	+ *****
4.00	0	20.92	+ *****
5.00	22	30.13	+ *****
6.00	5	32.22	**** *****
7.00	34	46.44	+ *****
8.00	11	51.05	***** *****
9.00	31	64.02	+ *****
10.00	7	66.95	***** *****
11.00	22	76.15	***** *****
12.00	7	79.08	***** *****
14.00	22	88.28	***** *****
16.00	10	92.47	***** *****
18.00	11	97.07	***** *****
20.00	2	97.91	** *****
22.00	3	99.16	*** *****
25.00	0	99.16	
28.00	0	99.16	
32.00	0	99.16	
35.00	1	99.58	*
40.00	0	99.58	
45.00	0	99.58	
50.00	0	99.58	
56.00	0	99.58	
9999.00	1	100.00	*

TOTAL SAMPLES= 239 VALUES < DETECTION = 0 RANGE= 1.000 TO 70.00

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

ZN INTERV PPM	SAMPLES	CUM FR %			
1.00	0	0.0			
16.00	0	0.0			
18.00	1	0.40	*		
20.00	2	1.20	**		
22.00	5	3.21	****		
25.00	6	5.62	*****		
28.00	4	7.23	***		
32.00	8	10.44	*****		
35.00	9	14.06	*****		
40.00	10	18.07	*****		
45.00	17	24.90	*****		
50.00	11	29.32	*****		
56.00	22	38.15	*****		
63.00	34	51.81	*****		
71.00	34	65.46	*****		
80.00	20	73.49	*****		
90.00	17	80.32	*****		
100.00	17	87.15	*****		
112.00	11	91.57	*****		
125.00	9	95.18	*****		
140.00	6	97.59	*****		
160.00	3	98.80	**		
180.00	1	99.20	*		
200.00	0	99.20			
225.00	0	99.20			
250.00	0	99.20			
9999.00	2	100.00	**		

TOTAL SAMPLES= 249 VALUES < DETECTION = 0 RANGE= 16.000 TO 340.00

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

NI INTERV PPM	SAMPLES	CUM FR %			
	0	0.0			
1.00	0	0.0			
4.00	1	0.42	*		
5.00	1	0.84	*		
6.00	3	2.09	***		
7.00	1	2.51	+		
8.00	10	6.69	*****		
9.00	6	9.21	*****		
10.00	13	14.64	*****		
11.00	9	18.41	*****		
12.00	32	31.80	*****		
14.00	26	42.68	*****		
16.00	32	56.07	*****		
18.00	25	66.53	*****		
20.00	27	77.82	*****		
22.00	20	86.19	*****		
25.00	8	89.54	*****		
28.00	14	95.40	*****		
32.00	7	98.33	**		
35.00	2	99.16	*		
40.00	0	99.16			
45.00	0	99.16			
50.00	1	99.58	*		
56.00	0	99.58			
63.00	0	99.58			
71.00	0	99.58			
80.00	1	100.00	*		

9999.00 100.00
 TOTAL SAMPLES = 239 VALUES < DETECTION = 0 RANGE = 4.000 TO 84.00

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

MO INTERV PPM	SAMPLES	CUM FR %		
	1		*	
1.00	0	0.42		
1.00	11	0.42	*****	
2.00	34	5.02	+ *****	
3.00	33	19.25	+ *****	
4.00	38	33.05	+ *****	
5.00	69	48.95	+ *****	
6.00	15	77.82	+ *****	
7.00	17	84.10	+ *****	
8.00	9	91.21	+ *****	
9.00	5	94.98	+ *****	
10.00	3	97.07	+ *****	
11.00	0	98.33		+
12.00	2	98.33	**	+
14.00	1	99.16	*	+
16.00	0	99.58		+
18.00	1	99.58	*	+
20.00	0	100.00		+
22.00	0	100.00		+
25.00	0	100.00		+
28.00	0	100.00		+
32.00	0	100.00		+
35.00	0	100.00		+
40.00	0	100.00		+
45.00	0	100.00		+
50.00	0	100.00		+
56.00	0	100.00		+
59999.00	0	100.00		+

TOTAL SAMPLES= 239 VALUES < DETECTION = 1 RANGE= 0.500 TO 19.00

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

AG INTERV PPM	SAMPLES	CUM FR %		
	7		*****	
0.20		2.93	+	
	0			
0.20		2.93	+	
	8		*****	
0.30		6.28	+	
	1		*	
0.40		6.69	+	
	13		*****	
0.50		12.13	+	
	76		*****	
0.60		43.93	+	
	12		*****	
0.70		48.95	+	
	5		****	
0.80		51.05	+	
	3		***	
0.90		52.30	+	
	0			
1.00		52.30	+	
	65		*****	
1.10		79.50		+
	0			
1.20		79.50		+
	2		**	
1.40		80.33		+
	32		*****	
1.60		93.72		+
	2		**	
1.80		94.56		+
	1		*	
2.00		94.98		+
	7		*****	
2.20		97.91		+
	0			
2.50		97.91		+
	3		***	
2.80		99.16		+
	1		*	
3.20		99.58		+
	0			
3.50		99.58		+
	1		*	
4.00		100.00		+
	0			
4.50		100.00		+
	0			
5.00		100.00		+
	0			
5.60		100.00		+
	0			
6.30		100.00		+
	0			
9999.00		100.00		+

TOTAL SAMPLES= 239 VALUES < DETECTION = 7 RANGE= 0.100 TO 3.50

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

PH INTERV	SAMPLES	CUM FR %			
	0	0.0			
5.00	0	0.0			
6.50	4	1.70	***		
7.00	0	1.70			
7.10	5	3.83	****		
7.20	8	7.23	+ *****		
7.30	5	9.36	+ ****		
7.40	16	16.17	+ *****		
7.50	17	23.40	+ *****		
7.60	23	33.19	+ *****		
7.70	22	42.55	+ *****		
7.80	10	46.81	+ *****		
7.90	21	55.74	+ *****		
8.00	23	65.53	+ *****		
8.10	25	76.17	+ *****		
8.20	13	81.70	+ *****		
8.30	11	86.38	+ *****		
8.40	13	91.91	+ *****		
8.50	7	94.89	+ *****		
8.60	3	96.17	+ ***		
8.70	2	97.02	+ **		
8.80	0	97.02			
8.90	1	97.45	+ *		
9.00	3	98.72	+ ***		
9.20	2	99.57	+ **		
9.40	1	100.00	+ *		
9.60	0	100.00			

99999.00 100.00
 TOTAL SAMPLES = 235 VALUES < DETECTION = 0 RANGE = 6.700 TO 9.40

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY
 HISTOGRAM AND CUMULATIVE FREQUENCY

U-W INTERV PPB	SAMPLES	CUM FR %	
0.26	93	38.59	*****
0.32	21	47.30	*****
0.40	9	51.04	*****
0.50	8	54.36	*****
0.60	4	56.02	***
0.70	19	63.90	*****
0.80	0	63.90	
0.90	1	64.32	*
1.00	1	64.73	*
1.10	11	69.29	*****
1.20	0	69.29	
1.40	18	76.76	*****
1.60	0	76.76	
1.80	6	79.25	*****
2.00	0	79.25	
2.25	14	85.06	*****
2.50	3	86.31	**
2.80	4	87.97	***
3.20	3	89.21	**
3.60	8	92.53	*****
4.00	3	93.78	**
4.50	4	95.44	***
5.00	0	95.44	
6.30	5	97.51	****
8.00	1	97.93	*
10.00	1	98.34	*
9999.00	4	100.00	***

TOTAL SAMPLES = 241 VALUES < DETECTION = 93 RANGE = 0.125 TO 18.60

MARLINE SLAVE LAKE GEOCHEMICAL SURVEY 1978
 HISTOGRAM AND CUMULATIVE FREQUENCY

COND INTERV MMHO	SAMPLES	CUM FR %			
	0	0.0			
1.00	0	0.0			
100.00	2	0.81	**		
110.00	1	1.22	*		
120.00	5	3.25	****		
140.00	1	3.66	+		
160.00	5	5.69	****		
180.00	2	6.50	**		
200.00	6	8.94	*****		
220.00	14	14.63	*****		
250.00	17	21.54	*****		
280.00	23	30.89	*****		
320.00	36	45.53	*****		
360.00	21	54.07	*****		
400.00	29	65.85	*****		
450.00	15	71.95	*****		
500.00	17	78.86	*****		
560.00	14	84.55	*****		
650.00	12	89.43	*****		
800.00	6	91.87	*****		
1000.00	3	93.09	**		
1250.00	4	94.72	***		
1600.00	1	95.12	*		
2000.00	1	95.53	*		
2500.00	0	95.53			
2800.00	0	95.53			
3150.00	11	95.53	*****		
9999.00		100.00			

TOTAL SAMPLES = 246 VALUES < DETECTION = 0 RANGE = 100.000 TO 24000.00

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TOP

SAMPLE SED	NUM WTR	U-SED PPM	RNK %	CU PPM	RNK %	PB PPM	RNK %	ZN PPM	RNK %	NI PPM	RNK %	MO PPM	RNK %	AG PPB	RNK %	PH %	U-WAT PPB	RNK %	COND UMHO	RNK %	
1	1	1.4	61	10	29	10	33	158	2	9	93	19	0	0.5	88	7.60	77	0.13	100	100	100
2	2	1.4	61	20	3	32	1	36	86	10	91	3	81	0.3	94	7.60	77	0.30	59	210	93
3	3	1.9	47	3	100	7	54	62	51	10	91	8	9	0.4	93	7.30	93	0.60	44	120	99
4	4	1.8	51	6	74	8	49	88	21	10	91	7	16	0.2	97	8.10	34	0.60	44	280	78
5	5	1.0	78	4	96	8	49	82	24	52	1	5	51	0.5	88	7.90	53	2.00	21	220	91
6	6	1.1	74	4	96	8	49	74	31	84	0	7	16	1.0	48	8.30	18	5.30	4	330	65
7	7	1.1	74	9	40	7	54	88	21	19	36	9	5	0.5	88	8.60	5	2.60	14	240	87
8	8	1.4	61	6	74	8	49	60	54	17	48	10	3	0.5	88	8.00	44	0.13	100	410	44
9	9	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.40	14	0.30	59	320	69
10	10	1.8	54	3	100	16	8	30	92	10	91	5	51	1.5	20	8.60	5	1.30	31	480	31
11	11	1.8	51	6	74	12	21	46	75	18	44	9	5	0.7	51	8.20	24	1.60	23	580	19
12	12	1.8	51	5	87	12	21	48	73	13	74	7	16	1.0	48	8.10	34	10.00	2	410	44
13	13	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.40	91	18.60	0	220	91
14	14	1.4	61	5	87	5	70	52	67	12	82	6	22	0.5	88	8.10	34	0.60	44	310	71
15	15	1.0	78	4	96	12	21	30	92	13	74	8	9	1.0	48	8.00	44	1.30	31	390	50
16	16	1.1	74	3	100	16	8	16	100	14	68	13	2	1.6	6	8.10	34	1.60	23	350	60
17	17	1.1	74	3	100	12	21	28	93	23	17	6	22	1.0	48	8.20	24	3.60	7	360	54
18	18	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.90	3	1.30	31	410	44
19	19	2.2	41	4	96	12	21	22	97	11	85	9	5	1.0	48	8.30	18	1.30	31	510	26
20	20	0.5	90	4	96	10	33	30	92	12	82	5	51	1.0	48	8.10	34	1.00	35	290	77
21	21	1.4	61	5	87	12	21	34	87	9	93	4	67	1.0	48	8.40	14	0.60	44	340	62
22	22	0.5	90	4	96	14	12	22	97	10	91	6	22	1.5	20	8.10	34	1.00	35	320	69
23	23	0.8	80	4	96	14	12	24	95	9	93	7	16	1.3	20	8.00	44	2.00	21	330	65
24	24	1.0	78	5	87	10	33	32	90	10	91	5	51	1.0	48	8.00	44	0.13	100	350	60
25	25	2.1	44	6	74	12	21	32	90	11	85	8	9	1.2	21	8.10	34	0.13	100	320	69
26	26	6.7	9	12	19	13	13	64	48	21	23	10	3	0.6	56	8.50	8	1.30	31	420	40
27	27	1.1	74	4	96	12	21	26	94	9	93	10	3	1.0	48	8.20	24	0.60	44	310	71
28	28	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.10	34	0.60	44	410	44
29	29	5.7	11	7	63	8	49	40	82	17	48	5	51	0.5	88	8.40	14	1.00	35	420	40
30	30	2.2	41	7	63	14	12	48	73	13	74	7	16	1.0	48	7.90	53	-0.01	0	390	50
32	32	2.2	41	16	8	10	33	60	54	28	10	8	9	0.5	88	8.30	18	0.30	59	350	60
33	33	0.8	80	6	74	5	70	38	84	7	98	7	16	0.5	88	7.40	91	1.30	31	170	96
35	35	1.9	47	7	63	8	49	78	27	17	48	6	22	0.5	88	8.40	14	1.00	35	370	54
36	36	3.4	25	12	19	12	21	130	4	22	22	8	9	0.5	88	8.00	44	2.30	15	350	60
37	37	1.0	78	14	13	14	12	340	0	20	33	13	2	0.7	51	7.90	53	1.30	31	250	85
39	39	2.2	41	13	15	14	12	112	8	25	14	7	16	0.7	51	8.10	34	0.30	59	250	85
40	40	1.3	66	9	40	10	33	70	37	19	36	2	95	0.5	88	8.10	34	1.60	23	330	65
41	41	2.1	44	6	74	8	49	56	62	18	44	2	95	0.5	88	8.00	44	1.60	23	300	74
42	42	2.1	44	18	6	12	21	160	1	22	22	14	1	0.8	49	7.80	57	1.30	31	250	85
43	43	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.40	14	2.00	21	240	87
44	44	2.2	41	7	63	9	36	80	27	13	74	5	51	0.5	88	8.00	44	0.60	44	130	98
45	45	1.0	78	7	63	10	33	84	24	16	57	5	51	0.5	88	8.00	44	1.00	35	470	31
46	46	0.8	80	9	40	11	24	68	40	13	74	9	5	0.6	56	8.10	34	0.13	100	260	82
47	47	1.0	78	7	63	8	49	72	34	12	82	3	81	0.5	88	7.90	53	1.00	35	390	50
48	48	1.3	66	6	74	8	49	90	20	8	97	2	95	0.5	88	7.80	57	1.30	31	330	65
49	49	0.5	90	4	96	6	68	46	75	8	97	3	81	0.5	88	7.70	67	2.60	14	360	54
50	50	1.1	74	8	49	12	21	50	71	16	57	4	67	0.1	100	7.70	67	2.00	21	520	25
51	51	3.0	29	11	22	14	12	62	51	18	44	4	67	1.0	48	8.40	14	0.13	100	440	36
52	52	0.5	90	6	74	10	33	58	57	11	85	3	81	0.5	88	8.00	44	0.30	59	390	50
53	53	0.5	90	5	87	6	68	56	62	12	82	4	67	0.5	88	7.80	57	0.13	100	430	38

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TOP

SAMP- SED	NUM WTR	U-SED PPM	RNK %	CU PPM	RNK %	PB PPM	RNK %	ZN PPM	RNK %	NI PPM	RNK %	MO PPM	RNK %	AG PPB	RNK %	PH %	U-WAT PPB	RNK %	COND UMHO	RNK %	
54	54	1.4	61	8	49	8	49	68	40	14	68	3	81	0.5	88	8.40	14	0.60	44	370	54
55	55	0.6	85	6	74	8	49	60	54	11	85	5	51	0.5	88	8.20	24	0.60	44	410	44
55	56	0.6	85	7	63	6	68	56	62	10	91	3	81	0.4	93	7.20	96	0.30	59	100	100
57	57	1.1	74	7	63	8	49	50	71	14	68	8	9	0.5	88	8.40	14	0.13	100	440	36
59	59	0.8	80	7	63	7	54	60	54	15	60	5	51	0.5	88	8.70	4	0.13	100	420	40
60	60	0.6	85	8	49	6	68	52	67	11	85	5	51	0.4	93	7.40	91	0.13	100	300	74
61	61	1.8	51	9	40	7	54	74	31	15	60	5	51	0.5	88	7.90	53	3.30	11	590	18
62	62	1.3	66	7	63	6	68	62	51	12	82	4	67	0.4	93	7.90	53	1.30	31	390	50
63	63	1.4	61	10	29	7	54	78	27	32	5	5	51	0.5	88	7.90	53	3.00	12	290	77
64	64	1.3	66	9	40	6	68	44	77	13	74	5	51	0.5	88	7.90	53	1.60	23	430	38
65	65	0.6	85	14	13	16	8	64	48	28	10	7	16	1.5	20	7.70	67	11.00	1	17000	2
66	66	2.4	36	12	19	8	49	52	67	13	74	4	67	0.5	88	7.80	57	0.13	100	300	74
67	67	0.5	90	6	74	6	68	48	73	13	74	2	95	0.5	88	7.90	53	2.00	21	530	24
69	68	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.10	34	2.60	14	400	46
69	69	2.9	30	36	1	12	21	130	4	26	12	7	16	1.0	48	8.10	34	2.00	21	410	44
73	73	2.1	44	14	13	9	36	62	51	17	48	4	67	0.5	88	8.30	18	-0.01	0	380	52
74	74	1.4	61	9	40	12	21	58	57	13	74	5	51	1.0	48	7.60	77	1.60	23	300	74
75	75	0.6	85	6	74	10	33	60	54	8	97	5	51	1.0	48	7.70	67	1.30	31	720	13
76	76	2.6	34	8	49	10	33	58	57	11	85	3	81	0.7	51	8.20	24	2.00	21	670	15
77	77	0.5	90	6	74	16	8	38	84	11	85	5	51	2.0	5	7.70	67	1.30	31	640	16
79	79	12.3	2	22	3	15	8	134	3	38	2	7	16	1.5	20	7.80	57	0.50	46	760	11
80	80	3.7	22	16	8	14	12	68	40	24	16	5	51	1.0	48	8.40	14	3.30	11	790	11
81	81	1.3	66	5	87	20	2	18	100	13	74	7	16	1.7	6	7.60	77	3.30	11	630	16
82	82	1.4	61	12	19	11	24	54	64	25	14	7	16	0.6	56	8.40	14	4.00	6	500	28
83	83	4.5	15	10	29	8	49	46	75	10	91	4	67	1.0	48	7.70	67	-0.01	0	430	38
84	84	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.20	96	-0.01	0	310	71
85	85	4.2	19	10	29	16	8	36	86	18	44	6	22	1.5	20	8.00	44	3.60	7	960	9
85	86	2.1	44	6	74	16	8	26	94	12	82	6	22	1.8	5	8.10	34	0.30	59	240	87
87	87	4.6	15	5	87	10	33	36	86	10	91	4	67	1.0	48	8.10	34	3.30	11	1070	8
88	88	3.2	27	7	63	12	21	40	82	14	68	5	51	2.0	5	7.10	98	5.00	5	410	44
89	89	3.0	29	5	87	16	8	38	84	11	85	6	22	1.5	20	8.20	24	3.00	12	1080	8
90	90	4.0	20	16	8	8	49	88	21	6	99	5	51	0.6	56	7.50	84	-0.01	0	290	77
91	91	0.2	97	6	74	6	68	50	71	4	100	5	51	0.5	88	8.00	44	0.60	44	330	65
92	92	0.5	90	5	87	18	3	20	99	10	91	5	51	1.5	20	8.10	34	4.00	6	1290	7
93	93	0.1	100	5	87	16	8	24	95	11	85	8	9	1.5	20	8.20	24	2.30	15	710	13
94	94	0.5	90	5	87	11	24	44	77	8	97	7	16	1.0	48	7.10	98	2.30	15	600	17
95	95	1.0	78	5	87	18	3	22	97	12	82	8	9	1.5	20	7.40	91	-0.01	0	580	19
96	96	7.5	8	7	63	11	24	36	86	10	91	7	16	1.0	48	7.50	84	2.00	21	340	62
97	97	3.4	25	8	49	16	8	38	84	16	57	6	22	1.5	20	7.60	77	1.00	35	350	60
99	99	4.0	20	9	40	17	3	40	82	15	60	5	51	1.5	20	8.10	34	4.00	6	340	62
100	100	0.1	100	5	87	8	49	34	87	6	99	2	95	0.6	56	7.70	67	1.30	31	450	34
101	101	0.1	100	6	74	16	8	34	87	15	60	2	95	3.0	1	7.10	98	5.70	3	2400	5
102	102	0.2	97	8	49	7	54	56	62	9	93	1	100	0.5	88	7.50	84	0.30	59	210	93
104	104	3.2	27	10	29	10	33	64	48	14	68	2	95	0.6	56	8.10	34	1.00	35	440	36
105	105	0.6	85	5	87	10	33	50	71	14	68	2	95	0.5	88	8.30	18	0.30	59	290	77
106	106	1.1	74	7	63	11	24	42	79	13	74	6	22	1.0	48	8.40	14	2.00	21	250	85
107	107	0.6	85	7	63	10	33	84	24	13	74	5	51	0.6	56	8.50	8	0.60	44	250	85
108	108	1.3	66	10	29	10	33	70	37	19	36	4	67	0.5	88	8.30	18	0.13	100	200	93
109	109	1.0	78	7	63	8	49	52	67	21	23	5	51	0.4	93	7.60	77	0.30	59	170	96
110	110	2.1	44	8	49	8	49	66	43	20	33	5	51	0.2	97	8.00	44	0.13	100	120	99

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TOP

SAMPLE SED	NUM WTR	U-SED PPM	RNK %	CU PPM	RNK %	PB PPM	RNK %	ZN PPM	RNK %	NI PPM	RNK %	MO PPM	RNK %	AG PPB	RNK %	PH %	U-WAT PPB	RNK %	COND UMHO	RNK %	
111	111	1.6	54	11	22	9	36	108	10	19	36	4	67	0.6	56	9.00	3	0.30	59	300	74
112	112	6.6	9	23	2	10	33	280	1	32	5	7	16	0.6	56	8.50	8	3.00	12	480	31
113	113	3.2	27	10	29	8	49	62	51	17	48	2	95	0.5	88	7.70	67	1.00	35	250	85
114	114	1.4	61	7	63	6	68	60	54	15	60	8	9	0.5	88	7.50	84	0.60	44	130	98
115	116	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.50	8	0.30	59	290	77
117	117	2.9	30	12	19	8	49	66	43	19	36	5	51	0.6	56	8.50	8	0.60	44	220	91
119	119	1.1	74	9	40	7	54	56	62	17	48	3	81	0.5	88	8.30	18	2.60	14	250	85
120	120	3.4	25	4	96	5	70	32	90	8	97	2	95	0.5	88	8.10	34	2.00	21	410	44
121	121	2.7	31	5	87	5	70	44	77	14	68	1	100	0.5	88	7.40	91	6.60	2	490	29
122	122	3.4	25	6	74	6	68	50	71	14	68	1	100	0.5	88	7.50	84	0.60	44	690	14
124	124	1.3	66	7	63	12	21	32	90	13	74	2	95	2.5	2	8.30	18	0.13	100	490	29
125	125	11.8	3	14	13	9	36	124	6	20	33	6	22	0.8	49	7.70	67	3.30	11	530	24
126	126	1.1	74	5	87	10	33	32	90	14	68	2	95	1.0	48	7.60	77	0.60	44	500	28
127	127	9.9	4	23	2	10	33	114	8	31	5	2	95	0.8	49	8.30	18	2.00	21	740	13
123	128	2.6	34	5	87	9	36	28	93	10	91	1	100	1.0	48	7.50	84	0.13	100	1450	6
129	129	1.1	74	4	96	10	33	30	92	8	97	2	95	1.0	48	8.20	24	0.13	100	500	28
130	130	1.1	74	3	100	8	49	20	99	17	48	1	100	1.0	48	7.90	53	0.30	59	600	17
131	131	4.3	17	10	29	6	68	70	37	23	17	2	95	0.5	88	8.40	14	3.60	7	540	22
132	132	3.0	29	4	96	6	68	26	94	10	91	1	100	0.6	56	7.60	77	1.30	31	560	21
133	133	2.6	34	3	100	7	54	20	99	5	100	2	95	0.5	88	8.10	34	5.30	4	750	12
134	134	4.5	15	19	5	12	21	124	6	25	14	2	95	0.4	93	8.10	34	0.13	100	520	25
135	135	8.1	6	14	13	12	21	92	18	29	8	3	81	0.4	93	9.40	0	0.13	100	260	82
136	136	4.2	19	14	13	13	13	80	27	34	4	3	81	0.5	88	9.10	2	0.13	100	380	52
137	137	2.6	34	11	22	13	13	96	14	28	10	4	67	0.4	93	8.00	44	1.30	31	300	74
139	139	3.8	21	9	40	8	49	74	31	18	44	3	81	0.1	100	7.70	67	3.30	11	230	88
140	140	7.2	8	12	19	8	49	82	24	19	36	1	100	0.2	97	9.30	1	5.00	5	220	91
141	141	2.1	44	7	63	9	36	52	67	16	57	5	51	0.1	100	-0.01	0	-0.01	0	0	0
142	142	5.3	13	13	15	7	54	68	40	18	44	5	51	0.2	97	-0.01	0	-0.01	0	0	0
143	143	3.8	21	18	6	10	33	96	14	30	7	4	67	0.4	93	-0.01	0	-0.01	0	0	0
144	144	1.1	74	8	49	6	68	58	57	12	82	1	100	0.1	100	-0.01	0	-0.01	0	0	0
145	145	2.7	31	8	49	6	68	106	10	18	44	1	100	0.1	100	-0.01	0	-0.01	0	0	0
146	146	2.2	41	8	49	7	54	60	54	16	57	1	100	0.1	100	-0.01	0	-0.01	0	0	0
147	147	1.8	51	8	49	6	68	68	40	13	74	0	100	0.2	97	-0.01	0	-0.01	0	0	0
149	149	3.2	27	9	40	6	68	54	64	16	57	3	81	0.2	97	-0.01	0	-0.01	0	0	0
150	150	2.2	41	9	40	7	54	90	20	20	33	3	81	0.2	97	-0.01	0	-0.01	0	0	0
151	151	1.9	47	9	40	8	49	94	16	19	36	3	81	0.5	88	-0.01	0	-0.01	0	0	0
152	152	3.0	29	10	29	14	12	64	48	26	12	9	5	0.5	88	8.70	4	-0.01	0	380	52
153	153	3.2	27	12	19	14	12	94	16	30	7	5	51	0.5	88	8.00	44	0.30	59	180	94
154	154	2.9	30	10	29	11	24	70	37	21	23	6	22	0.4	93	8.20	24	2.00	21	230	88
155	155	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.90	53	2.00	21	370	54
156	156	0.5	90	4	96	5	70	84	24	9	93	5	51	0.1	100	8.50	8	8.30	2	220	91
153	158	0.5	90	19	5	13	13	108	10	25	14	5	51	0.7	51	8.00	44	0.13	100	350	60
159	159	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.90	53	4.00	6	350	60
160	160	0.3	92	8	49	8	49	64	48	17	48	4	67	0.5	88	8.10	34	0.60	44	400	46
161	161	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.60	77	3.30	11	180	94
162	162	0.2	97	9	40	6	68	70	37	12	82	5	51	0.5	88	8.30	18	1.00	35	300	74
163	163	1.1	74	10	29	12	21	26	94	18	44	6	22	1.0	48	8.10	34	0.60	44	390	50
164	164	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.20	24	0.13	100	500	28
165	165	1.1	74	9	40	9	36	72	34	22	22	5	51	0.5	88	8.50	8	1.30	31	420	40
166	166	1.6	54	14	13	11	24	116	8	29	8	5	51	0.6	56	8.20	24	0.30	59	460	32

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TOP

SAMPLE SED	NUM WTR	U-SED PPM	RNK %	CU PPM	RNK %	PB PPM	RNK %	ZN PPM	RNK %	NI PPM	RNK %	MO PPM	RNK %	AG PPB	RNK %	PH %	U-WAT PPB	RNK %	COND UMHO	RNK %	
111	111	1.6	54	11	22	9	36	108	10	19	36	4	67	0.6	56	9.00	3	0.30	59	300	74
112	112	6.6	9	23	2	10	33	280	1	32	5	7	16	0.6	56	8.50	8	3.00	12	480	31
113	113	3.2	27	10	29	8	49	62	51	17	48	2	95	0.5	88	7.70	67	1.00	35	250	85
114	114	1.4	61	7	63	6	68	60	54	15	60	8	9	0.5	88	7.50	84	0.60	44	130	98
115	116	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.50	8	0.30	59	290	77
117	117	2.9	30	12	19	8	49	66	43	19	36	5	51	0.6	56	8.50	8	0.60	44	220	91
119	119	1.1	74	9	40	7	54	56	62	17	48	3	81	0.5	88	8.30	18	2.60	14	250	85
120	120	3.4	25	4	96	5	70	32	90	8	97	2	95	0.5	88	8.10	34	2.00	21	410	44
121	121	2.7	31	5	87	5	70	44	77	14	68	1	100	0.5	88	7.40	91	6.60	2	490	29
122	122	3.4	25	6	74	6	68	50	71	14	68	1	100	0.5	88	7.50	84	0.60	44	690	14
124	124	1.3	66	7	63	12	21	32	90	13	74	2	95	2.5	2	8.30	18	0.13	100	490	29
125	125	11.8	3	14	13	9	36	124	6	20	33	6	22	0.8	49	7.70	67	3.30	11	530	24
126	126	1.1	74	5	87	10	33	32	90	14	68	2	95	1.0	48	7.60	77	0.60	44	500	28
127	127	9.9	4	23	2	10	33	114	8	31	5	2	95	0.8	49	8.30	18	2.00	21	740	13
123	128	2.6	34	5	87	9	36	28	93	10	91	1	100	1.0	48	7.50	84	0.13	100	1450	6
129	129	1.1	74	4	96	10	33	30	92	8	97	2	95	1.0	48	8.20	24	0.13	100	500	28
130	130	1.1	74	3	100	8	49	20	99	17	48	1	100	1.0	48	7.90	53	0.30	59	600	17
131	131	4.3	17	10	29	6	68	70	37	23	17	2	95	0.5	88	8.40	14	3.60	7	540	22
132	132	3.0	29	4	96	6	68	26	94	10	91	1	100	0.6	56	7.60	77	1.30	31	560	21
133	133	2.6	34	3	100	7	54	20	99	5	100	2	95	0.5	88	8.10	34	5.30	4	750	12
134	134	4.5	15	19	5	12	21	124	6	25	14	2	95	0.4	93	8.10	34	0.13	100	520	25
135	135	8.1	6	14	13	12	21	92	18	29	8	3	81	0.4	93	9.40	0	0.13	100	260	82
136	136	4.2	19	14	13	13	13	80	27	34	4	3	81	0.5	88	9.10	2	0.13	100	380	52
137	137	2.6	34	11	22	13	13	96	14	28	10	4	67	0.4	93	8.00	44	1.30	31	300	74
139	139	3.8	21	9	40	8	49	74	31	18	44	3	81	0.1	100	7.70	67	3.30	11	230	88
140	140	7.2	8	12	19	8	49	82	24	19	36	1	100	0.2	97	9.30	1	5.00	5	220	91
141	141	2.1	44	7	63	9	36	52	67	16	57	5	51	0.1	100	-0.01	0	-0.01	0	0	0
142	142	5.3	13	13	15	7	54	68	40	18	44	5	51	0.2	97	-0.01	0	-0.01	0	0	0
143	143	3.8	21	18	6	10	33	96	14	30	7	4	67	0.4	93	-0.01	0	-0.01	0	0	0
144	144	1.1	74	8	49	6	68	58	57	12	82	1	100	0.1	100	-0.01	0	-0.01	0	0	0
145	145	2.7	31	8	49	6	68	106	10	18	44	1	100	0.1	100	-0.01	0	-0.01	0	0	0
146	146	2.2	41	8	49	7	54	60	54	16	57	1	100	0.1	100	-0.01	0	-0.01	0	0	0
147	147	1.8	51	8	49	6	68	68	40	13	74	0	100	0.2	97	-0.01	0	-0.01	0	0	0
148	149	3.2	27	9	40	6	68	54	64	16	57	3	81	0.2	97	-0.01	0	-0.01	0	0	0
150	150	2.2	41	9	40	7	54	90	20	20	33	3	81	0.2	97	-0.01	0	-0.01	0	0	0
151	151	1.9	47	9	40	8	49	94	16	19	36	3	81	0.5	88	-0.01	0	-0.01	0	0	0
152	152	3.0	29	10	29	14	12	64	48	26	12	9	5	0.5	88	8.70	4	-0.01	0	380	52
153	153	3.2	27	12	19	14	12	94	16	30	7	5	51	0.5	88	8.00	44	0.30	59	180	94
154	154	2.9	30	10	29	11	24	70	37	21	23	6	22	0.4	93	8.20	24	2.00	21	230	88
155	155	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.90	53	2.00	21	370	54
156	156	0.5	90	4	96	5	70	84	24	9	93	5	51	0.1	100	8.50	8	8.30	2	220	91
158	158	0.5	90	19	5	13	13	108	10	25	14	5	51	0.7	51	8.00	44	0.13	100	350	60
159	159	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.90	53	4.00	6	350	60
160	160	0.3	92	8	49	8	49	64	48	17	48	4	67	0.5	88	8.10	34	0.60	44	400	46
161	161	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.60	77	3.30	11	180	94
162	162	0.2	97	9	40	6	68	70	37	12	82	5	51	0.5	88	8.30	18	1.00	35	300	74
163	163	1.1	74	10	29	12	21	26	94	18	44	6	22	1.0	48	8.10	34	0.60	44	390	50
164	164	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	8.20	24	0.13	100	500	28
165	165	1.1	74	9	40	9	36	72	34	22	22	5	51	0.5	88	8.50	8	1.30	31	420	40
166	166	1.6	54	14	13	11	24	116	8	29	8	5	51	0.6	56	8.20	24	0.30	59	460	32

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TQP

SAMPLE SED	NUM WTR	U-SED PPM	RNK %	CU PPM	RNK %	PB PPM	RNK %	ZN PPM	RNK %	NI PPM	RNK %	MO PPM	RNK %	AG PPB	RNK %	PH	RNK %	U-WAT PPB	RNK %	COND UMHO	RNK %
167	167	0.6	85	8	49	6	68	66	43	15	60	5	51	0.4	93	8.20	24	0.13	100	430	38
168	168	1.8	51	7	63	6	68	54	64	16	57	5	51	0.4	93	7.80	57	1.30	31	280	78
170	170	1.8	51	5	87	6	68	50	71	12	82	5	51	0.2	97	-0.01	0	-0.01	0	0	0
175	175	4.2	19	9	40	6	68	42	79	15	60	5	51	0.4	93	-0.01	0	-0.01	0	0	0
177	177	4.8	13	5	87	21	1	42	79	17	48	6	22	2.5	2	-0.01	0	-0.01	0	0	0
178	178	0.3	92	0	0	4	79	40	82	20	33	4	67	0.5	88	-0.01	0	0.84	36	330	65
179	179	1.3	66	0	0	6	68	75	29	34	4	6	22	1.0	48	-0.01	0	0.50	46	680	15
180	180	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	0.34	53	560	21
181	181	1.0	78	0	0	10	33	87	22	30	7	5	51	0.5	88	-0.01	0	3.30	11	1620	5
187	187	0.6	85	0	0	6	68	58	57	22	22	4	67	0.5	88	-0.01	0	0.34	53	450	34
188	188	1.3	66	0	0	20	2	129	5	34	4	5	51	1.0	48	-0.01	0	0.13	100	1590	6
189	189	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	0.40	49	880	11
201	201	0.7	81	0	0	1	100	32	90	8	97	2	95	0.5	88	7.58	78	0.13	100	390	50
202	202	1.3	66	0	0	2	93	58	57	12	82	2	95	1.0	48	7.40	91	0.13	100	320	69
203	203	0.9	78	0	0	6	68	64	48	14	68	5	51	0.5	88	7.90	53	0.13	100	350	60
204	204	1.3	66	0	0	6	68	40	82	16	57	5	51	1.0	48	7.78	58	0.13	100	320	69
205	205	1.3	66	0	0	4	79	71	35	18	44	3	81	1.5	20	7.40	91	0.45	47	390	50
206	206	1.4	61	0	0	6	68	52	67	16	57	2	95	1.0	48	7.62	69	0.13	100	350	60
207	207	10.5	3	0	0	10	33	100	13	34	4	4	67	1.5	20	7.88	54	0.34	53	370	54
203	208	12.7	2	0	0	6	68	93	17	24	16	5	51	1.5	20	7.66	69	1.06	31	350	60
209	209	2.2	41	0	0	6	68	73	33	24	16	4	67	1.0	48	7.69	67	0.40	49	570	20
210	210	1.4	61	0	0	2	93	66	43	16	57	3	81	1.0	48	7.71	60	0.13	100	170	96
211	211	2.3	37	0	0	2	93	90	20	22	22	3	81	1.5	20	9.00	3	0.34	53	250	85
212	212	13.8	1	0	0	6	68	129	5	28	10	5	51	1.0	48	7.21	94	0.62	37	380	52
213	213	1.6	54	0	0	2	93	86	22	24	16	5	51	0.5	88	7.50	84	0.67	37	270	81
214	214	10.0	4	0	0	4	79	48	73	16	57	5	51	1.0	48	7.19	97	0.28	61	320	69
215	215	24.0	0	0	0	4	79	96	14	22	22	4	67	1.0	48	7.60	77	0.28	61	570	20
216	216	7.9	7	0	0	4	79	64	48	18	44	3	81	1.0	48	7.90	53	0.50	46	580	19
217	217	4.7	14	0	0	2	93	52	67	16	57	5	51	1.5	20	7.48	85	0.40	49	340	62
218	218	8.9	5	0	0	2	93	56	62	16	57	5	51	0.5	88	7.45	86	0.13	100	320	69
219	219	4.2	19	0	0	4	79	75	29	16	57	4	67	1.0	48	7.38	91	0.40	49	340	62
220	220	7.9	7	0	0	2	93	52	67	14	68	2	95	0.5	88	7.60	77	0.40	49	320	69
221	221	7.9	7	0	0	4	79	71	35	14	68	2	95	0.5	88	7.40	91	0.45	47	310	71
222	222	5.5	12	0	0	6	68	75	29	18	44	3	81	0.5	88	7.61	71	0.90	36	310	71
223	223	8.2	5	0	0	4	79	56	62	20	33	3	81	0.5	88	7.61	71	0.28	61	220	91
224	224	2.6	34	0	0	4	79	48	73	16	57	2	95	0.5	88	7.50	84	0.50	46	270	81
225	225	4.2	19	0	0	2	93	42	79	14	68	3	81	1.0	48	7.50	84	0.13	100	260	82
226	226	6.5	10	0	0	4	79	68	40	18	44	4	67	1.0	48	7.68	68	0.13	100	240	87
227	227	6.5	10	0	0	2	93	100	13	12	82	3	81	1.0	48	7.32	92	0.13	100	120	99
228	228	1.4	61	0	0	4	79	118	7	20	33	2	95	1.0	48	7.42	86	0.13	100	300	74
229	229	3.8	21	0	0	2	93	110	9	22	22	3	81	0.5	88	7.48	85	0.13	100	270	81
230	230	3.4	25	0	0	2	93	87	22	18	44	2	95	1.0	48	7.92	46	0.45	47	350	60
231	231	4.6	15	0	0	2	93	58	57	20	33	2	95	2.0	5	7.47	85	0.34	53	500	28
232	232	2.0	45	0	0	2	93	73	33	16	57	4	67	1.5	20	7.81	55	0.13	100	880	11
233	233	1.6	54	0	0	1	100	64	48	12	82	3	81	1.5	20	7.92	46	0.28	61	900	10
234	234	0.2	97	0	0	2	93	54	64	8	97	2	95	1.5	20	8.67	4	0.13	100	670	15
235	235	1.4	61	0	0	2	93	54	64	6	99	2	95	1.5	20	7.60	77	0.13	100	380	52
236	236	2.2	41	0	0	2	93	157	2	8	97	2	95	1.5	20	7.20	96	0.13	100	1100	7
237	237	17.4	1	0	0	2	93	64	48	8	97	3	81	1.0	48	8.10	34	0.13	100	420	40
238	238	1.8	51	9	40	4	79	64	48	16	57	3	81	1.0	48	8.01	36	0.13	100	350	60

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TOP

SAMP_E SED	NUM WTR	U-SED PPM	RNK %	CU PPM	RNK %	PB PPM	RNK %	ZN PPM	RNK %	NI PPM	RNK %	MO PPM	RNK %	AG PPB	RNK %	PH %	RNK %	U-WAT PPB	RNK %	COND UMHO	RNK %
239	239	2.8	31	0	0	2	93	80	27	14	68	4	67	0.5	88	7.37	91	0.13	100	150	97
240	240	3.6	22	0	0	6	68	64	48	20	33	2	95	1.0	48	7.71	60	0.13	100	320	69
241	241	2.4	36	0	0	2	93	66	43	16	57	5	51	1.0	48	7.50	84	0.13	100	270	81
242	242	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.21	94	0.13	100	400	46
243	243	1.2	67	0	0	2	93	62	51	18	44	3	81	0.5	88	7.50	84	0.13	100	350	60
244	244	0.2	97	0	0	2	93	40	82	14	68	4	67	0.5	88	7.58	78	0.13	100	480	31
245	245	0.2	97	0	0	1	100	56	62	18	44	5	51	1.5	20	8.36	14	0.13	100	440	36
245	246	0.4	92	0	0	2	93	36	86	14	68	2	95	1.0	48	8.06	35	0.13	100	410	44
247	247	0.2	97	0	0	2	93	64	48	20	33	4	67	1.5	20	6.95	99	0.13	100	430	38
249	249	0.1	100	0	0	1	100	73	33	30	7	5	51	1.0	48	7.10	98	0.13	100	12200	2
250	250	1.2	67	0	0	1	100	66	43	12	82	4	67	0.5	88	7.61	71	0.13	100	530	24
251	251	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.70	67	0.13	100	280	78
252	252	1.0	78	0	0	4	79	73	33	20	33	3	81	1.0	48	7.90	53	0.13	100	330	65
253	253	3.8	21	0	0	2	93	58	57	14	68	4	67	1.0	48	7.70	67	0.13	100	450	34
254	254	1.6	54	0	0	2	93	95	16	18	44	2	95	0.5	88	8.10	34	0.13	100	420	40
255	255	2.6	34	0	0	8	49	100	13	28	10	4	67	2.0	5	7.20	96	0.13	100	450	34
256	256	0.6	85	0	0	4	79	104	11	16	57	3	81	1.5	20	7.92	46	0.13	100	410	44
257	257	0.2	97	0	0	2	93	77	28	22	22	3	81	1.0	48	7.65	69	0.13	100	740	13
258	258	1.4	61	0	0	4	79	95	16	20	33	5	51	0.5	88	7.82	54	0.13	100	210	93
259	259	0.1	100	0	0	4	79	56	62	22	22	4	67	1.5	20	6.70	100	0.13	100	21000	1
260	260	0.1	100	0	0	4	79	60	54	22	22	5	51	1.0	48	7.71	60	0.13	100	20500	1
261	261	1.4	61	0	0	8	49	150	2	26	12	5	51	2.0	5	7.68	68	0.13	100	10800	3
262	262	0.4	92	0	0	8	49	135	3	28	10	4	67	1.0	48	6.90	99	0.13	100	12100	2
263	263	5.8	11	0	0	10	33	90	20	38	2	5	51	1.5	20	8.00	44	0.13	100	490	29
264	264	1.2	67	0	0	1	100	77	28	20	33	3	81	1.0	48	7.40	91	0.13	100	700	14
265	265	3.2	27	0	0	2	93	87	22	22	22	5	51	1.0	48	8.40	14	0.13	100	600	17
266	266	4.4	16	0	0	1	100	107	10	20	33	5	51	1.0	48	9.20	1	0.13	100	510	26
267	267	1.4	61	0	0	4	79	56	62	16	57	4	67	1.0	48	8.00	44	0.28	61	530	24
268	268	2.0	45	0	0	2	93	100	13	20	33	4	67	1.0	48	8.05	36	0.13	100	560	21
269	269	2.4	36	0	0	2	93	121	6	20	33	5	51	0.5	88	-0.01	0	0.13	100	550	22
270	270	1.4	61	0	0	4	79	20	99	24	16	5	51	3.5	0	6.88	100	0.13	100	9000	4
271	271	0.1	100	0	0	1	100	40	82	18	44	4	67	1.5	20	7.61	71	0.13	100	1390	7
272	272	0.1	100	0	0	1	100	38	84	20	33	3	81	2.0	5	7.20	96	0.13	100	10300	3
273	273	0.2	97	0	0	1	100	30	92	20	33	4	67	2.5	2	7.60	77	0.13	100	950	9
274	274	1.6	54	0	0	1	100	46	75	18	44	5	51	2.0	5	7.73	58	0.13	100	930	9
275	275	0.7	81	0	0	70	0	68	40	26	12	5	51	1.0	48	8.00	44	0.13	100	10000	4
276	276	3.4	25	0	0	4	79	80	27	20	33	3	81	1.5	20	8.00	44	0.38	51	510	26
277	277	2.3	37	0	0	8	49	80	27	16	57	4	67	0.5	88	7.70	67	0.28	61	450	34
278	278	5.5	12	0	0	8	49	68	40	20	33	4	67	1.0	48	7.70	67	0.38	51	550	22
279	279	2.2	41	0	0	8	49	96	14	20	33	7	16	0.5	88	8.21	19	0.13	100	400	46
280	280	1.9	47	0	0	2	93	73	33	12	82	5	51	1.5	20	7.92	46	0.13	100	270	81
281	281	2.5	34	0	0	1	100	64	48	12	82	1	100	0.5	88	7.70	67	0.13	100	210	93
282	282	9.7	5	0	0	4	79	90	20	20	33	5	51	1.0	48	7.89	54	0.38	51	480	31
283	283	2.3	37	0	0	6	68	93	17	20	33	5	51	0.5	88	7.30	93	0.13	100	110	99
284	284	4.3	17	0	0	1	100	48	73	16	57	5	51	0.5	88	7.50	84	0.13	100	280	78
285	285	7.8	8	0	0	2	93	117	7	14	68	5	51	0.5	88	7.40	91	0.13	100	170	96
286	286	6.0	10	0	0	1	100	56	62	14	68	4	67	0.5	88	7.70	67	0.13	100	270	81
287	287	12.1	3	0	0	2	93	103	11	20	33	6	22	1.0	48	7.90	53	0.13	100	290	77
288	288	1.9	47	0	0	1	100	48	73	22	22	5	51	0.5	88	7.70	67	0.13	100	390	50
289	289	0.7	81	0	0	1	100	44	77	12	82	2	95	1.5	20	7.46	86	0.13	100	170	96

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY

LIST OF VALUES AND THEIR RANK IN % FROM THE TOP

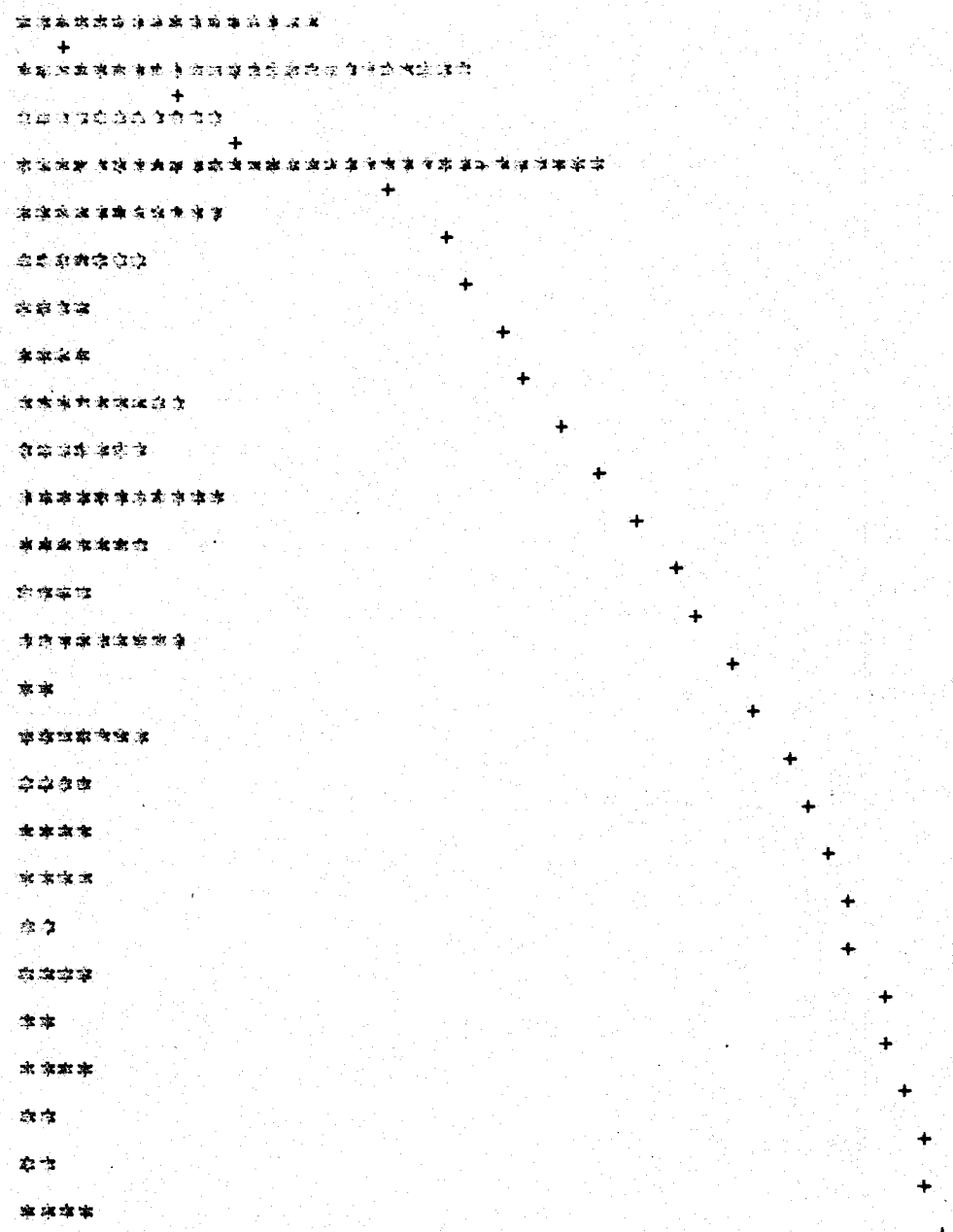
SAMP.	E NUM	U-SED	RNK	CU	RNK	PB	RNK	ZN	RNK	NI	RNK	MO	RNK	AG	RNK	PH	RNK	U-WAT	RNK	COND	RNK
SED	WTR	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPM	%	PPB	%	%	%	PPB	%	UMHO	%
290	290	1.8	51	0	0	1	100	66	43	12	82	7	16	1.0	48	7.53	78	0.13	100	0	0
292	292	4.9	13	0	0	2	93	66	43	16	57	4	67	1.0	48	7.59	77	0.13	100	390	50
293	293	0.4	92	0	0	6	68	119	6	34	4	2	95	1.0	48	7.50	84	0.38	51	10000	4
294	294	0.2	97	0	0	4	79	73	33	24	16	5	51	1.5	20	8.09	35	0.13	100	220	91
295	295	0.4	92	0	0	6	68	95	16	28	10	5	51	1.5	20	7.95	45	0.13	100	210	93
296	296	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	7.20	96	15.00	1	24000	0
297	297	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	1.38	24	450	34
298	298	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	2.20	15	0	0
299	299	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	0.13	100	320	69
399	399	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	0.13	100	230	88
300	300	-0.1	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	-0.01	0	0.13	100	320	69
379	379	-0.1	0	0	0	0	0	50	71	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
380	380	-0.1	0	0	0	0	0	22	97	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
381	381	-0.1	0	0	0	0	0	18	100	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
382	382	-0.1	0	0	0	0	0	50	71	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
383	383	-0.1	0	0	0	0	0	56	62	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
384	384	-0.1	0	0	0	0	0	20	99	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
385	385	-0.1	0	0	0	0	0	50	71	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
386	386	-0.1	0	0	0	0	0	28	93	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
387	387	-0.1	0	0	0	0	0	44	77	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
388	388	-0.1	0	0	0	0	0	40	82	0	0	0	0	-0.1	0	-0.01	0	-0.01	0	0	0
VALUES		239		144		239		249		239		239		239		235		241		246	

MARLINE SLAVE POSITIVE GEOCHEMICAL RESIDUALS
 STATISTICAL SUMMARY OF ALL SAMPLES

ELEMENT	AR.	MEAN	STD DEV	GECM	MEAN LN DEV	RANGE		SMPLS	<DET LIM
						MIN	MAX		
U S		2.367	3.202	1.126	3.650	0.100	18.90	90	0
CU		4.549	4.653	3.027	2.459	1.000	25.00	51	0
PB		4.174	6.921	2.736	2.264	1.000	63.00	92	0
ZN		27.053	42.390	12.460	3.797	1.000	264.00	113	0
NI		5.991	7.911	3.872	2.462	1.000	67.00	105	0
MO		2.066	1.788	1.653	1.843	1.000	12.00	91	0
AG		0.436	0.402	0.320	2.193	0.100	2.50	100	0
PH		0.315	0.296	0.199	2.943	0.010	1.50	112	0
U W		1.998	2.849	1.070	3.076	0.050	16.41	67	0
COND	1931.937		4849.777	141.107	9.255	2.000	23397.00	79	0

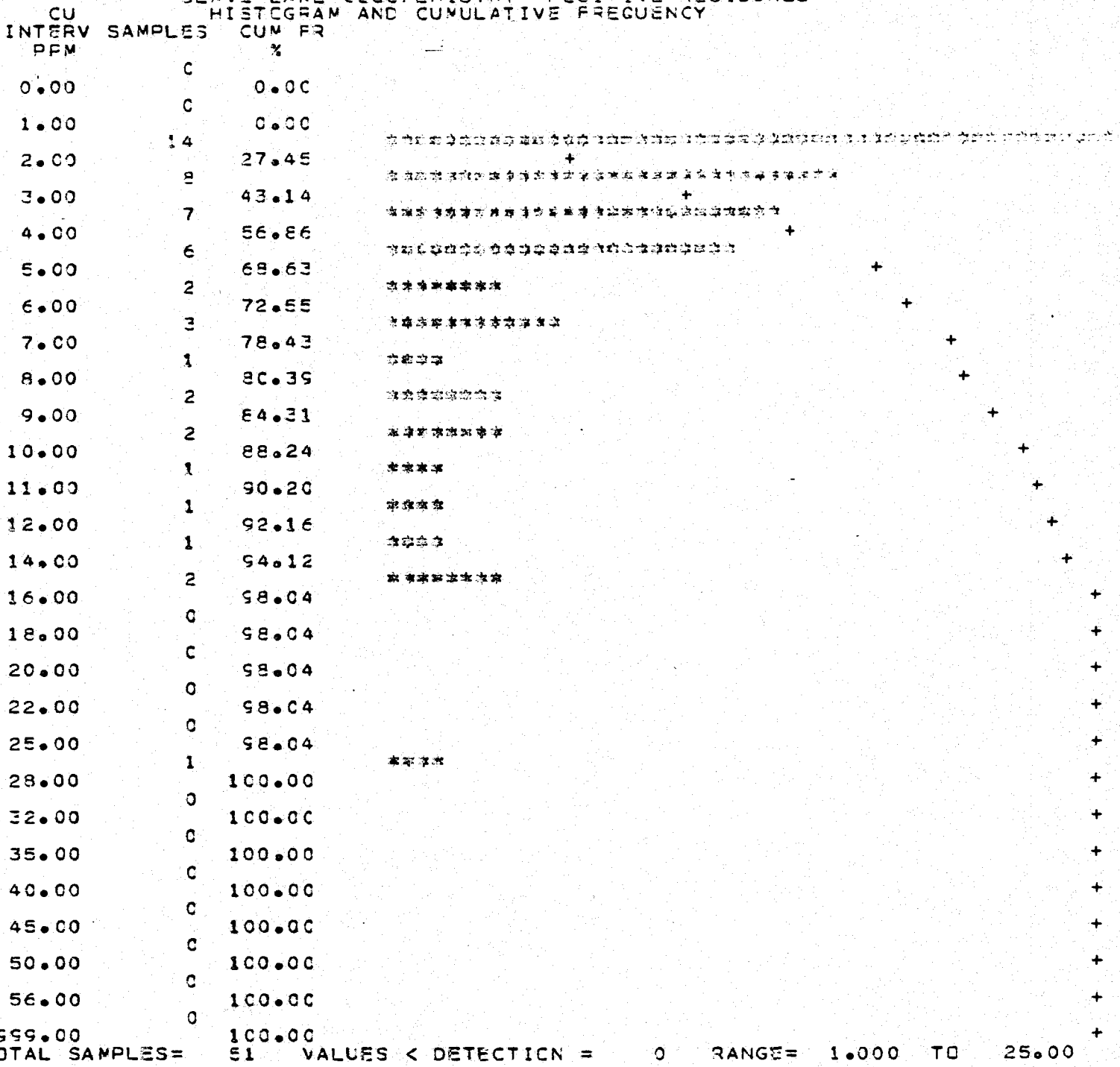
SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

U-S INTERV FFM	SAMPLES	CUM FR %
0.00	0	0.00
0.20	7	7.78
0.40	11	20.00
0.60	5	25.56
0.80	14	41.11
1.00	5	46.67
1.20	3	46.67
1.40	2	50.00
1.60	2	52.22
1.80	2	54.44
2.00	4	58.89
2.20	3	62.22
2.50	5	67.78
2.80	3	71.11
3.20	4	73.33
3.50	4	77.78
3.80	1	78.89
4.00	3	82.22
4.50	2	84.44
5.00	2	86.67
5.60	2	88.89
6.30	1	90.00
7.10	2	92.22
8.00	1	93.33
9.00	2	95.56
10.00	1	96.67
11.20	1	97.78
9999.00	2	100.00



TOTAL SAMPLES = 90 VALUES < DETECTION = 0 RANGE = 0.100 TC 18.90

SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

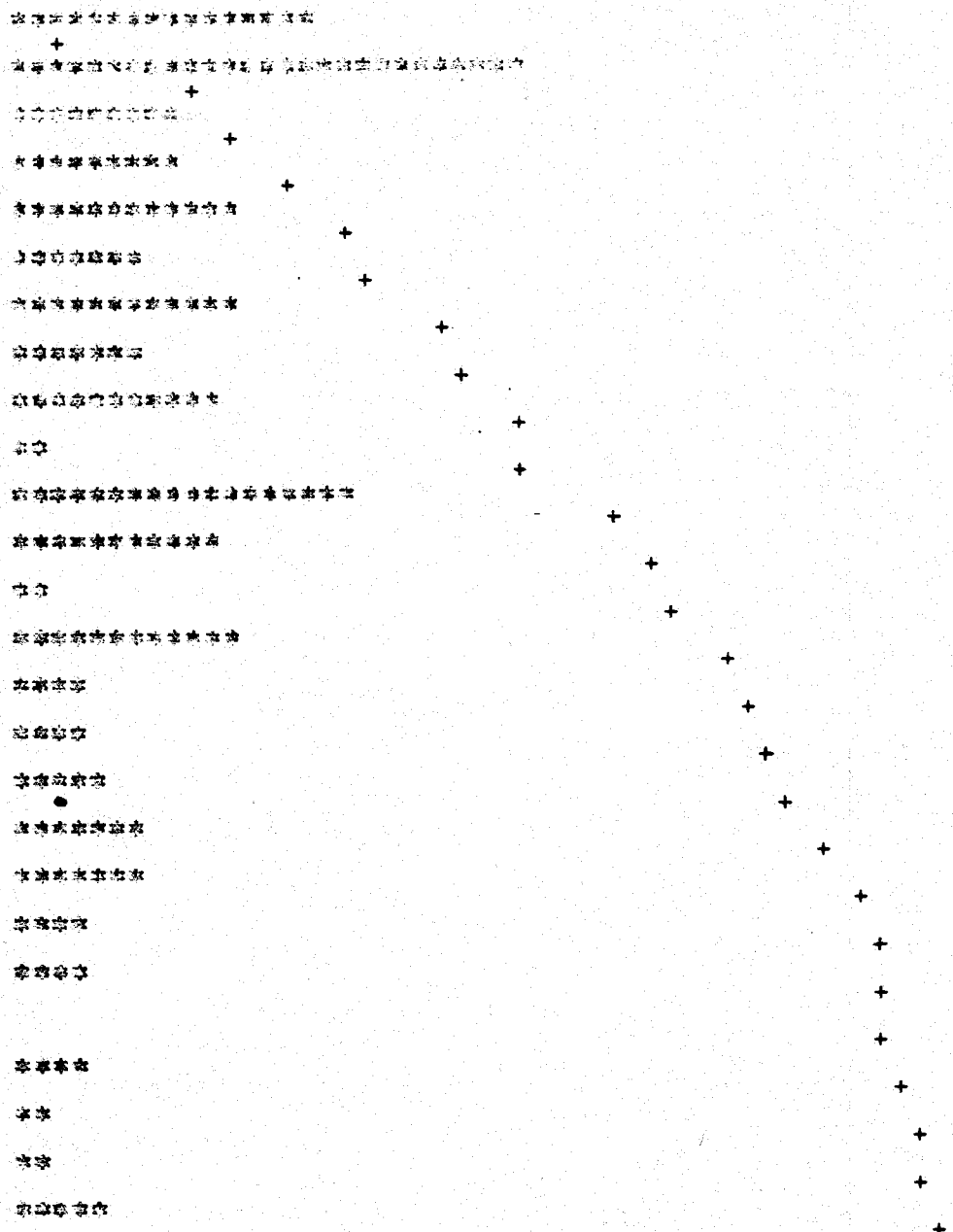


SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

PR INTERV PFM	SAMPLES	CUM FR %			
0.00	0	0.00			
1.00	0	0.00			
2.00	23	25.00	*****		
3.00	24	51.09	*****	+	
4.00	9	60.87	*****		
5.00	10	71.74	*****		
6.00	8	80.43	*****		
7.00	4	84.78	*****		
8.00	6	91.30	*****		
9.00	2	93.48	*****		
10.00	2	95.66	*****		
11.00	1	96.74	*****		
12.00	1	97.83	*****		
14.00	0	97.83			+
16.00	0	97.83			+
18.00	0	97.83			+
20.00	0	97.83			+
22.00	0	97.83			+
25.00	1	98.91	**		+
28.00	0	98.91			+
32.00	0	98.91			+
35.00	0	98.91			+
40.00	0	98.91			+
45.00	0	98.91			+
50.00	0	98.91			+
56.00	0	98.91			+
9999.00	1	98.91	**		+
TOTAL SAMPLES=	92	100.00	VALUES < DETECTION =	0	RANGE= 1.000 TC 63.00

SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

ZN INTERV PPM	SAMPLES	CUM FR %
0.00	0	0.00
2.00	9	7.96
4.00	15	21.24
6.00	6	25.66
8.00	5	30.09
10.00	7	36.26
12.00	4	39.26
14.00	7	46.02
16.00	4	49.56
18.00	6	54.87
20.00	1	55.75
22.00	10	64.60
25.00	6	69.91
28.00	1	70.80
32.00	7	76.99
35.00	2	78.76
40.00	2	80.53
45.00	3	83.19
50.00	4	86.73
56.00	4	90.27
63.00	2	92.04
71.00	2	93.81
80.00	0	93.81
90.00	2	95.58
100.00	1	96.46
112.00	1	97.34
9999.00	3	100.00



TOTAL SAMPLES = 113 VALUES < DETECTION = 0 RANGE = 1.000 TO 264.00

SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

NI INTERV PPM	SAMPLES	CUM FR %		
0.00	0	0.00		
1.00	0	0.00		
2.00	18	17.14	+	
3.00	13	29.52	+	
4.00	18	46.67	+	
5.00	13	59.05	+	
6.00	8	66.67	+	
7.00	4	70.48	+	
8.00	4	74.29	+	
9.00	6	79.29	+	
10.00	5	84.76	+	
11.00	3	87.62	+	
12.00	2	89.52	+	
14.00	2	91.43	+	
16.00	3	94.29	+	
18.00	3	97.14	+	
20.00	0	97.14	+	
22.00	0	97.14	+	
25.00	1	98.10	+	
28.00	0	98.10	+	
32.00	0	98.10	+	
35.00	0	98.10	+	
40.00	1	99.05	+	
45.00	0	99.05	+	
50.00	0	99.05	+	
56.00	0	99.05	+	
9999.00	1	100.00	+	

TOTAL SAMPLES = 105 VALUES < DETECTION = 0 RANGE = 1.000 TO 67.00

SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

MO INTERV PPM	SAMPLES	CUM FR %		
0.00	0	0.00		
1.00	0	0.00		
2.00	47	51.65	+	
3.00	23	76.92	+	
4.00	10	87.91	+	
5.00	4	92.31	+	
6.00	2	94.51	+	
7.00	3	97.80	+	
8.00	0	97.80	+	
9.00	0	97.80	+	
10.00	1	98.90	+	
11.00	0	98.90	+	
12.00	0	98.90	+	
14.00	1	100.00	+	
16.00	0	100.00	+	
18.00	0	100.00	+	
20.00	0	100.00	+	
22.00	0	100.00	+	
25.00	0	100.00	+	
28.00	0	100.00	+	
32.00	0	100.00	+	
35.00	0	100.00	+	
40.00	0	100.00	+	
45.00	0	100.00	+	
50.00	0	100.00	+	
56.00	0	100.00	+	
9999.00	0	100.00	+	
TOTAL SAMPLES=	91	VALUES < DETECTION =	0	RANGE= 1.000 TC 12.00

SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

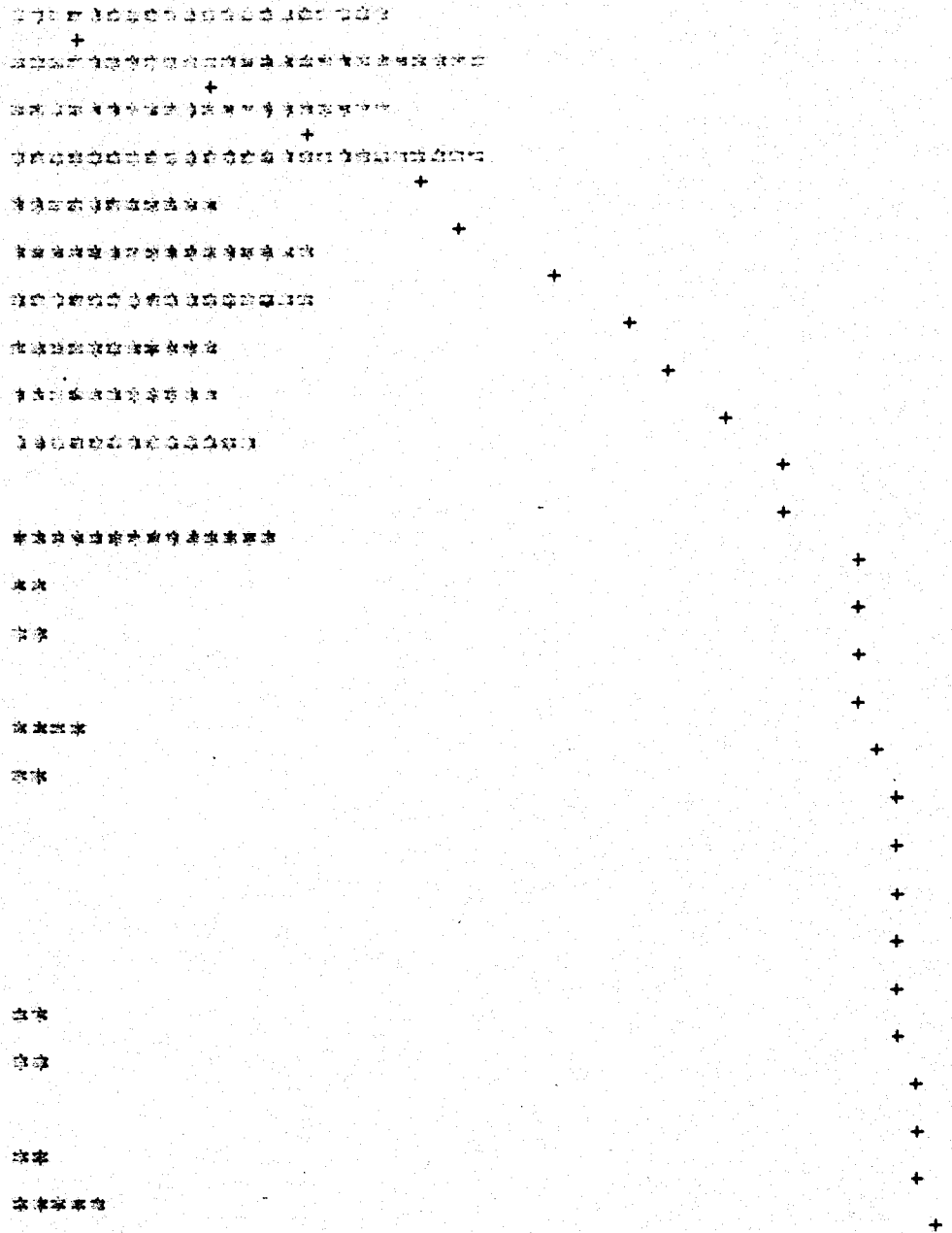
AG INTERV PFM	SAMPLES	CUM FR %			
0.00	0	0.00			
0.20	20	20.00	+		
0.30	15	35.00	+		
0.40	19	54.00	+		
0.50	10	64.00		+	
0.60	12	76.00			+
0.70	8	84.00			+
0.80	4	88.00			+
0.90	2	90.00			+
1.00	3	93.00			+
1.10	2	95.00			+
1.20	1	96.00			+
1.40	0	96.00			+
1.60	1	97.00	*		+
1.80	0	97.00			+
2.00	1	98.00	*		+
2.20	1	99.00	*		+
2.50	0	99.00			+
2.80	1	100.00	*		+
3.20	0	100.00			+
3.50	0	100.00			+
4.00	0	100.00			+
4.50	0	100.00			+
5.00	0	100.00			+
5.60	0	100.00			+
6.30	0	100.00			+
9999.00	0	100.00			+

TOTAL SAMPLES= 100 VALUES < DETECTION = 0 RANGE= 0.100 TO 2.50

SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

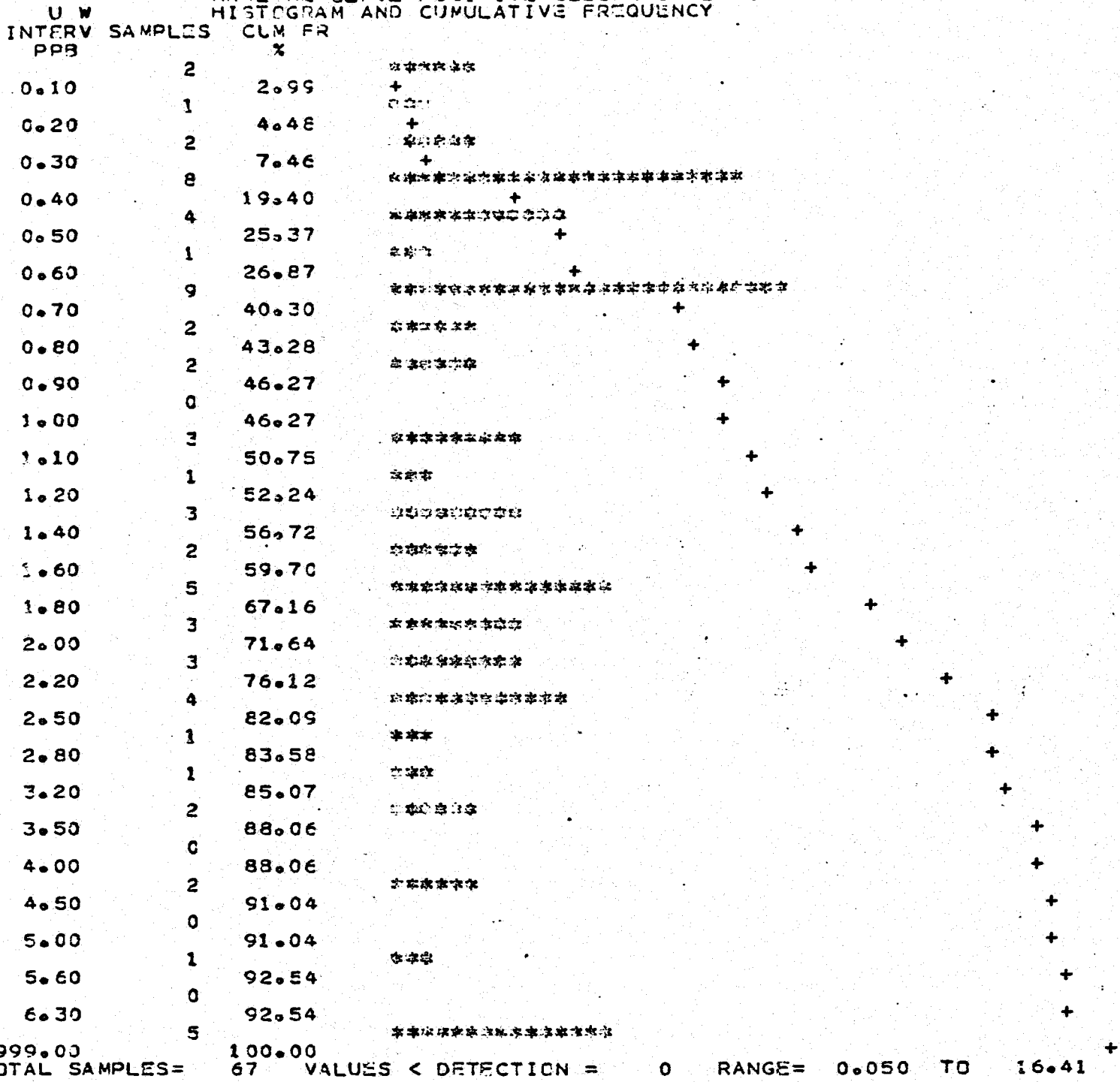
PH INTERV SAMPLES CLM FR %

PH INTERV	SAMPLES	CLM FR %
0.00	0	0.00
0.05	11	9.82
0.10	14	22.32
0.15	11	32.14
0.20	14	44.64
0.25	6	50.00
0.30	9	58.04
0.35	9	66.07
0.40	6	71.43
0.45	6	76.79
0.50	7	83.04
0.55	0	83.04
0.60	8	83.04
0.65	1	90.18
0.70	1	91.07
0.75	0	91.96
0.80	2	91.96
0.85	1	93.75
0.90	0	94.64
0.95	0	94.64
1.00	0	94.64
1.05	0	94.64
1.10	1	94.64
1.15	1	95.54
1.20	0	96.43
1.25	1	96.43
1.30	1	97.32
1.35	3	100.00



9999.00 TOTAL SAMPLES = 112 VALUES < DETECTION = 0 RANGE = 0.010 TO 1.50

MARLINE SLAVE POSITIVE GEOCHEMICAL RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY



SLAVE LAKE GEOCHEMISTRY POSITIVE RESIDUALS
HISTOGRAM AND CUMULATIVE FREQUENCY

CCND INTERV MMHO	SAMPLES	CUM FR %	
0.00	0	0.00	
20.00	13	16.67	+
40.00	8	25.02	+
60.00	5	33.33	+
80.00	11	47.44	+
100.00	4	52.56	+
110.00	0	52.56	+
120.00	2	55.13	+
140.00	3	58.97	+
160.00	4	64.10	+
180.00	3	67.95	+
200.00	0	67.95	+
220.00	2	70.51	+
250.00	3	74.36	+
280.00	1	75.64	+
320.00	2	78.21	+
360.00	0	78.21	+
400.00	1	79.49	+
500.00	1	80.77	+
650.00	1	82.05	+
800.00	2	84.62	+
1250.00	1	85.90	+
2000.00	1	87.18	+
2800.00	0	87.18	+
3500.00	0	87.18	+
4000.00	0	87.18	+
9999.00	10	100.00	+

TOTAL SAMPLES= 78 VALUES < DETECTION = 0 RANGE= 2.000 TO 9999.00

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY 1978 MASTER DATABANK LISTING

SAMPLE	POSITION		MEASURED										RESIDUAL									
	EAST	NORTH	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO
SLAVE 1	126720	126610	1.4	10	10	158	9	19	0.5	7.60	0.13	100	-0.2	1	0	82	-6	12	0.0	-0.36	-1.28	-178
SLAVE 2	128655	126330	1.4	20	32	36	10	3	0.3	7.60	0.30	210	-0.2	11	22	-31	-5	-2	-0.2	-0.29	-1.07	-80
SLAVE 3	130005	124685	1.9	3	7	62	10	8	0.4	7.30	0.60	120	0.1	-3	0	-1	-6	2	-0.2	-0.63	-0.97	-196
SLAVE 4	129730	124370	1.8	6	8	88	10	7	0.2	8.10	0.60	280	0.0	-1	-1	21	-6	1	-0.4	0.14	-1.07	-28
SLAVE 5	129570	124120	1.0	4	8	82	52	5	0.5	7.90	2.00	220	-0.7	-3	-1	15	35	0	-0.1	-0.05	0.32	-88
SLAVE 6	129650	123905	1.1	4	8	74	84	7	1.0	8.30	5.30	330	-0.3	-1	-1	16	67	0	0.2	0.26	3.11	-5
SLAVE 7	130185	123445	1.1	9	7	88	19	9	0.5	8.60	2.60	240	-0.5	3	-1	33	3	2	-0.2	0.56	0.68	-91
SLAVE 8	129790	123610	1.4	6	8	60	17	10	0.5	8.00	0.13	410	0.0	0	-1	2	0	3	-0.2	-0.03	-2.17	74
SLAVE 9	129630	123250	-0.1	-1	-1	-1	-1	-1	-0.1	8.40	0.30	320	0.0	0	0	0	0	0	0.0	0.36	-1.88	-15
SLAVE 10	129375	123585	1.6	3	16	30	10	5	1.5	8.60	1.30	480	0.1	-2	6	-27	-6	-1	0.7	0.56	-0.88	144
SLAVE 11	128875	123150	1.8	6	12	46	18	9	0.7	8.20	1.60	580	0.3	0	2	-11	1	2	0.0	0.16	-0.58	244
SLAVE 12	128755	122450	1.8	5	12	48	13	7	1.0	8.10	1.00	410	0.3	0	2	-9	-3	0	0.2	0.06	7.81	74
SLAVE 13	129575	122165	-0.1	-1	-1	-1	-1	-1	-0.1	7.40	18.60	220	0.0	0	0	0	0	0	0.0	-0.63	16.41	-115
SLAVE 14	130755	122230	1.4	5	5	52	12	6	0.5	8.10	0.60	310	-0.2	0	-3	-2	-3	0	-0.2	0.06	-1.31	-21
SLAVE 15	129455	121100	1.0	4	12	30	13	8	1.0	8.00	1.30	390	-0.5	0	2	-13	-2	1	0.1	-0.09	-0.94	37
SLAVE 16	130100	120385	1.1	3	16	16	14	13	1.6	8.10	1.60	350	-0.3	-1	5	-23	0	6	0.5	0.00	-0.19	4
SLAVE 17	130335	120170	1.1	3	12	28	23	6	1.0	8.20	3.60	360	-0.3	-1	1	-11	9	0	0.0	0.09	1.80	14
SLAVE 18	130640	120330	-0.1	-1	-1	-1	-1	-1	-0.1	8.90	1.30	410	0.0	0	0	0	0	0	0.0	0.79	-0.49	64
SLAVE 19	130825	120000	2.2	4	12	22	11	9	1.0	8.30	1.30	510	0.7	0	1	-17	-2	2	0.0	0.19	-0.49	164
SLAVE 20	131335	120100	0.5	4	10	30	12	5	1.0	8.10	1.00	290	-0.9	0	0	-9	-1	-1	0.0	0.00	-0.79	-55
SLAVE 21	131825	119825	1.4	5	12	34	9	4	1.0	8.40	0.60	340	0.0	0	1	-7	-4	-1	0.0	0.26	-0.79	-1
SLAVE 22	131875	120105	0.5	4	14	22	10	6	1.5	8.10	1.00	320	-0.9	0	3	-17	-3	0	0.5	0.00	-0.79	-25
SLAVE 23	132265	119940	0.8	4	14	24	9	7	1.3	8.00	2.00	330	-1.0	-2	3	-25	-5	1	0.4	-0.11	1.00	0
SLAVE 24	132870	119730	1.0	5	10	32	10	5	1.0	8.00	0.13	350	-0.8	-1	0	-17	-4	0	0.1	-0.11	-0.98	20
SLAVE 25	133195	119760	2.1	6	12	32	11	8	1.2	8.10	0.13	320	0.2	0	1	-17	-3	2	0.3	-0.01	-0.98	-9
SLAVE 26	133180	120125	6.7	12	13	64	21	10	0.6	8.50	1.30	420	4.7	6	3	20	7	4	0.2	0.36	0.20	70
SLAVE 27	133775	120095	1.1	4	12	26	9	10	1.0	8.20	0.60	310	-0.8	-1	2	-17	-4	4	0.1	0.06	-0.49	-39
SLAVE 28	134420	120125	-0.1	-1	-1	-1	-1	-1	-0.1	8.10	0.60	410	0.0	0	0	0	0	0	0.0	0.31	-0.17	54
SLAVE 29	134540	119585	5.7	7	8	40	17	5	0.5	8.40	1.00	420	3.4	0	-1	-18	0	0	0.1	0.34	0.22	90
SLAVE 30	135500	119775	2.2	7	14	48	13	7	1.0	7.90	0.13	390	0.0	0	4	-10	-3	1	0.3	-0.15	0.00	60
SLAVE 32	123255	119370	2.2	16	10	60	28	8	0.5	8.30	0.30	350	0.7	6	1	0	10	2	0.0	0.24	-0.68	-12
SLAVE 33	123570	119490	0.8	6	5	38	7	7	0.5	7.40	1.30	170	-0.6	-3	-3	-22	-10	1	0.0	-0.65	0.31	-192
SLAVE 35	123935	124015	1.9	7	8	78	17	6	0.5	8.40	1.00	370	0.0	-1	0	2	0	0	-0.1	0.34	-0.71	-83
SLAVE 36	124620	124045	3.4	12	12	130	22	8	0.5	8.00	2.30	350	1.7	2	1	54	4	1	0.0	-0.07	0.60	16
SLAVE 37	124835	124325	1.0	14	14	340	20	13	0.7	7.90	1.30	250	-0.6	4	3	264	2	6	0.1	-0.17	-0.39	-93
SLAVE 39	134300	117925	2.2	13	14	112	25	7	0.7	8.10	0.30	250	0.0	4	5	43	8	3	0.1	0.07	-0.64	-74
SLAVE 40	133645	117390	1.3	9	10	70	19	2	0.5	8.10	1.60	330	-0.4	1	0	7	3	-2	-0.1	0.04	0.60	5
SLAVE 41	133365	116880	2.1	6	8	56	18	2	0.5	8.00	1.60	300	0.3	-1	-1	-6	2	-2	-0.1	-0.05	0.60	-24
SLAVE 42	133065	116745	2.1	18	12	160	22	14	0.8	7.80	1.30	250	0.3	10	2	97	6	9	0.1	-0.25	0.30	-74
SLAVE 43	132330	116115	-0.1	-1	-1	-1	-1	-1	-0.1	8.40	2.00	240	0.0	0	0	0	0	0	0.0	0.34	1.00	-84
SLAVE 44	132295	115475	2.2	7	9	80	13	5	0.5	8.00	0.60	130	0.5	0	0	17	0	1	-0.1	0.02	-0.48	-249
SLAVE 45	132815	115220	1.0	7	10	84	16	5	0.5	8.00	1.00	470	-0.6	0	1	21	2	1	-0.1	0.02	-0.08	90
SLAVE 46	131920	115320	0.8	9	11	68	13	9	0.6	8.10	0.13	260	-0.5	2	2	7	0	5	0.0	0.13	-0.90	-108
SLAVE 47	131995	114940	1.0	7	8	72	12	3	0.5	7.90	1.00	390	-0.3	0	0	11	-1	0	0.0	-0.06	0.09	21
SLAVE 48	131910	114555	1.3	6	8	90	8	2	0.5	7.80	1.30	330	0.0	0	0	29	-5	-1	0.0	-0.16	0.39	-38
SLAVE 49	131385	114620	0.5	4	6	46	8	3	0.5	7.70	2.60	360	-0.8	-2	-2	-14	-5	0	0.0	-0.26	1.69	-8
SLAVE 50	131675	113880	1.1	8	12	50	16	4	0.1	7.70	2.00	520	-0.3	0	3	-6	2	0	-0.6	-0.24	1.03	73
SLAVE 51	131225	113220	3.0	11	14	62	18	4	1.0	8.40	0.13	440	1.5	3	5	5	4	0	0.2	0.45	-0.95	-6
SLAVE 52	130650	113830	0.5	6	10	58	11	3	0.5	8.00	0.30	390	-0.9	-1	1	1	-2	-1	-0.2	0.05	-0.66	-56
SLAVE 53	130320	113530	0.5	5	6	56	12	4	0.5	7.80	0.13	430	-0.9	-2	-2	0	-1	0	-0.2	-0.14	-0.95	-16
SLAVE 54	129895	113470	1.4	8	8	68	14	3	0.5	8.40	0.60	370	0.0	0	0	10	0	-1	-0.1	0.45	-0.20	-52
SLAVE 55	129875	113050	0.6	6	8	60	11	5	0.5	8.20	0.60	410	-0.7	-1	0	2	-2	0	0.1	0.25	-0.20	-12
SLAVE 56	129025	113120	0.6	7	6	56	10	3	0.4	7.20	0.30	100	-0.7	0	-2	-1	-3	-1	-0.2	-0.74	-0.50	-322
SLAVE 57	128935	112525	1.1	7	8	50	14	8	0.5	8.40	0.13	440	-0.2	0	0	-7	0	3	-0.1	0.45	-0.80	17
SLAVE 59	128575	112480	0.8	7	7	60	15	5	0.5	8.70	0.13	420	-0.5	0	-1	2	1	0	-0.1	0.75	-0.80	-2
SLAVE 60	127495	111610	0.6	8	6	52	11	5	0.4	7.40	0.13	300	-0.7	0	-1	-8	-3	0	-0.1	-0.49	-1.29	-211
SLAVE 61	126415	110890	1.8	9	7	74	15	5	0.5	7.90	3.30	590	0.4	0	0	13	0	0	0.0	0.00	2.00	78
SLAVE 62	126245	110470	1.3	7	6	62	12	4	0.4	7.90	1.30	390	0.0	-1	-1	1	-2	0	-0.1	0.00	0.00	-121
SLAVE 63	125650	110300	1.4	10	7	78	32	5	0.5	7.90	3.00	290	0.0	1	0	16	16	0	0.0	0.03	1.45	-297
SLAVE 64	125080	110240	1.3	9	6	44	13	5	0.5	7.90	1.60	430	-0.1	0	0	-17	-2	0	0.0	0.03	0.05	-157

4ARLINE SLAVE PROJECT GEOCHEMICAL SURVEY 1978 MASTER DATABASE LISTING

SAMPLE	POSITION		MEASURED											RESIDUAL										
	EAST	NORTH	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO		
SLAVE 134	135320	106820	4.5	19	12	124	25	2	0.4	8.10	0.13	520	2.0	9	4	62	8	-1	0.7	0.31	-1.18	-405		
SLAVE 135	143455	109150	8.1	14	13	92	29	3	0.4	9.40	0.13	260	4.5	4	5	13	8	0	0.1	1.50	-1.19	-570		
SLAVE 136	143230	109940	4.2	14	13	80	34	3	0.5	9.10	0.13	380	0.6	4	6	1	13	0	0.0	1.20	-1.19	-450		
SLAVE 137	142895	111015	2.6	11	13	96	28	4	0.4	8.00	1.30	300	-1.0	1	5	16	7	1	0.0	0.05	-0.07	-286		
SLAVE 139	142030	110915	3.8	9	8	74	18	3	0.1	7.70	3.30	230	0.1	0	0	-5	-2	0	0.2	0.24	1.92	-356		
SLAVE 140	141810	111040	7.2	12	8	82	19	1	0.2	9.30	5.00	220	4.0	2	1	7	0	-1	0.2	1.39	3.42	-321		
SLAVE 141	141730	111405	2.1	7	9	52	16	5	0.1	-0.01	0.13	-1	-1.0	-2	2	-22	-2	2	0.3	0.00	0.00	0		
SLAVE 142	141375	110645	5.3	13	7	68	18	5	0.2	-0.01	0.13	-1	2.1	3	0	-6	0	2	0.2	0.00	0.00	0		
SLAVE 143	140895	110545	3.8	18	10	96	30	4	0.4	-0.01	0.13	-1	0.6	8	3	21	11	1	0.0	0.00	0.00	0		
SLAVE 144	140565	111070	1.1	8	6	58	12	1	0.1	-0.01	0.13	-1	-2.0	-1	0	-16	-6	-1	0.3	0.00	0.00	0		
SLAVE 145	140100	110965	2.7	8	6	106	18	1	0.0	-0.01	0.13	-1	-0.4	-1	0	31	0	-1	0.3	0.00	0.00	0		
SLAVE 146	139215	111520	2.2	8	7	60	16	1	0.0	-0.01	0.13	-1	-0.8	0	0	-6	-5	-1	0.6	0.00	0.00	0		
SLAVE 147	140270	111985	1.8	8	6	68	13	0	0.2	-0.01	0.13	-1	-1.3	-1	0	-6	-5	-1	0.2	0.00	0.00	0		
SLAVE 149	140100	112420	3.2	9	6	54	16	3	0.2	-0.01	0.13	-1	0.1	0	0	-19	-1	0	0.1	0.00	0.00	0		
SLAVE 150	139765	112810	2.2	9	7	90	20	3	0.2	-0.01	0.13	-1	-0.6	0	0	22	4	0	0.3	0.00	0.00	0		
SLAVE 151	139205	113650	1.9	9	8	94	19	3	0.5	-0.01	0.13	-1	-0.9	0	1	26	3	0	0.0	0.00	0.00	0		
SLAVE 152	121335	131180	3.0	10	14	64	26	9	0.5	8.70	0.13	380	0.4	0	4	-9	5	3	0.1	0.64	0.00	-20		
SLAVE 153	120820	130845	3.2	12	14	94	30	5	0.5	8.00	0.30	180	0.6	2	4	20	9	0	0.1	-0.05	-0.84	-220		
SLAVE 154	118770	130085	2.9	10	11	70	21	6	0.4	8.20	2.00	230	0.2	1	1	0	0	1	0.2	0.15	0.73	-209		
SLAVE 155	122255	127120	-0.1	-1	-1	-1	-1	-1	-0.1	7.90	2.00	370	0.0	0	0	0	0	0	0.0	-0.11	0.44	-2		
SLAVE 156	123575	124405	0.5	4	5	84	9	5	0.1	8.50	8.30	220	-1.3	-5	-4	5	-8	0	0.4	0.46	6.42	-116		
SLAVE 158	123295	122395	0.5	19	13	108	25	5	0.7	8.00	0.13	350	-1.3	9	4	33	7	0	0.0	-0.01	-1.69	-34		
SLAVE 159	120460	122905	-0.1	-1	-1	-1	-1	-1	-0.1	7.90	4.00	350	0.0	0	0	0	0	0	0.0	0.09	2.25	-11		
SLAVE 160	119815	122210	0.3	8	8	64	17	4	0.5	8.10	0.60	400	-1.2	-1	0	-9	-1	0	0.1	0.16	-1.08	33		
SLAVE 161	118220	121900	-0.1	-1	-1	-1	-1	-1	-0.1	7.60	3.30	180	0.0	0	0	0	0	0	0.0	0.33	1.79	-195		
SLAVE 162	127240	118875	0.2	9	6	70	12	5	0.5	8.30	1.00	300	-1.1	1	-2	20	-3	0	0.2	0.20	-0.56	-52		
SLAVE 163	121730	117690	1.1	10	12	26	18	6	1.0	8.10	0.60	390	-0.6	1	4	-34	0	1	0.4	0.06	-0.15	-4		
SLAVE 164	122370	117795	-0.1	-1	-1	-1	-1	-1	-0.1	8.20	0.13	500	0.0	0	0	0	0	0	0.0	0.14	-0.73	76		
SLAVE 165	123240	117440	1.1	9	9	72	22	5	0.5	8.50	1.30	420	-0.6	0	1	9	3	0	0.1	0.44	0.56	-3		
SLAVE 166	123130	116295	1.6	14	11	116	29	5	0.6	8.20	0.30	460	-0.1	4	3	53	10	0	0.0	0.14	-0.43	36		
SLAVE 167	122390	116895	0.6	8	6	66	15	5	0.4	8.20	0.13	430	-1.1	-1	-1	3	-3	0	0.2	0.14	-0.73	6		
SLAVE 168	117635	116185	1.8	7	6	54	16	5	0.4	7.80	1.30	280	0.0	0	0	-13	-1	0	0.2	-0.05	0.42	-266		
SLAVE 170	117585	115890	1.8	5	6	50	12	5	0.2	-0.01	0.13	-1	-0.1	-2	0	-15	-5	0	0.4	0.00	0.00	0		
SLAVE 175	119190	115245	4.2	9	6	42	15	5	0.4	-0.01	0.13	-1	2.0	0	0	-19	-1	0	0.2	0.00	0.00	0		
SLAVE 177	120080	107495	4.8	5	21	42	17	6	2.5	-0.01	0.13	-1	2.5	-3	11	-19	0	1	1.5	0.00	0.00	0		
SLAVE 178	145150	103475	0.3	-1	4	40	20	4	0.5	-0.01	0.84	330	-3.2	0	0	-25	1	0	0.2	0.00	0.33	-188		
SLAVE 179	144695	103925	1.3	-1	6	75	34	6	1.0	-0.01	0.50	680	-2.2	0	2	9	15	2	0.2	0.00	0.00	161		
SLAVE 180	143800	105170	-0.1	-1	-1	-1	-1	-1	-0.1	-0.01	0.34	560	0.0	0	0	0	0	0	0.0	0.00	-0.35	-33		
SLAVE 181	142775	109825	1.0	-1	10	87	30	5	0.5	-0.01	3.30	1620	-2.5	0	3	8	9	2	0.0	0.00	2.09	789		
SLAVE 187	136170	119570	0.6	-1	6	58	22	4	0.5	-0.01	0.34	450	-1.7	0	-1	-5	4	0	0.1	0.00	-0.49	124		
SLAVE 188	0	0	1.3	0	20	129	34	5	1.0	0.00	0.13	1590	0.0	0	0	0	0	0	0.0	0.00	0.00	0		
SLAVE 189	0	0	0.0	0	0	0	0	0	0.0	0.00	0.40	880	0.0	0	0	0	0	0	0.0	0.00	0.00	0		
SLAVE 201	133800	128325	0.7	-1	1	32	8	2	0.5	7.58	0.13	390	-0.6	0	-4	-25	-5	-2	0.1	-0.17	0.47	61		
SLAVE 202	134100	128220	1.3	-1	2	58	12	2	1.0	7.40	0.13	320	-0.5	0	-3	0	-2	-1	0.2	-0.33	-0.40	-52		
SLAVE 203	134820	128025	0.9	-1	6	64	14	5	0.5	7.90	0.13	350	-0.9	0	0	6	0	1	0.2	0.16	-0.40	-22		
SLAVE 204	135200	127790	1.3	-1	6	40	16	5	1.0	7.78	0.13	320	-0.3	0	0	-16	1	0	0.1	0.02	-0.50	-21		
SLAVE 205	135360	125845	1.3	-1	4	71	18	3	1.5	7.40	0.45	390	-0.5	0	-3	17	2	-1	0.6	-0.46	-0.47	41		
SLAVE 206	138970	126470	1.4	-1	6	52	16	2	1.0	7.62	0.13	350	-1.8	0	0	-13	-2	-1	0.0	-0.16	-0.42	-104		
SLAVE 207	140220	126850	10.5	-1	10	100	34	4	1.5	7.88	0.34	370	6.6	0	3	29	14	0	0.5	0.06	-0.44	-113		
SLAVE 208	141215	125600	12.7	-1	6	93	24	5	1.5	7.66	1.06	350	8.6	0	0	21	4	1	0.4	-0.13	0.39	-81		
SLAVE 209	141120	123610	2.2	-1	6	73	24	4	1.0	7.69	0.40	570	-1.7	0	1	1	4	0	0.0	-0.08	-0.11	208		
SLAVE 210	141025	122040	1.4	-1	2	66	16	3	1.0	7.71	0.13	170	-2.5	0	-2	-5	-3	0	0.0	-0.06	-0.26	-191		
SLAVE 211	144510	122965	2.3	-1	2	90	22	3	1.5	9.00	0.34	250	-1.5	0	-3	14	2	0	0.5	1.13	-0.44	-225		
SLAVE 212	146500	120170	13.8	-1	6	129	28	5	1.0	7.21	0.62	380	9.4	0	0	50	8	1	0.1	-0.53	-0.18	-104		
SLAVE 213	147455	113000	1.6	-1	2	86	24	5	0.5	7.50	0.67	270	-2.5	0	-3	9	4	1	0.3	-0.21	-0.13	-212		
SLAVE 214	143710	113745	10.0	-1	4	48	16	5	1.0	7.19	0.28	320	5.1	0	0	-24	-2	1	0.1	-0.54	-0.34	-40		
SLAVE 215	142865	117750	24.0	-1	4	96	22	4	1.0	7.60	0.28	570	18.9	0	0	24	-3	1	0.3	-0.17	-0.63	159		
SLAVE 216	144270	115705	7.9	-1	4	64	18	3	1.0	7.90	0.50	580	2.6	0	-1	-9	-1	0	0.4	0.06	-0.48	110		
SLAVE 217	148695	111750	4.7	-1	2	52	16	5	1.5	7.48	0.40	340	-0.6	0	-2	-15	-2	1	0.8	-0.20	-0.17	-210		
SLAVE 218	147820	110955	8.9	-1	2	56	16	5	0.5	7.45	0.13	320	3.9	0	-2	-16	-2	2	0.1	-0.21	-0.47	-254		

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY 1978 MASTER DATABANK LISTING

SAMPLE	POSITION		MEASURED										RESIDUAL										
	EAST	NORTH	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO	
SLAVE	219	146470	110570	4.2	-1	4	75	16	4	1.0	7.38	0.40	340	-0.7	0	0	2	-2	1	0.3	-0.28	-0.32	-234
SLAVE	220	147385	109475	7.9	-1	2	52	14	2	0.5	7.60	0.40	320	2.8	0	-2	-19	-4	0	-0.1	-0.05	-0.26	-290
SLAVE	221	147995	107275	7.9	-1	4	71	14	2	0.5	7.43	0.45	310	3.1	0	0	0	-5	-1	-0.1	-0.28	-0.12	-338
SLAVE	222	149115	135715	5.5	-1	4	75	18	3	0.5	7.61	0.90	310	0.7	0	1	9	0	0	-0.1	-0.06	0.44	-221
SLAVE	223	150695	135115	8.2	-1	4	56	20	3	0.5	7.61	0.28	220	3.8	0	-1	-6	2	0	-0.1	-0.07	-0.33	-253
SLAVE	224	152550	106000	2.6	-1	4	48	16	2	0.5	7.50	0.50	270	-1.2	0	-1	-13	0	-1	-0.1	-0.20	-0.28	-204
SLAVE	225	0	0	4.2	0	2	42	14	3	1.0	7.50	0.13	260	0.0	0	0	0	0	0	0.0	0.00	0.00	0
SLAVE	226	149605	102810	6.5	-1	4	68	18	4	1.0	7.68	0.13	240	2.3	0	0	2	0	0	0.2	-0.02	-0.26	-283
SLAVE	227	140990	108155	6.5	-1	2	100	12	3	1.0	7.32	0.13	120	3.0	0	-4	28	-6	0	0.4	-0.56	-1.25	-492
SLAVE	228	141110	107500	1.4	-1	4	118	20	2	1.0	7.42	0.13	300	-2.0	0	-2	46	1	0	0.4	-0.46	-1.25	-312
SLAVE	229	140565	110690	3.8	-1	2	110	22	3	0.5	7.48	0.13	270	0.6	0	-4	35	3	0	0.0	-0.42	-1.32	-271
SLAVE	230	140095	111380	3.4	-1	2	87	18	2	1.0	7.92	0.45	350	0.2	0	-4	12	0	0	0.5	0.01	-1.12	-191
SLAVE	231	136115	109600	4.6	-1	2	58	20	2	2.0	7.47	0.34	500	1.6	0	-5	0	5	0	0.9	-0.34	-1.38	-147
SLAVE	232	134923	110540	2.0	-1	2	73	16	4	1.5	7.81	0.13	880	-0.1	0	-6	21	4	0	0.3	-0.01	-1.39	286
SLAVE	233	135110	111505	1.6	-1	1	64	12	3	1.5	7.92	0.28	900	-0.5	0	-7	12	0	0	0.3	0.09	-1.36	306
SLAVE	234	134945	111520	0.2	-1	2	54	8	2	1.5	8.67	0.13	670	-1.9	0	-6	2	-3	-1	0.3	0.84	-1.39	76
SLAVE	235	134685	111575	1.4	-1	2	54	6	2	1.5	7.60	0.13	380	-0.7	0	-6	2	-5	-1	0.3	-0.22	-1.39	-213
SLAVE	236	134955	113280	2.2	-1	2	157	8	2	1.5	7.20	0.13	1100	0.1	0	-6	102	-4	-1	0.5	-0.67	-1.19	559
SLAVE	237	135650	114225	17.4	-1	2	64	8	3	1.0	8.10	0.13	420	15.2	0	-5	0	-6	0	0.2	0.15	-0.94	-4
SLAVE	238	135100	115160	1.8	9	4	64	16	3	1.0	8.01	0.13	350	-0.3	1	-3	0	1	0	0.2	0.06	-0.94	-74
SLAVE	239	136535	117130	2.8	-1	2	80	14	4	0.5	7.37	0.13	150	0.2	0	-5	12	-3	0	0.0	-0.60	-0.75	-174
SLAVE	240	137550	117030	3.6	-1	2	64	20	2	1.0	7.71	0.13	320	1.0	0	-1	-3	2	-1	0.4	-0.26	-0.75	-61
SLAVE	241	130750	122015	2.4	-1	2	66	16	5	1.0	7.50	0.13	270	0.7	0	-6	11	0	-1	0.2	-0.53	-1.66	-61
SLAVE	242	130295	124780	-0.1	-1	-1	-1	-1	-1	-0.1	7.21	0.13	400	0.0	0	0	0	0	0	0.0	-0.72	-1.32	83
SLAVE	243	132510	115170	1.2	-1	2	62	18	3	0.5	7.50	0.13	350	-0.4	0	-6	0	4	0	-0.1	-0.47	-0.83	-29
SLAVE	244	132953	113630	0.2	-1	2	40	14	4	0.5	7.53	0.13	480	-1.4	0	-6	-14	1	0	-0.3	-0.33	-0.92	2
SLAVE	245	132360	112040	0.2	-1	1	56	18	5	1.5	8.35	0.13	440	-1.4	0	-7	1	5	1	0.6	0.44	-0.92	-37
SLAVE	246	133575	111045	0.4	-1	2	36	14	2	1.0	8.06	0.13	410	-1.4	0	-6	-13	0	-2	0.1	0.18	-1.18	-177
SLAVE	247	132920	138415	0.2	-1	2	64	20	4	1.5	6.95	0.13	430	-1.9	0	-6	12	5	0	0.3	-0.85	-1.41	-300
SLAVE	249	129475	107930	0.0	-1	1	73	30	5	1.0	7.10	0.13	2200	-1.6	0	-7	16	11	0	0.0	-0.63	-1.16	10871
SLAVE	250	126465	111190	1.2	-1	1	66	12	4	0.5	7.61	0.13	530	-0.1	0	-6	5	-2	0	0.0	-0.28	-1.04	18
SLAVE	251	126715	115420	-0.1	-1	-1	-1	-1	-1	-0.1	7.70	0.13	280	0.0	0	0	0	0	0	0.0	-0.23	-0.50	-122
SLAVE	252	125920	115305	1.0	-1	4	73	20	3	1.0	7.90	0.13	330	-0.4	0	-2	8	3	-1	0.3	-0.05	-0.65	-106
SLAVE	253	121750	114475	3.8	-1	2	58	14	4	1.0	7.70	0.13	450	1.7	0	-4	-5	-3	0	0.4	-0.27	-0.70	-14
SLAVE	254	114905	113140	1.6	-1	2	95	18	2	0.5	8.10	0.13	420	-0.1	0	-3	19	0	-1	0.3	0.32	-0.51	-324
SLAVE	255	115425	120255	2.6	-1	8	100	28	4	2.0	7.20	0.13	450	0.9	0	2	23	8	0	1.0	-0.53	-0.64	-361
SLAVE	256	113495	118555	0.6	-1	4	104	16	3	1.5	7.92	0.13	410	-1.2	0	-1	29	-2	0	0.6	-0.15	-0.53	-563
SLAVE	257	112065	118855	0.2	-1	2	77	22	3	1.0	7.65	0.13	740	-1.6	0	-3	2	3	0	0.1	-0.11	-0.53	-233
SLAVE	258	111100	119530	1.4	-1	4	95	20	5	0.5	7.82	0.13	210	-0.3	0	-1	21	1	-1	0.4	0.12	-0.46	-1120
SLAVE	259	110500	118445	0.0	-1	4	56	22	4	1.5	6.70	0.13	2100	-1.6	0	-1	-17	3	0	0.5	-0.99	-0.46	9599
SLAVE	260	108860	123250	0.0	-1	4	60	22	5	1.0	7.71	0.13	20500	-1.7	0	-1	-20	1	1	0.0	-0.01	-0.32	8649
SLAVE	261	106735	119520	1.4	-1	8	150	26	5	2.0	7.68	0.13	10800	-0.4	0	1	67	5	1	0.9	-0.03	-0.42	8825
SLAVE	262	106555	121975	0.4	-1	8	135	28	4	1.0	6.90	0.13	2100	-1.4	0	2	49	6	0	0.0	-0.80	-0.32	1054
SLAVE	263	106750	123625	5.8	-1	10	90	38	5	1.5	8.00	0.13	490	3.6	0	4	3	16	1	0.4	0.25	-0.21	-1314
SLAVE	264	105335	125615	1.2	-1	1	77	20	3	1.7	7.40	0.13	700	-1.2	0	-4	0	0	0	0.0	-0.45	-0.42	-378
SLAVE	265	105350	126115	3.2	-1	2	87	22	5	1.0	8.40	0.13	600	0.7	0	-2	10	3	1	0.1	0.47	-0.42	-267
SLAVE	266	105315	127425	4.4	-1	1	107	20	5	1.0	9.20	0.13	510	1.9	0	-3	30	1	1	0.1	1.27	-0.42	-357
SLAVE	267	104745	127975	1.4	-1	4	56	16	4	1.0	8.03	0.28	530	-1.0	0	0	-20	-2	0	0.1	0.07	-0.39	-337
SLAVE	268	104695	128760	2.0	-1	2	100	20	4	1.0	8.05	0.13	560	-0.4	0	-2	24	1	0	0.1	0.11	-0.43	-237
SLAVE	269	103130	128425	2.4	-1	2	121	20	5	0.5	-0.01	0.13	550	0.0	0	-2	48	1	0	-0.4	0.00	-0.42	-506
SLAVE	270	101635	128765	1.4	-1	4	20	24	5	3.5	6.88	0.13	9070	-0.8	0	0	-48	5	0	2.5	-0.86	-0.42	7707
SLAVE	271	132170	135205	0.0	-1	1	40	18	4	1.5	7.61	0.13	1390	-1.6	0	-4	-17	0	0	0.1	-0.09	-0.42	-158
SLAVE	272	132060	134925	0.0	-1	1	38	20	3	2.0	7.20	0.13	10300	-1.6	0	-4	-19	1	0	0.6	-0.50	-0.42	8751
SLAVE	273	132355	134585	0.2	-1	1	30	20	4	2.5	7.60	0.13	950	-1.5	0	-4	-27	1	0	1.1	-0.10	-0.42	-598
SLAVE	274	132725	104195	1.6	-1	1	46	18	5	2.0	7.73	0.13	930	-0.1	0	-4	-11	0	1	0.6	0.02	-0.42	-618
SLAVE	275	134215	134630	0.7	-1	70	68	26	5	1.0	8.03	0.13	10000	-1.8	0	63	1	7	1	0.0	0.23	-0.39	8816
SLAVE	276	135820	105410	3.4	-1	4	80	20	3	1.5	8.00	0.38	510	0.8	0	-2	13	1	0	0.4	0.23	-0.26	-673
SLAVE	277	136130	105130	2.3	-1	8	80	16	4	0.5	7.70	0.28	450	-1.1	0	2	8	0	0	-0.3	-0.09	-0.38	-186
SLAVE	278	136750	134580	5.5	-1	8	68	20	4	1.0	7.70	0.38	550	2.0	0	2	-3	3	0	0.1	-0.09	-0.28	-86
SLAVE	279	137345	104595	2.2	-1	8	96	20	7	0.5	8.21	0.13	400	-1.2	0	2	24	3	3	-0.3	0.41	-0.41	-236

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY 1978 MASTER DATABANK LISTING

SAMPLE	POSITION		MEASURED										RESIDUAL										
	EAST	NORTH	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO	U-S PPM	CU PPM	PB PPM	ZN PPM	NI PPM	MO PPM	AG PPM	PH	U-W PPB	COND UMHO	
SLAVE	280	136730	103440	1.9	-1	2	73	12	5	1.5	7.92	0.13	270	-1.7	0	-2	1	-4	1	0.6	0.14	-0.22	-429
SLAVE	281	138015	103020	2.5	-1	1	64	12	1	0.5	7.70	0.13	210	-2.0	0	-2	-10	-4	-2	0.1	-0.04	-0.25	-220
SLAVE	282	139280	103040	9.7	-1	4	90	20	5	1.0	7.89	0.38	480	5.1	0	0	15	3	1	0.3	0.14	-0.12	49
SLAVE	283	138670	105475	2.3	-1	6	93	20	5	0.5	7.30	0.13	110	-1.9	0	1	22	4	1	-0.1	-0.44	-0.48	-323
SLAVE	284	140460	105060	4.3	-1	1	48	16	5	0.5	7.50	0.13	280	0.1	0	-2	-19	0	1	-0.1	-0.20	-0.50	-216
SLAVE	285	140390	103390	7.8	-1	2	117	14	5	0.5	7.40	0.13	170	3.0	0	0	45	-2	1	-0.1	-0.29	-0.27	-217
SLAVE	286	140550	103015	6.0	-1	1	56	14	4	0.5	7.70	0.13	270	1.2	0	-1	-15	-2	0	-0.1	0.00	-0.27	-117
SLAVE	287	141495	102520	12.1	-1	2	103	20	6	1.0	7.90	0.13	290	7.3	0	0	31	3	2	0.3	0.20	-0.27	-97
SLAVE	288	141180	103480	1.9	-1	1	48	22	5	0.5	7.70	0.13	390	-2.8	0	-1	-23	-5	1	-0.1	0.00	-0.27	2
SLAVE	289	143505	103610	0.7	-1	1	44	12	2	1.5	7.46	0.13	170	-3.1	0	-1	-23	-5	-1	0.7	-0.21	-0.30	-295
SLAVE	290	143960	104395	1.8	-1	1	66	12	7	1.0	7.53	0.13	-1	-1.7	0	-2	-1	-5	3	0.2	-0.16	-0.44	0
SLAVE	292	142950	107910	4.9	-1	2	66	16	4	1.0	7.59	0.13	390	1.4	0	-3	-7	-3	1	0.3	-0.19	-0.68	-444
SLAVE	293	144130	107905	0.4	-1	6	119	34	2	1.0	7.50	0.38	10000	-3.4	0	0	44	13	-1	0.3	-0.24	-0.38	9140
SLAVE	294	139880	116525	0.2	-1	4	73	24	5	1.5	8.09	0.13	220	-2.4	0	-2	6	6	1	0.8	0.13	-0.76	-117
SLAVE	295	0	0	0.4	0	6	95	28	5	1.5	7.95	0.13	210	0.0	0	0	0	0	0	0.0	0.00	0.00	0
SLAVE	296	136800	110600	-0.1	-1	-1	-1	-1	-1	-0.1	7.20	5.00	24000	0.0	0	0	0	0	0	0.0	-0.60	1.32	3397
SLAVE	297	137375	117980	-0.1	-1	-1	-1	-1	-1	-0.1	-0.01	1.38	450	0.0	0	0	0	0	0	0.0	0.00	0.37	125
SLAVE	298	137100	118160	-0.1	-1	-1	-1	-1	-1	-0.1	-0.01	2.20	-1	0.0	0	0	0	0	0	0.0	0.00	1.36	0
SLAVE	299	136485	118455	-0.1	-1	-1	-1	-1	-1	-0.1	-0.01	0.13	320	0.0	0	0	0	0	0	0.0	0.00	-0.58	-5
SLAVE	399	125145	127620	-0.1	-1	-1	-1	-1	-1	-0.1	-0.01	0.13	230	0.0	0	0	0	0	0	0.0	0.00	-1.11	-93
SLAVE	300	124890	127550	-0.1	-1	-1	-1	-1	-1	-0.1	-0.01	0.13	320	0.0	0	0	0	0	0	0.0	0.00	-1.11	-3
SLAVE	379	132200	118160	-0.1	-1	-1	50	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	0	0	0	0.0	0.00	0.00	0
SLAVE	380	130940	118160	-0.1	-1	-1	22	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-19	0	0	0.0	0.00	0.00	0
SLAVE	381	129075	113785	-0.1	-1	-1	18	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-33	0	0	0.0	0.00	0.00	0
SLAVE	382	125190	117080	-0.1	-1	-1	50	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-10	0	0	0.0	0.00	0.00	0
SLAVE	383	125115	119530	-0.1	-1	-1	56	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-1	0	0	0.0	0.00	0.00	0
SLAVE	384	125830	121095	-0.1	-1	-1	20	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-42	0	0	0.0	0.00	0.00	0
SLAVE	385	124510	123930	-0.1	-1	-1	50	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-20	0	0	0.0	0.00	0.00	0
SLAVE	386	125410	124620	-0.1	-1	-1	28	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-47	0	0	0.0	0.00	0.00	0
SLAVE	387	125075	124965	-0.1	-1	-1	44	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-31	0	0	0.0	0.00	0.00	0
SLAVE	388	125370	125360	-0.1	-1	-1	40	-1	-1	-0.1	-0.01	0.13	-1	0.0	0	0	-35	0	0	0.0	0.00	0.00	0
SLAVE	38	124835	124325	1.4	16	15	340	23	13	0.8	8.50	0.13	250	-0.2	6	4	264	5	6	0.2	0.42	-1.63	-83
SLAVE	58	128995	112525	2.1	8	8	54	15	4	0.5	8.00	0.13	450	-0.7	0	0	-3	1	0	-0.1	0.05	-0.80	27
SLAVE	78	129790	109910	0.3	6	16	36	11	6	1.5	8.50	0.13	620	1.5	-2	6	-22	-5	1	0.5	0.65	0.00	-381
SLAVE	98	134830	112795	0.5	6	10	34	10	4	1.0	8.00	0.13	350	-1.5	0	1	-20	-2	0	0.0	0.12	-1.38	-190
SLAVE	103	135100	115160	3.0	9	8	58	15	2	0.5	8.20	0.13	270	0.8	1	0	-5	0	-1	-0.2	0.25	-1.19	-154
SLAVE	118	137930	115215	3.2	12	8	66	19	1	0.5	7.90	0.13	230	0.6	3	0	2	3	-1	-0.1	-0.01	-1.18	-203
SLAVE	148	140270	111985	1.6	8	6	68	13	0	0.2	-0.01	0.13	-1	-1.5	-1	0	-6	-5	-1	-0.2	0.00	0.00	0
SLAVE	-99	-999	-999	0.0	0	0	0	0	0	0.0	0.00	0.13	0	0.0	0	0	0	0	0	0.0	0.00	0.00	0

MARLINE SLAVE PROJECT GEOCHEMICAL SURVEY 1978 MASTER DATABANK LISTING

SAMPLE	POSITION		MEASURED											RESIDUAL								
	EAST	NJRTN	U-S	CU	PB	ZN	NI	MO	AG	PH	U-W	COND	U-S	CU	PB	ZN	NI	MO	AG	PH	U-W	COND
			PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	UMHO	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	UMHO
SLAVE 280	136730	103440	1.9	-1	2	73	12	5	1.5	7.92	0.13	270	-1.7	0	-2	1	-4	1	0.6	0.14	-0.22	-429
SLAVE 281	138315	103020	2.5	-1	1	64	12	1	0.5	7.70	0.13	210	-2.0	0	-2	-10	-4	-2	0.1	0.04	-0.25	-220
SLAVE 282	139280	103040	9.7	-1	4	90	20	5	1.0	7.89	0.38	480	5.1	0	0	15	3	1	0.3	0.14	-0.12	49
SLAVE 283	138670	105475	2.3	-1	6	93	20	5	0.5	7.30	0.13	110	-1.9	0	1	22	4	1	0.1	0.44	-0.48	-323
SLAVE 284	140460	105060	4.3	-1	1	48	16	5	0.5	7.50	0.13	280	0.1	0	-2	-19	0	1	0.1	0.20	-0.50	-216
SLAVE 285	140390	103390	7.8	-1	2	117	14	5	0.5	7.40	0.13	170	3.0	0	0	45	-2	1	0.1	0.29	-0.27	-217
SLAVE 286	140550	103015	6.0	-1	1	56	14	4	0.5	7.70	0.13	270	1.2	0	-1	-15	-2	0	0.1	0.00	-0.27	-117
SLAVE 287	141495	102520	12.1	-1	2	103	20	6	1.0	7.90	0.13	290	7.3	0	0	31	3	2	0.3	0.20	-0.27	-97
SLAVE 288	141180	103480	1.9	-1	1	48	22	5	0.5	7.70	0.13	390	-2.8	0	-1	-23	5	1	0.1	0.00	-0.27	2
SLAVE 289	143505	103610	0.7	-1	1	44	12	2	1.5	7.46	0.13	170	-3.1	0	-1	-23	-5	-1	0.7	0.21	-0.30	-295
SLAVE 290	143960	104395	1.8	-1	1	66	12	7	1.0	7.53	0.13	-1	-1.7	0	-2	-1	-5	3	0.2	0.16	-0.44	0
SLAVE 292	142950	107910	4.9	-1	2	66	16	4	1.0	7.59	0.13	390	-1.4	0	-3	-7	-3	1	0.3	0.19	-0.68	-444
SLAVE 293	144130	107905	0.4	-1	6	119	34	2	1.0	7.50	0.38	10000	-3.4	0	0	44	13	-1	0.3	0.24	-0.38	9140
SLAVE 294	139880	116525	0.2	-1	4	73	24	5	1.5	8.09	0.13	220	-2.4	0	-2	6	6	1	0.8	0.13	-0.76	-117
SLAVE 295	0	0	0.4	0	6	95	28	5	1.5	7.95	0.13	210	0.0	0	0	0	0	0	0.0	0.00	0.00	0
SLAVE 296	136800	110600	-0.1	-1	-1	-1	-1	-1	-0.1	7.20	15.00	24000	0.0	0	0	0	0	0	0.0	0.60	0.13	1223397
SLAVE 297	137375	117980	-0.1	-1	-1	-1	-1	-1	-0.1	7.90	1.38	450	0.0	0	0	0	0	0	0.0	0.00	0.37	125
SLAVE 298	137100	118160	-0.1	-1	-1	-1	-1	-1	-0.1	0.01	2.20	-1	0.0	0	0	0	0	0	0.0	0.00	1.36	0
SLAVE 299	136485	118455	-0.1	-1	-1	-1	-1	-1	-0.1	0.01	0.13	320	0.0	0	0	0	0	0	0.0	0.00	-0.58	-5
SLAVE 399	125145	127620	-0.1	-1	-1	-1	-1	-1	-0.1	0.01	0.13	230	0.0	0	0	0	0	0	0.0	0.00	-1.11	-93
SLAVE 300	124890	127550	-0.1	-1	-1	-1	-1	-1	-0.1	0.01	0.13	320	0.0	0	0	0	0	0	0.0	0.00	-1.11	-3
SLAVE 379	132200	118160	-0.1	-1	-1	50	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	0	0	0	0.0	0.00	0.00	0
SLAVE 380	130940	118160	-0.1	-1	-1	22	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-19	0	0	0.0	0.00	0.00	0
SLAVE 381	129075	116785	-0.1	-1	-1	18	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-33	0	0	0.0	0.00	0.00	0
SLAVE 382	125190	117080	-0.1	-1	-1	50	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-10	0	0	0.0	0.00	0.00	0
SLAVE 383	125115	119530	-0.1	-1	-1	56	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-1	0	0	0.0	0.00	0.00	0
SLAVE 384	125830	121095	-0.1	-1	-1	20	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-42	0	0	0.0	0.00	0.00	0
SLAVE 385	124510	123930	-0.1	-1	-1	50	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-20	0	0	0.0	0.00	0.00	0
SLAVE 386	125410	124620	-0.1	-1	-1	28	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-47	0	0	0.0	0.00	0.00	0
SLAVE 387	125075	124965	-0.1	-1	-1	44	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-31	0	0	0.0	0.00	0.00	0
SLAVE 388	125370	125360	-0.1	-1	-1	40	-1	-1	-0.1	0.01	0.13	-1	0.0	0	0	-35	0	0	0.0	0.00	0.00	0
SLAVE 38	124835	124325	1.4	16	15	340	23	13	0.8	8.50	0.13	250	-0.2	6	4	264	5	6	0.2	0.42	-1.63	-83
SLAVE 58	128995	112525	2.1	8	8	54	15	4	0.5	8.00	0.13	450	0.7	0	0	-3	1	0	0.1	0.05	-0.80	27
SLAVE 78	129790	109910	0.3	6	16	36	11	6	1.5	8.50	0.13	620	-1.5	-2	6	-22	-5	1	0.5	0.65	0.00	-381
SLAVE 98	134830	112795	0.5	6	10	34	10	4	1.0	8.00	0.13	350	-1.5	0	1	-20	-2	0	0.0	0.12	-1.38	-190
SLAVE 103	135100	115160	3.0	9	8	58	15	2	0.5	8.20	0.13	270	0.8	1	0	-5	0	-1	0.2	0.25	-1.19	-154
SLAVE 118	137930	115215	3.2	12	8	66	19	1	0.5	7.90	0.13	230	0.6	3	0	2	3	-1	0.1	0.01	-1.18	-203
SLAVE 148	140270	111985	1.6	8	6	68	13	0	0.2	0.01	0.13	-1	-1.5	-1	0	-6	-5	-1	0.2	0.00	0.00	0
SLAVE -99	-999	-999	0.0	0	0	0	0	0	0.0	0.00	0.13	0	0.0	0	0	0	0	0	0.0	0.00	0.00	0