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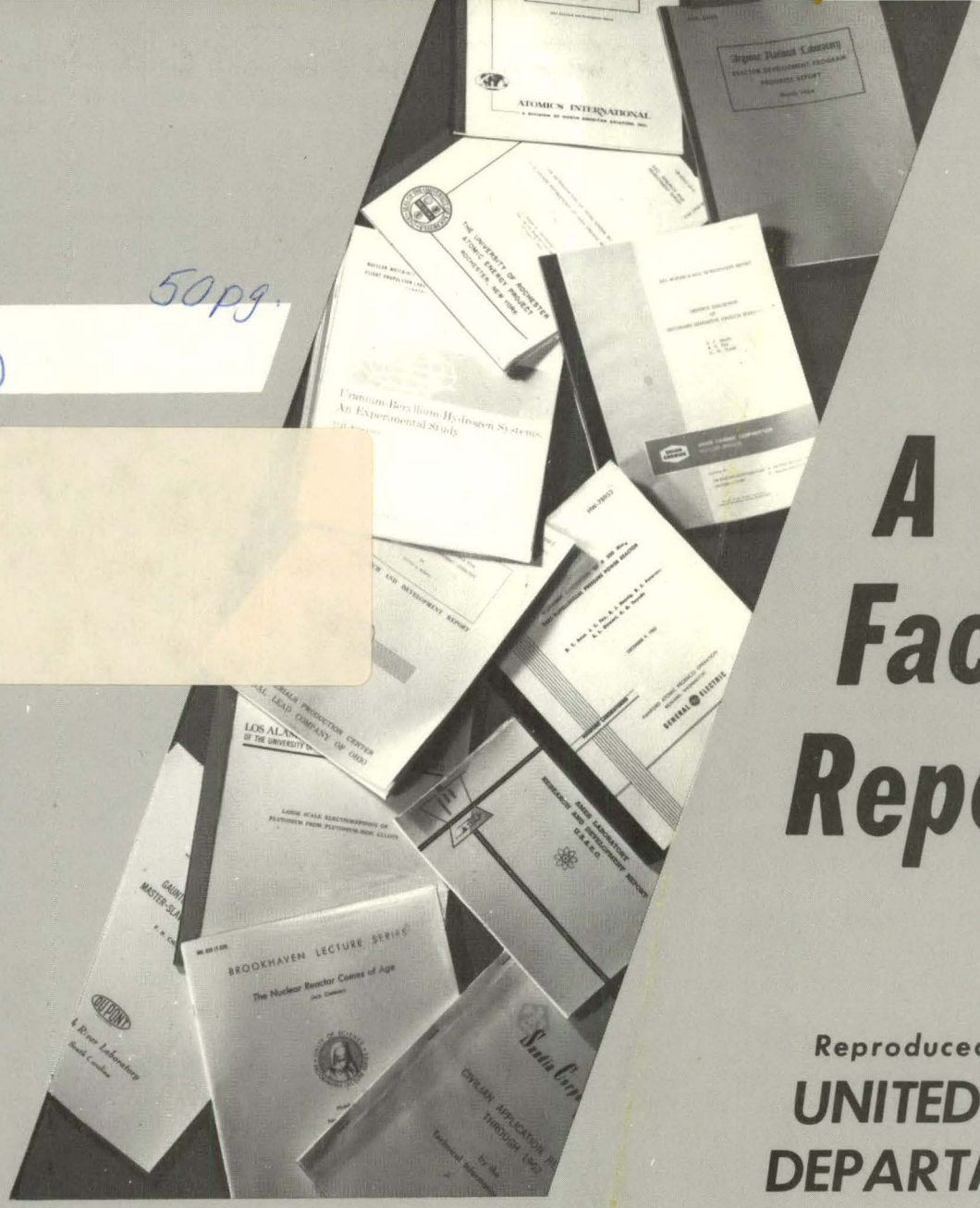

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National Uranium Resource Evaluation

URANIUM HYDROGEOCHEMICAL AND STREAM-SEDIMENT RECONNAISSANCE OF THE POINT HOPE NTMS QUADRANGLE, ALASKA

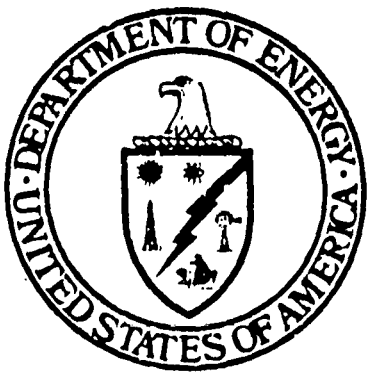
Data Compiled by

Bendix Field Engineering Corporation
Grand Junction, Colorado

Data Collection and Chemical Analysis by

Los Alamos National Laboratory
Los Alamos, New Mexico

April 1982



PREPARED FOR THE U.S. DEPARTMENT OF ENERGY
Assistant Secretary for Nuclear Energy
Grand Junction Area Office, Colorado

START

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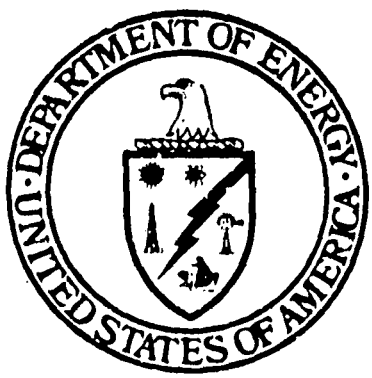

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY
Assistant Secretary for Nuclear Energy
Grand Junction Area Office, Colorado

This report is a result of work performed by Bendix Field Engineering Corporation, Operating Contractor for the U.S. Department of Energy, as part of the National Uranium Resource Evaluation. NURE was a program of the U.S. Department of Energy's Grand Junction, Colorado, Office to acquire and compile geologic and other information with which to assess the magnitude and distribution of uranium resources and to determine areas favorable for the occurrence of uranium in the United States.

GJBX-91(82)

URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE OF THE POINT HOPE NTMS QUADRANGLE, ALASKA

Data Compiled by

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Los Alamos, New Mexico

March 1982

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY
Assistant Secretary for Nuclear Energy
Grand Junction Area Office, Colorado

CONTENTS

ILLUSTRATIONS

INTRODUCTION

This report presents results of a Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) of the Point Hope NTMS quadrangle, Alaska. In addition to this abbreviated data release, more complete data are available to the public in machine-readable form. These machine-readable data, as well as quarterly or semiannual program progress reports containing further information on the HSSR program in general, or on the Los Alamos National Laboratory (LANL) portion of the program in particular, are available from DOE's Technical Library at its Grand Junction Area Office. Inquiries should be directed to:

Technical Library
Bendix Field Engineering Corporation
P.O. Box 1569
Grand Junction, CO 81502-1569
(303) 242-8621, Ext. 279

Presented in this data release are location data, field analyses, and laboratory analyses of several different sample media. For the sake of brevity, many field site observations have not been included in this volume; these data are, however, available on the magnetic tape. Appendix A describes the sample media and summarizes the analytical results for each medium. The data have been subdivided by one of the Los Alamos National Laboratory sorting programs of Zinkl and others (1981a) into stream-sediment samples. For each group which contains a sufficient number of observations, statistical tables, tables of raw data, and 1:1,000,000 scale maps of pertinent elements have been included in this report. Also included are maps showing results of multivariate statistical analyses.

The Point Hope NTMS quadrangle hydrogeochemical reconnaissance was performed by the Los Alamos National Laboratory, under contract to the Grand Junction Area Office of the United States Department of Energy (DOE), as part of the National Uranium Resource Evaluation (NURE) program. Los Alamos National Laboratory was responsible for conducting the HSSR program in the states of New Mexico, Colorado, Wyoming, Montana, and Alaska. This data release was prepared by Bendix Field Engineering Corporation in order to make the data available to members of the public wishing to use the information but having no access to computing facilities.

Information on the field and analytical procedures used by the Los Alamos National Laboratory during sample collection and analysis may be found in any HSSR data release prepared by the Laboratory (see, for example, Planner and others, 1981) and will not be included in this report.

RESULTS

Population statistics for stream sediments are given in Table 1. This table contains statistics such as mean, standard deviation, skewness, and kurtosis for two different populations: the total population and a population consisting of only those analyses that are above the detection limit (ADL) for each element. In addition, data are provided for each variable for the total number of samples possessing analyses, the number of analyses above the detection limit (NADL), the number of analyses below the detection limit (NBDL), and the number of missing analyses (MISS). Also tabulated for each variable are the maximum value, the minimum value considered above detection limit, and the maximum detection limit. Variable detection limits account for the fact that the maximum value of the detection limit is occasionally greater than the minimum value considered above the detection limit.

Maps of elemental concentrations, ratios, factor scores, and residuals were prepared by a computer program which represents data values in their correct latitude-longitude positions by symbols which vary in size and intensity in proportion to the value being plotted (Zinkl and others, 1981b). A map of uranium concentrations in stream sediment is presented as Plate 1. Thorium concentrations in stream sediment samples and thorium-to-uranium ratios of stream sediment samples are plotted in Plates 2 and 3. Locations of stream sediment samples are shown in Plate 4.

In addition to the full-sized plates, several page-sized maps and figures are included to assist in interpretation of the data. A scatter plot of uranium versus thorium in stream sediments is shown in Figure 1. This plot may be used to identify groups of samples which differ significantly from normal crustal Th/U ratios. Deviations from normal ratios may indicate areas showing uranium enrichment or depletion.

When multielement data are provided by LANL, maps of elements considered useful in uranium exploration are included in the data release. Figures 2 and 3 show vanadium in stream sediments and copper in stream sediments, respectively.

Chemical analysis and field data for water samples from this quadrangle were open filed by the DOE Grand Junction Area Office as GJBX-245(81).

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Table 1. Population Statistics for Stream Sediment Data

POINT HOPE STREAM SEDIMENT

VAR		TOTAL	NADL	NADL	MISS	FOR TOTAL ANALYSES: MEAN	STD.DEV.	SKEWNESS	KURTOSIS	FOR ABOVE DETECTION LIMIT ANALYSES: MEAN	STD.DEV.	SKEWNESS	KURTOSIS	MAXIMUM	MINIMUM	DET.LIM.
1	PM	217	217	0	4	7.19	.95	-.16	2.02	7.19	.95	-.16	2.02	10.10	5.30	99999.00
2	MU	216	216	0	5	111.15	84.40	2.15	11.82	111.15	84.40	2.15	11.82	643.00	2.00	99999.00
3	UR	218	218	0	3	8.89	4.74	1.36	6.53	8.89	4.74	1.36	6.53	35.00	1.00	99999.00
4	U	221	221	0	0	2.88	1.04	4.66	41.94	2.88	1.04	4.66	41.94	13.03	.61	99999.00
5	AG	218	0	218	3	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.50	5.00
6	BI	218	3	215	3	2.96	.96	11.61	147.87	6.67	2.36	.71	1.50	10.00	5.00	5.00
7	CD	218	3	215	3	2.56	.62	12.10	159.14	7.00	2.83	.71	1.50	11.00	5.00	5.00
8	CU	218	217	1	3	32.00	25.64	10.77	140.66	32.12	25.63	10.82	141.25	371.00	10.00	10.00
9	NR	218	0	218	3	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	10.00	20.00
10	NI	218	218	0	3	39.16	12.57	1.67	10.15	39.16	12.57	1.67	10.15	121.00	19.00	99999.00
11	PB	218	198	20	3	9.65	12.53	11.61	157.10	10.79	13.13	11.45	146.71	180.00	5.00	5.00
12	SN	218	5	213	3	5.29	2.06	7.50	60.14	17.80	4.92	-.18	1.33	24.00	12.00	10.00
13	W	218	11	207	3	8.13	9.02	5.66	38.19	19.91	9.85	1.21	2.99	32.00	15.00	15.00
14	AS	218	212	6	3	18.07	19.53	11.48	155.35	18.51	19.63	11.58	155.60	243.00	5.00	5.00
15	SE	218	5	213	3	2.69	1.30	11.50	148.83	9.20	5.42	1.47	3.22	20.00	6.00	5.00
16	ZR	218	218	0	3	175.79	49.54	1.13	9.88	175.79	49.54	1.13	9.88	480.00	32.00	99999.00
17	MO	0	0	0	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99999.00
18	BE	0	0	0	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99999.00
19	LI	0	0	0	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99999.00
20	AL	221	221	0	0	97178.25	19126.87	-.78	3.26	97178.25	19126.87	-.78	3.26	88400.00	9283.00	99999.00
21	AU	221	0	221	0	.03	.01	2.90	24.79	0.00	0.00	0.00	0.00	.03	.03	.03
22	BA	221	214	7	0	941.26	1733.06	5.19	32.05	966.99	1755.15	5.08	31.16	14010.00	202.00	176.00
23	CA	221	174	47	0	16344.91	28440.74	3.14	15.92	20615.82	30685.26	2.80	12.85	210300.00	1484.00	892.00
24	CE	221	220	1	0	92.61	14.45	.14	3.65	92.78	14.26	.19	3.64	183.00	14.00	30.00
25	CL	221	14	207	0	71.18	145.79	10.06	120.47	418.79	493.06	2.54	8.70	1921.00	104.00	71.00
26	CO	221	221	0	0	21.91	8.64	1.09	4.16	21.91	8.64	1.09	4.16	60.30	7.50	99999.00
27	CR	221	220	1	0	89.86	36.11	3.82	25.19	90.17	35.89	3.91	25.70	379.00	29.00	41.00
28	CS	221	216	5	0	4.29	1.81	1.44	5.61	4.35	1.78	1.54	5.74	12.10	1.60	2.80
29	DY	221	220	1	0	4.44	.90	.32	4.13	4.45	.90	.32	4.17	8.00	2.00	6.00
30	EU	221	220	1	0	1.05	.31	1.40	6.17	1.05	.31	1.40	6.18	2.30	.40	1.40
31	FE	221	221	0	0	33115.97	9207.99	.06	3.13	33115.97	9207.99	.06	3.13	59070.00	11260.00	99999.00
32	HF	221	220	1	0	6.51	2.23	2.08	14.07	6.52	2.21	2.12	14.31	21.80	1.10	5.10
33	K	221	211	10	0	12912.23	4375.50	-.36	2.94	13395.07	3848.43	-.01	2.50	23180.00	4539.00	11670.00
34	LA	221	218	3	0	27.43	6.66	.83	8.44	27.69	6.29	1.30	9.10	67.00	14.00	23.00
35	LU	221	217	4	0	.34	.08	-.06	3.62	.34	.07	.34	2.81	.50	.20	.50
36	MG	221	217	4	0	9409.61	7781.86	2.57	10.28	9558.22	7774.86	2.59	10.29	53040.00	2741.00	4350.00
37	MN	221	221	0	0	668.95	408.48	4.93	44.79	668.95	408.49	4.93	44.79	4683.00	91.00	99999.00
38	NA	221	221	0	0	10591.69	4613.67	-.54	2.04	10591.69	4613.67	-.54	2.04	18630.00	706.00	99999.00
39	PB	221	144	77	0	51.08	29.18	.20	2.20	68.89	19.10	.67	3.94	146.00	31.00	35.00
40	SB	221	16	205	0	1.11	1.07	4.57	30.06	4.25	1.89	1.76	5.87	10.00	2.00	1.00
41	SC	221	221	0	0	10.91	3.02	1.06	10.08	10.91	3.02	1.06	10.08	30.40	3.40	99999.00
42	SM	221	220	1	0	3.62	.92	.61	5.04	3.63	.90	.69	5.08	7.90	1.60	2.40
43	SR	221	2	219	0	111.96	50.50	3.81	23.85	352.00	86.00	0.00	1.00	438.00	266.00	129.00
44	TA	218	12	206	3	.65	.30	2.55	11.61	1.08	.28	3.02	10.09	2.00	1.00	1.00
45	TB	196	21	175	25	.96	.17	2.77	9.99	1.00	0.00	0.00	0.00	1.00	1.00	1.00
46	TH	221	220	1	0	7.23	2.08	.71	6.61	7.25	2.06	.76	6.74	18.30	2.20	5.10
47	TI	218	218	0	3	3729.71	899.15	-.50	3.00	3729.71	899.15	-.50	3.00	5775.00	1066.00	99999.00
48	V	221	220	1	0	121.47	56.87	6.22	64.37	121.98	56.59	6.38	66.10	737.00	37.00	19.00
49	YB	221	194	27	0	3.48	1.24	-.56	3.38	3.82	.98	.29	4.09	7.10	1.60	2.10
50	ZN	221	135	86	0	91.38	74.89	1.02	3.94	135.18	64.20	1.17	4.75	399.00	26.00	98.00
51	TU	220	220	0	-1	2.65	.76	-.69	2.85	2.65	.76	-.69	2.85	4.08	.61	99999.00

NUMBER OF SAMPLES = 221

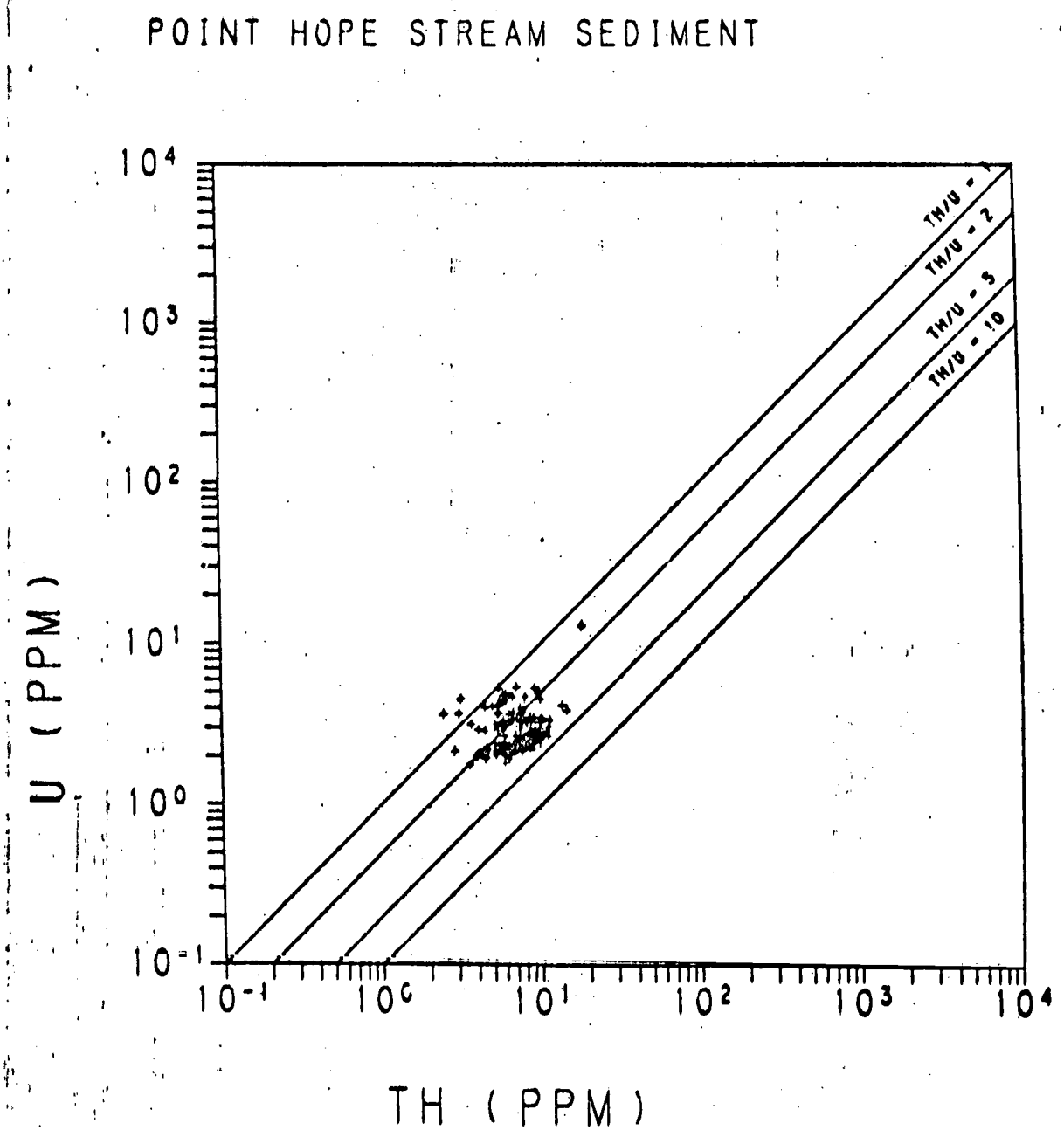


Figure 1. Uranium versus Thorium, Stream Sediments

POINT HOPE STREAM SEDIMENT - VANADIUM (PPM)

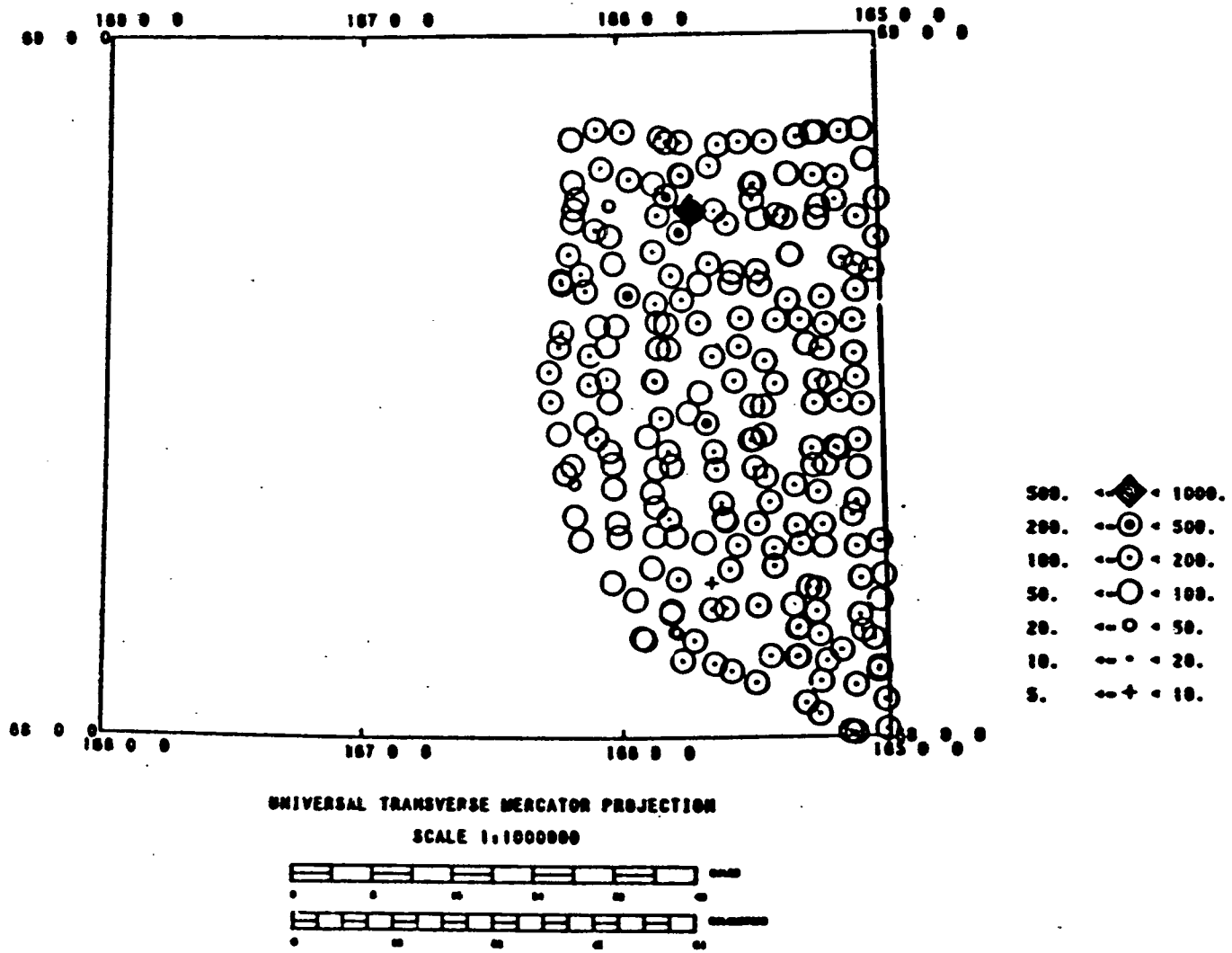


Figure 2. Vanadium (ppm) in Stream Sediments

POINT HOPE STREAM SEDIMENT - COPPER (PPM)

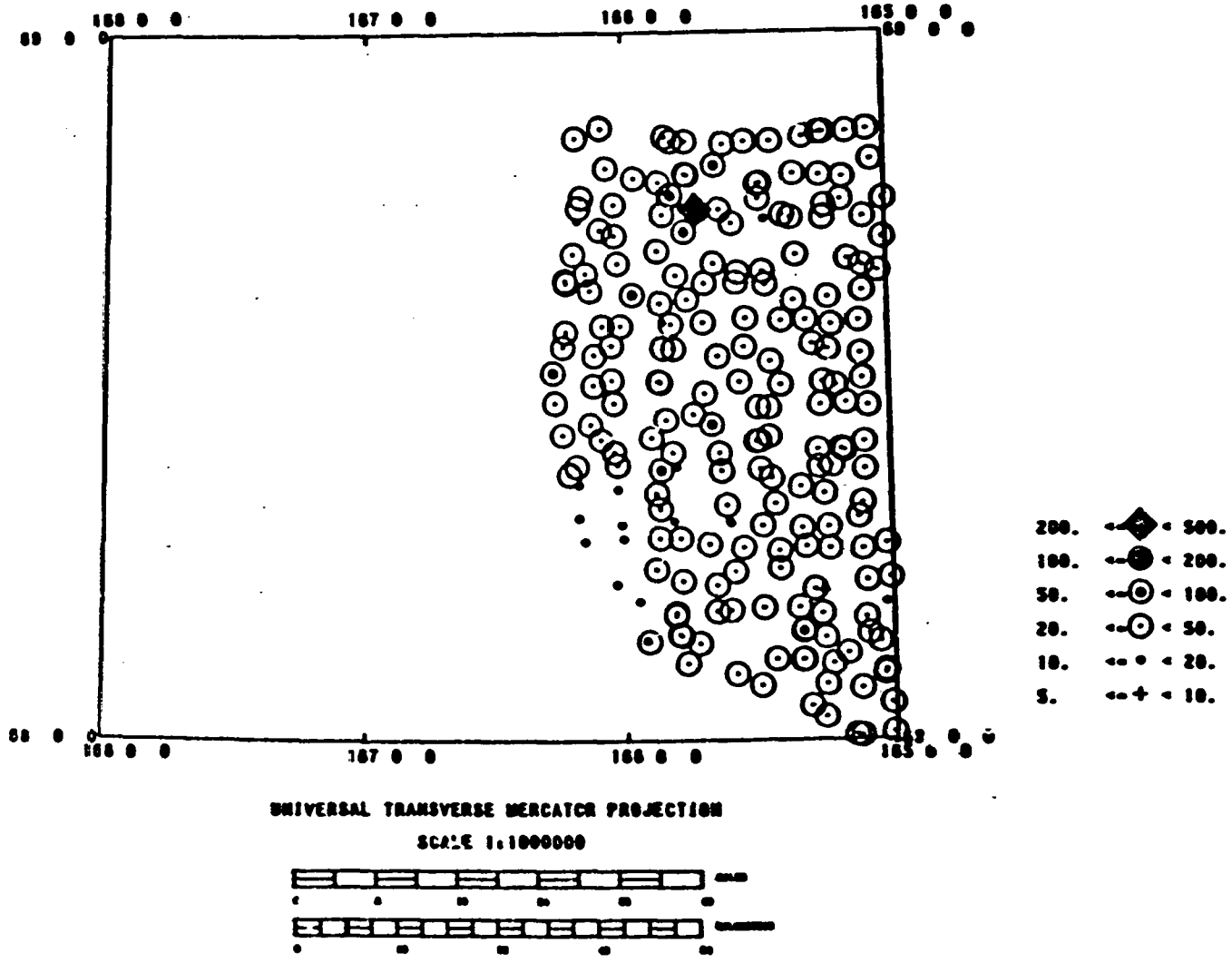


Figure 3. Copper (ppm) in Stream Sediments

MULTIVARIATE STATISTICAL ANALYSES

Stream-sediment analyses were edited by the FACEDT computer program (Shettel and others, 1980) in preparation for multivariate statistical analyses, by eliminating samples and variables with insufficient data. Information contained in the stream-sediment and lake-sediment data sets before and after editing is shown in Tables 2 and 3. The edited data sets are logarithmically transformed prior to the application of statistical methods.

R-mode factor analysis (Table 4) was performed on the transformed edited sediment data. R-mode compares variables over the range of samples; Q-mode compares samples using the variables. Factor analysis attempts to show the geochemical relationships that exist in the data by reducing the dimensionality of the multivariate observations (i.e., by grouping variables that are highly correlated into "factors"). In the sediment data, uranium typically loads with Ce, La, Fe, Mn, V, and Sc, which is characteristic of monazite, zircon, the magnetite-ilmenite suite, and the iron-manganese oxides families of minerals. Results of factor analysis of ground-water data usually show uranium loading with the major ions, confirming the relationship between uranium and specific conductance.

Because of the high degree of correlation between uranium and those elements associated with resistate minerals, step-wise multiple regression (Table 5) was employed to "correct" the raw uranium value for that which is present in heavy or resistate minerals. A map of the regression residuals shows those areas where uranium cannot be explained by the occurrence of resistate or heavy minerals (high positive residuals). This technique enhances anomalous samples by suppressing background populations resulting from resistate or heavy minerals. Factor score and residual maps are shown in Figures 4 through 7.

Table 2. Stream Sediment Data Before Editing

VAR	# MISSING	%	# BDL	%	MEAN	STD DEV
1 PH	4	1.81	0	0.00	7.15	.95
2 MU	5	2.26	0	0.00	111.15	84.40
3 UR	3	1.36	0	0.00	8.99	4.74
4 U	0	0.00	0	0.00	2.88	1.04
5 AG	3	1.36	218	98.64	2.50	0.00
6 BI	3	1.36	215	97.29	2.56	.56
7 CD	3	1.36	215	97.29	2.56	.62
8 CU	3	1.36	1	.45	32.00	25.64
9 NB	3	1.36	218	98.64	10.00	0.00
10 NI	3	1.36	0	0.00	39.16	12.57
11 PB	3	1.36	30	13.57	9.65	12.53
12 SN	3	1.36	213	96.38	5.29	2.06
13 W	3	1.36	207	93.67	8.13	3.02
14 AS	3	1.36	6	2.71	18.07	19.53
15 SE	3	1.36	213	96.38	2.65	1.30
16 ZR	3	1.36	0	0.00	175.79	49.54
17 MO	221	100.00	0	0.00	0.00	0.00
18 BE	221	100.00	0	0.00	0.00	0.00
19 LI	221	100.00	0	0.00	0.00	0.00
20 AL	0	0.00	0	0.00	57178.25	15126.87
21 AU	0	0.00	221	100.00	.03	.01
22 BA	0	0.00	7	3.17	941.26	1733.06
23 CA	0	0.00	47	21.27	16344.91	28440.74
24 CE	0	0.00	1	.45	52.61	14.45
25 CL	0	0.00	207	93.67	71.18	145.75
26 CO	0	0.00	0	0.00	21.91	8.64
27 CR	0	0.00	1	.45	89.86	36.11
28 CS	0	0.00	5	2.26	4.29	1.81
29 DY	0	0.00	1	.45	4.44	.90
30 EU	0	0.00	1	.45	1.09	.31
31 FE	0	0.00	0	0.00	33115.97	9207.99
32 HF	0	0.00	1	.45	6.51	2.23
33 K	0	0.00	10	4.52	12912.23	4375.50
34 LA	0	0.00	3	1.36	27.43	6.66
35 LU	0	0.00	4	1.81	.34	.09
36 MG	0	0.00	4	1.81	9409.61	7781.86
37 MN	0	0.00	0	0.00	668.95	408.49
38 NA	0	0.00	0	0.00	10591.69	4613.67
39 RB	0	0.00	77	34.84	51.08	29.18
40 SR	0	0.00	205	92.76	1.11	1.07
41 SC	0	0.00	0	0.00	10.91	3.02
42 SM	0	0.00	1	.45	3.82	.92
43 SR	0	0.00	219	99.10	111.56	50.50
44 TA	3	1.36	206	93.21	.65	.30
45 TB	25	11.31	175	79.19	.56	.17
46 TH	0	0.00	1	.45	7.23	2.09
47 TI	3	1.36	0	0.00	3729.71	899.15
48 V	0	0.00	1	.45	121.47	56.87
49 YB	0	0.00	27	12.22	3.48	1.24
50 ZN	0	0.00	86	38.91	91.39	74.89
51 TU	1	.45	0	0.00	2.65	.76

TOTAL NUMBER OF SAMPLES = 221

Table 3. Stream Sediment Data After Editing

POINT HOPE STREAM SEDIMENT

VAR	# MISSING	%	# BDL	%	MEAN	STD DEV
1 PH	0	0.00	0	0.00	7.16	.95
2 MU	0	0.00	0	0.00	109.71	75.47
3 UR	0	0.00	0	0.00	5.66	4.28
4 U	0	0.00	0	0.00	2.89	1.04
5 CU	0	0.00	1	.48	32.30	26.17
6 NI	0	0.00	0	0.00	39.32	12.53
7 PB	0	0.00	26	12.50	8.95	4.81
8 AS	0	0.00	3	1.44	18.29	19.86
9 ZR	0	0.00	0	0.00	179.32	46.43
10 AL	0	0.00	0	0.00	58462.84	13610.89
11 BA	0	0.00	4	1.92	950.90	1761.91
12 CA	0	0.00	43	20.67	14641.68	23967.19
13 CE	0	0.00	0	0.00	53.65	13.72
14 CO	0	0.00	0	0.00	22.10	8.57
15 CR	0	0.00	0	0.00	90.43	34.22
16 CS	0	0.00	3	1.44	4.35	1.82
17 DY	0	0.00	0	0.00	4.48	.88
18 EU	0	0.00	0	0.00	1.07	.30
19 FE	0	0.00	0	0.00	33448.65	8664.49
20 HF	0	0.00	0	0.00	6.62	2.06
21 K	0	0.00	6	2.88	13221.04	4121.75
22 LA	0	0.00	1	.48	27.86	6.40
23 LU	0	0.00	1	.48	.34	.08
24 MG	0	0.00	2	.96	9222.05	7484.09
25 MN	0	0.00	0	0.00	667.15	400.66
26 NA	0	0.00	0	0.00	10855.05	4463.57
27 RB	0	0.00	68	32.69	52.26	29.08
28 SC	0	0.00	0	0.00	11.11	2.86
29 SM	0	0.00	0	0.00	3.69	.87
30 TH	0	0.00	0	0.00	7.36	1.97
31 TI	0	0.00	0	0.00	3776.39	845.59
32 V	0	0.00	0	0.00	123.85	56.91
33 YB	0	0.00	22	10.58	3.54	1.21
34 ZN	0	0.00	82	39.42	90.00	72.21
35 TU	0	0.00	0	0.00	2.68	.73

TOTAL NUMBER OF SAMPLES = 208

FACTOR ANALYSIS (CASE 2)
POINT HOPE STREAM SEDIMENT
NUMBER OF SAMPLES 200
NUMBER OF VARIABLES 39

Table 4. R-mode Factor Analysis of Stream Sediment Data

CORRELATION COEFFICIENTS

	PH	MN	MO	U	CU	NI	PB	AS	ZR	AL	BA	CA	CE	CO	CR
PH	1.000														
MN	-.003	1.000													
MO	-.386	.004	1.000												
U	.122	.197	-.085	1.000											
CU	.063	.099	-.058	.580	1.000										
NI	-.061	.211	.032	.484	.443	1.000									
PB	-.083	.107	.224	.264	.346	.269	1.000								
AS	-.062	-.006	.141	.140	.950	.192	.149	1.000							
ZR	-.006	-.156	.157	-.295	-.082	-.275	-.045	.282	1.000						
AL	-.120	-.128	.197	-.192	.258	.009	.391	.659	.457	1.000					
BA	.139	.269	-.067	.580	.510	.438	.209	.121	-.161	-.123	1.000				
CA	.196	.407	-.122	.467	.066	.262	.022	-.400	-.479	-.611	.401	1.000			
CE	-.108	-.059	.198	.162	.431	.110	.425	.356	.335	.774	.050	-.331	1.000		
CO	-.046	-.012	.173	.043	.209	.137	.160	.181	-.067	.158	.076	-.183	.257	1.000	
CR	-.046	-.091	.090	-.061	.212	.172	.057	.870	.462	.401	.057	-.186	.315	.102	1.000
CS	.002	.166	.130	.422	.398	.358	.515	.136	-.191	.173	.339	.262	.432	.169	-.029
DY	.009	.143	.097	.481	.394	.298	.268	.311	.103	.394	.234	-.006	.559	.18	.147
EU	.010	.171	.043	.477	.600	.322	.404	.435	.103	.335	.624	.027	.548	.358	.248
FE	-.072	-.092	.206	-.143	.314	.110	.298	.739	.334	.865	-.149	-.360	.722	.248	.392
MF	.035	-.123	.096	-.204	-.009	-.268	-.052	.199	.917	.841	-.055	-.345	.329	.009	.472
K	-.187	.028	.213	.094	.253	.192	.491	.487	.279	.743	.122	-.274	.679	.076	.286
LA	.004	.113	.090	.573	.485	.319	.494	.339	.083	.414	.379	.053	.667	.217	.169
LU	-.051	.006	.073	.426	.372	.310	.249	.214	.138	.224	.232	-.005	.413	.163	.205
MG	.078	.208	-.096	.336	.038	.179	.033	-.261	-.385	-.392	.258	.622	-.143	.091	-.139
MN	.108	.167	.117	.209	.189	.462	.278	.071	-.080	.039	.245	.159	.158	.195	-.064
NA	-.052	-.170	.021	-.608	-.096	-.256	-.081	.377	.530	.573	-.287	-.628	.134	.007	.411
RB	.050	-.009	.110	.153	.291	.203	.367	.344	.073	.498	.847	-.128	.455	-.029	.190
SC	-.039	-.012	.129	.263	.571	.304	.496	.674	.172	.824	.208	-.292	.944	.303	.422
SR	-.050	.036	.162	.384	.505	.217	.476	.507	.171	.613	.199	-.145	.828	.330	.208
TH	-.098	-.033	.234	.227	.429	.102	.477	.561	.264	.760	.053	-.280	.871	.303	.278
TI	-.121	-.178	.157	-.197	.152	-.063	.201	.511	.499	.842	-.195	-.359	.688	.238	.438
V	-.001	.018	.030	.435	.649	.381	.472	.686	.060	.670	.404	-.152	.657	.170	.423
YB	.098	-.003	.036	.197	.127	.191	.195	.102	.161	.188	.027	.032	.264	-.091	.112
ZN	-.102	.087	-.054	.245	.009	.225	-.043	-.253	-.318	-.379	.148	.253	-.209	.311	-.788
TU	-.177	-.181	.259	-.596	-.105	-.295	.187	.356	.449	.777	-.411	-.597	.592	.216	.277

	CS	DY	EU	FE	MF	K	LA	LU	MG	MN	NA	RB	SC	SR	TH
CS	1.000														
DY	.931	1.000													
EU	.396	.469	1.000												
FE	.088	.344	.340	1.000											
MF	-.141	.096	.224	.215	1.000										
K	.411	.437	.411	.630	.198	1.000									
LA	.593	.608	.644	.388	.135	.596	1.000								
LU	.294	.436	.468	.293	.181	.347	.628	1.000							
MG	.227	.073	.051	-.305	-.322	.061	.138	.116	1.000						
MN	.236	.117	.201	.197	-.135	.159	.296	.264	.151	1.000					
NA	-.553	-.219	-.048	.494	.425	.184	-.204	-.114	-.467	-.208	1.000				

Table 4. R-mode Factor Analysis of Stream Sediment Data
(continued)

RB	.404	.400	.213	.444	.041	.531	.414	.261	.002	.126	-.030	1.000			
SC	.454	.589	.622	.805	.152	.743	.699	.486	-.087	.192	.204	.575	1.000		
SR	.615	.642	.585	.554	.179	.641	.750	.520	.005	.198	-.057	.469	.801	1.000	
TH	.526	.609	.931	.701	.240	.709	.685	.462	-.067	.118	.065	.551	.861	.847	1.000
TI	.092	.354	.271	.750	.419	.599	.356	.265	-.331	-.011	.511	.410	.705	.544	.672
V	.427	.497	.648	.637	.050	.658	.639	.438	.013	.148	.160	.491	.882	.647	.667
YB	.257	.279	.138	.213	.138	.209	.311	.325	.111	.335	-.115	.261	.276	.314	.293
ZN	.130	-.015	.063	-.351	-.243	-.253	.012	-.024	.167	.096	-.343	-.270	-.243	-.057	-.209
ZU	-.053	.126	.065	.691	.857	.508	.117	.047	-.318	-.066	.530	.335	.505	.398	.447

	TI	V	YB	ZN	ZU
TI	1.000				
V	.525	1.000			
YB	.155	.151	1.000		
ZN	-.287	-.176	-.126	1.000	
ZU	.709	.210	.095	-.364	1.000

Table 4. R-mode Factor Analysis of Stream Sediment Data
(continued)

	FACTOR				
	1	2	3	4	5
EIGENVALUES	11.20026	6.26970	2.03894	1.74237	1.57993
CPTV	.32001	.49914	.55740	.60718	.65232
ELEMENTS	UNROTATED FACTOR LOADINGS				
PH	-.08443	-.12672	-.35279	.22569	.39057
MU	-.01457	-.36209	-.03149	-.02217	-.00832
UR	.21982	.11122	.38010	-.02413	-.42052
U	.24874	-.84110	-.20319	.07118	.00183
CU	.55102	-.44075	-.33874	-.29370	.08875
NI	.25945	-.56962	-.10291	-.29841	.02210
PB	.52476	-.27439	.28275	-.02402	.02362
AS	.70038	.14847	-.23655	-.35157	.13804
CR	.34531	.59342	-.38736	.41929	-.29490
AL	.84890	.43195	.09119	-.09358	.13251
BA	.18617	-.64403	-.44948	-.13039	-.05943
CA	-.34824	-.72454	-.03037	.18217	.04309
CE	.89166	.05979	.11011	.08342	-.07659
CO	.28764	-.09164	.13663	-.39689	-.53300
CR	.43926	.25711	-.45199	.00480	-.06124
CS	.47904	-.60560	.28557	.18280	-.00836
DY	.62331	-.32309	.03036	.23907	-.02752
EU	.64562	-.37658	-.32837	-.12707	-.24641
FE	.80663	.35533	.07008	-.21239	.14272
HF	.31313	.47376	-.47870	.44789	-.38826
K	.79149	.04199	.19020	.08334	.10974
LA	.73865	-.42648	-.00196	.19276	-.10934
LU	.53113	-.29661	-.13478	.23101	-.20487
MG	-.13665	-.56672	.13726	.19294	.09172
MN	.21444	-.36102	.10383	-.01741	-.06798
NA	.21540	.78562	-.28454	-.25755	.05748
RB	.56836	-.06326	.20708	.14818	.40168
SC	.95843	-.05144	.01293	-.12167	.12457
SM	.85186	-.20856	.13586	.10628	-.10694
TH	.90714	-.00126	.21376	.10937	-.03373
TI	.74473	.46061	.04745	-.00070	-.02805
V	.83078	-.26799	-.18981	-.24736	.22320
YB	.31962	-.14651	.03130	.49206	.05807
ZN	-.25253	-.40820	.11978	-.26143	-.50955
ZU	.55367	.65762	.33588	.03348	-.02932

Table 5. Regression Analysis Results, Stream Sediment

MULTIPLE REGRESSION ANALYSIS

PROBLEM POINT HOPE STREAM SEDIMENT

OBSERVATIONS 208

PROBLEM POINT HOPE STREAM SEDIMENT

STEPWISE REGRESSION CASE 1

DEPENDENT VARIABLE 4

F-LEVEL TO ENTER 5.00000

F-LEVEL TO REMOVE 5.00000

STANDARD ERROR OF Y .26167

STEP NO. 1

ENTERED VARIABLE 16

F-LEVEL	129.84372
STANDARD ERROR OF Y	.20544
MULTIPLE CORRELATION	.62179
R-SQUARED	.38662
DEGREES OF FREEDOM	206
CONSTANT TERM	.44489

VARIABLE	BETA PRIME	BETA	SE(BETA)
16	.62179E+00	.41487E+00	.36408E-01

STEP NO. 2

ENTERED VARIABLE 11

F-LEVEL	68.55079
STANDARD ERROR OF Y	.17929
MULTIPLE CORRELATION	.73507
R-SQUARED	.54033
DEGREES OF FREEDOM	205
CONSTANT TERM	-.31593

VARIABLE	BETA PRIME	BETA	SE(BETA)
11	.41576E+00	.14002E+00	.16911E-01
16	.48045E+00	.32056E+00	.33549E-01

Table 5. Regression Analysis Results, Stream Sediment (continued)

STEP NO. 3

ENTERED VARIABLE 26

F-LEVEL	38.32026
STANDARD ERROR OF Y	.16397
MULTIPLE CORRELATION	.78296
R-SQUARED	.61302
DEGREES OF FREEDOM	204
CONSTANT TERM	1.27752

VARIABLE	BETA PRIME	BETA	SE(BETA)
11	.38001E+00	.12767E+00	.15682E-01
16	.31251E+00	.20851E+00	.35804E-01
26	-.32624E+00	-.14830E+00	.23957E-01

STEP NO. 4

ENTERED VARIABLE 32

F-LEVEL	56.17977
STANDARD ERROR OF Y	.14547
MULTIPLE CORRELATION	.83481
R-SQUARED	.69690
DEGREES OF FREEDOM	203
CONSTANT TERM	1.03050

VARIABLE	BETA PRIME	BETA	SE(BETA)
11	.22773E+00	.76509E-01	.15497E-01
16	.40627E-01	.20851E+00	.35804E-01
26	-.58761E+00	-.26712E+00	.26515E-01
32	.41944E+00	.34896E+00	.46557E-01

STEP NO. 5

ENTERED VARIABLE 10

F-LEVEL	61.03481
STANDARD ERROR OF Y	.12780
MULTIPLE CORRELATION	.87592
R-SQUARED	.76723
DEGREES OF FREEDOM	202
CONSTANT TERM	4.91713

VARIABLE	BETA PRIME	BETA	SE(BETA)
10	-.60696E+00	-.57706E+00	.73844E-01
11	.54706E-01	.18379E-01	.15515E-01
16	.28200E+00	.18816E+00	.40690E-01
26	-.20627E+00	-.93765E-01	.32170E-01
32	.73205E+00	.60904E+00	.52736E-01

Table 5. Regression Analysis Results, Stream Sediment (continued)

STEP NO. 6

REMOVED VARIABLE 11

F-LEVEL	1.41032
STANDARD ERROR OF Y	.12793
MULTIPLE CORRELATION	.87500
R-SQUARED	.76562
DEGREES OF FREEDOM	203
CONSTANT TERM	5.26649

VARIABLE	BETA PRIME	BETA	SE(BETA)
10	-.65110E+00	-.61902E+00	.64879E-01
16	.29378E+00	.19602E+00	.40186E-01
26	-.19744E+00	-.89751E-01	.32023E-01
32	.77730E+00	.64668E+00	.42131E-01

STEP NO. 7

ENTERED VARIABLE 22

F-LEVEL	40.94565
STANDARD ERROR OF Y	.11694
MULTIPLE CORRELATION	.89728
R-SQUARED	.80512
DEGREES OF FREEDOM	202
CONSTANT TERM	5.20818

VARIABLE	BETA PRIME	BETA	SE(BETA)
10	-.74456E+00	-.70788E+00	.60911E-01
16	.24534E+00	.16369E+00	.37079E-01
22	.30151E+00	.34103E+00	.53295E-01
26	-.88915E-01	-.40420E-01	.30270E-01
32	.65053E+00	.54122E+00	.41890E-01

STEP NO. 8

REMOVED VARIABLE 26

F-LEVEL	1.79180
STANDARD ERROR OF Y	.11716
MULTIPLE CORRELATION	.89633
R-SQUARED	.80340
DEGREES OF FREEDOM	203
CONSTANT TERM	5.41069

Table 5. Regression Analysis Results, Stream Sediment
(continued)

VARIABLE	BETA PRIME	BETA	SE(BETA)
10	-.80854E+00	-.76870E+00	.40518E-01
16	.29781E+00	.19870E+00	.26270E-01
22	.31753E+00	.35916E+00	.51639E-01
32	.64653E+00	.53789E+00	.41896E-01

STEP NO. 9

ENTERED VARIABLE 5

F-LEVEL	20.47496
STANDARD ERROR OF Y	.11192
MULTIPLE CORRELATION	.90636
R-SQUARED	.82149
DEGREES OF FREEDOM	202
CONSTANT TERM	5.02328

VARIABLE	BETA PRIME	BETA	SE(BETA)
5	.18842E+00	.12772E+00	.28225E-01
10	-.75110E+00	-.71410E+00	.40542E-01
16	.28289E+00	.18875E+00	.25190E-01
22	.30471E+00	.34465E+00	.49430E-01
32	.50021E+00	.41615E+00	.48222E-01

STEP NO. 10

ENTERED VARIABLE 17

F-LEVEL	17.06656
STANDARD ERROR OF Y	.10772
MULTIPLE CORRELATION	.91404
R-SQUARED	.83546
DEGREES OF FREEDOM	201

CONSTANT TERM 5.21257

VARIABLE	BETA PRIME	BETA	SE(BETA)
5	.17824E+00	.12082E+00	.27217E-01
10	-.77034E+00	-.73239E+00	.39271E-01
16	.24144E+00	.16110E+00	.25152E-01
17	.15772E+00	.20361E+00	.49285E-01
22	.25035E+00	.28317E+00	.49848E-01
32	.49375E+00	.41079E+00	.46431E-01

Table 5. Regression Analysis Results, Stream Sediment
(continued)

STEP NO. 11

ENTERED VARIABLE 8

F-LEVEL	6.63158
STANDARD ERROR OF Y	.10624
MULTIPLE CORRELATION	.91692
R-SQUARED	.84074
DEGREES OF FREEDOM	200
CONSTANT TERM	5.76673

VARIABLE	BETA PRIME	BETA	SE(BETA)
9	.13502E+00	.91519E-01	.29155E-01
8	.11976E+00	.60120E-01	.23346E-01
10	-.82370E+00	-.78312E+00	.43454E-01
16	.25812E+00	.17222E+00	.25180E-01
17	.15455E+00	.19952E+00	.48635E-01
22	.26687E+00	.30185E+00	.49696E-01
32	.45935E+00	.38216E+00	.47122E-01

STEP NO. 12

ENTERED VARIABLE 14

F-LEVEL	7.42820
STANDARD ERROR OF Y	.10457
MULTIPLE CORRELATION	.92004
R-SQUARED	.84647
DEGREES OF FREEDOM	199
CONSTANT TERM	5.81383

VARIABLE	BETA PRIME	BETA	SE(BETA)
9	.14767E+00	.10009E+00	.28849E-01
8	.12774E+00	.64127E-01	.23027E-01
10	-.81996E+00	-.77386E+00	.42906E-01
14	-.79074E-01	-.57152E-01	.20970E-01
16	.26600E+00	.17748E+00	.24860E-01
17	.14666E+00	.18924E+00	.48017E-01
22	.28096E+00	.31779E+00	.49244E-01
32	.44416E+00	.36953E+00	.46614E-01

Table 5. Regression Analysis Results, Stream Sediment (continued)

STEP NO. 13

ENTERED VARIABLE 15

F-LEVEL	5.24487
STANDARD ERROR OF Y	.10347
MULTIPLE CORRELATION	.92219
R-SQUARED	.85044
DEGREES OF FREEDOM	198
CONSTANT TERM	5.91209

VARIABLE	BETA PRIME	BETA	SE(BETA)
5	.14571E+00	.98767E-01	.29572E-01
8	.12914E+00	.64825E-01	.22797E-01
10	-.80343E+00	-.76385E+00	.42690E-01
14	-.75107E-01	-.54285E-01	.20787E-01
15	-.72785E-01	-.70128E-01	.30621E-01
16	.24991E+00	.16675E+00	.25042E-01
17	.14908E+00	.19245E+00	.47533E-01
22	.27601E+00	.31219E+00	.44808E-01
32	.47639E+00	.29634E+00	.47587E-01

STEP NO. 14

ENTERED VARIABLE 9

F-LEVEL	9.79036
STANDARD ERROR OF Y	.10125
MULTIPLE CORRELATION	.92602
R-SQUARED	.85751
DEGREES OF FREEDOM	197
CONSTANT TERM	5.96034

VARIABLE	BETA PRIME	BETA	SE(BETA)
5	.14683E+00	.99526E-01	.29640E-01
9	.10387E+00	.52142E-01	.22664E-01
9	.12463E+00	.12917E+00	.41304E-01
10	-.87440E+00	-.83132E+00	.47008E-01
14	-.56849E-01	-.41088E-01	.20774E-01
15	-.12690E+00	-.12226E+00	.34299E-01
16	.26983E+00	.18003E+00	.24870E-01
17	.13711E+00	.17701E+00	.44774E-01
22	.24300E+00	.27486E+00	.49230E-01
32	.57139E+00	.47538E+00	.52992E-01

Table 5. Regression Analysis Results, Stream Sediment
(continued)

STEP NO. 15

REMOVED VARIABLE 14

F-LEVEL	3.93186
STANDARD ERROR OF Y	.10199
MULTIPLE CORRELATION	.92449
R-SQUARED	.85468
DEGREES OF FREEDOM	198
CONSTANT TERM	5.93909

VARIABLE	BETA PRIME	BETA	SE(BETA)
9	.13819E+00	.93670E-01	.28006E-01
8	.95214E-01	.47796E-01	.22722E-01
9	.14064E+00	.14576E+00	.40739E-01
10	-.88968E+00	-.94585E+00	.46771E-01
15	-.13748E+00	-.13246E+00	.34149E-01
16	.26617E+00	.17760E+00	.25021E-01
17	.14111E+00	.18217E+00	.47043E-01
22	.22894E+00	.25884E+00	.48915E-01
32	.59563E+00	.49559E+00	.52373E-01

STEP NO. 16

REMOVED VARIABLE 8

F-LEVEL	4.44718
STANDARD ERROR OF Y	.10287
MULTIPLE CORRELATION	.92273
R-SQUARED	.85143
DEGREES OF FREEDOM	199
CONSTANT TERM	5.51910

VARIABLE	BETA PRIME	BETA	SE(BETA)
5	.17208E+00	.11664E+00	.26010E-01
9	.15415E+00	.15977E+00	.40536E-01
10	-.85604E+00	-.91387E+00	.44410E-01
15	-.14209E+00	-.13690E+00	.34375E-01
16	.25590E+00	.17074E+00	.25020E-01
17	.14204E+00	.18336E+00	.47443E-01
22	.21291E+00	.24082E+00	.48572E-01
32	.53162E+00	.52549E+00	.50833E-01

Table 5. Regression Analysis Results, Stream Sediment
(continued)

STEP NO. 17

ENTERED VARIABLE 20

F-LEVEL	5.36627
STANDARD ERROR OF Y	.10176
MULTIPLE CORRELATION	.92485
R-SQUARED	.85535
DEGREES OF FREEDOM	198
CONSTANT TERM	5.06800

VARIABLE	BETA PRIME	BETA	SE(BETA)
5	.18590E+00	.12601E+00	.26045E-01
9	.31959E+00	.33122E+00	.8417?E-01
10	-.88132E+00	-.83790E+00	.45331E-01
15	-.12741E+00	-.12276E+00	.3454?E-01
16	.25870E+00	.17261E+00	.24764E-01
17	.13396E+00	.17294E+00	.47146?-01
20	-.17363E+00	-.15901E+00	.68644E-01
22	.23349E+00	.26409E+00	.49087E-01
32	.62177E+00	.51729E+00	.90409E-01

ANALYSIS OF VARIANCE

TERM	SS	DF	MS
TOTAL	.14174E+02	207	
REG	.12124E+02	9	.13471E+01
ERR	.20502E+01	198	.10355E-01

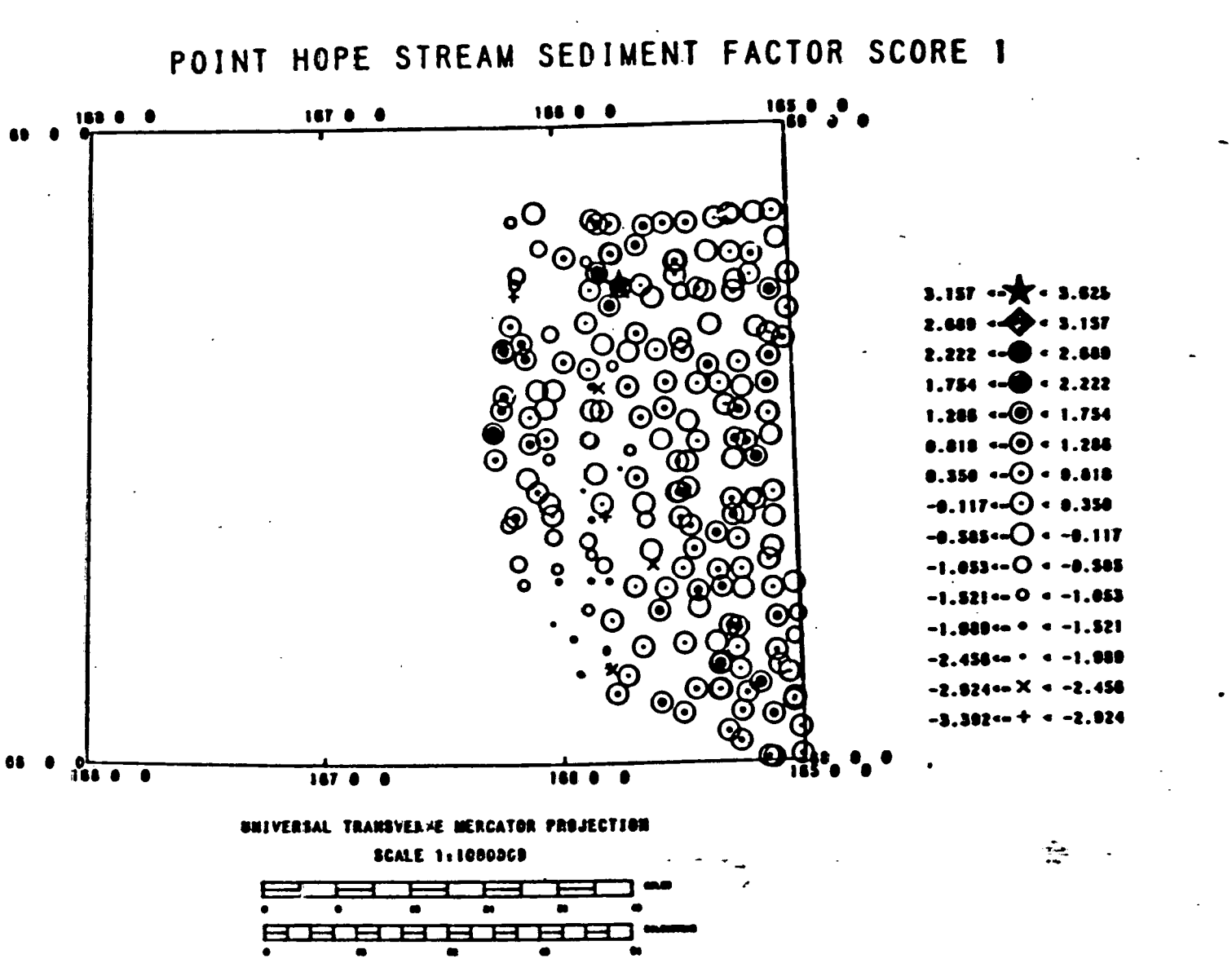
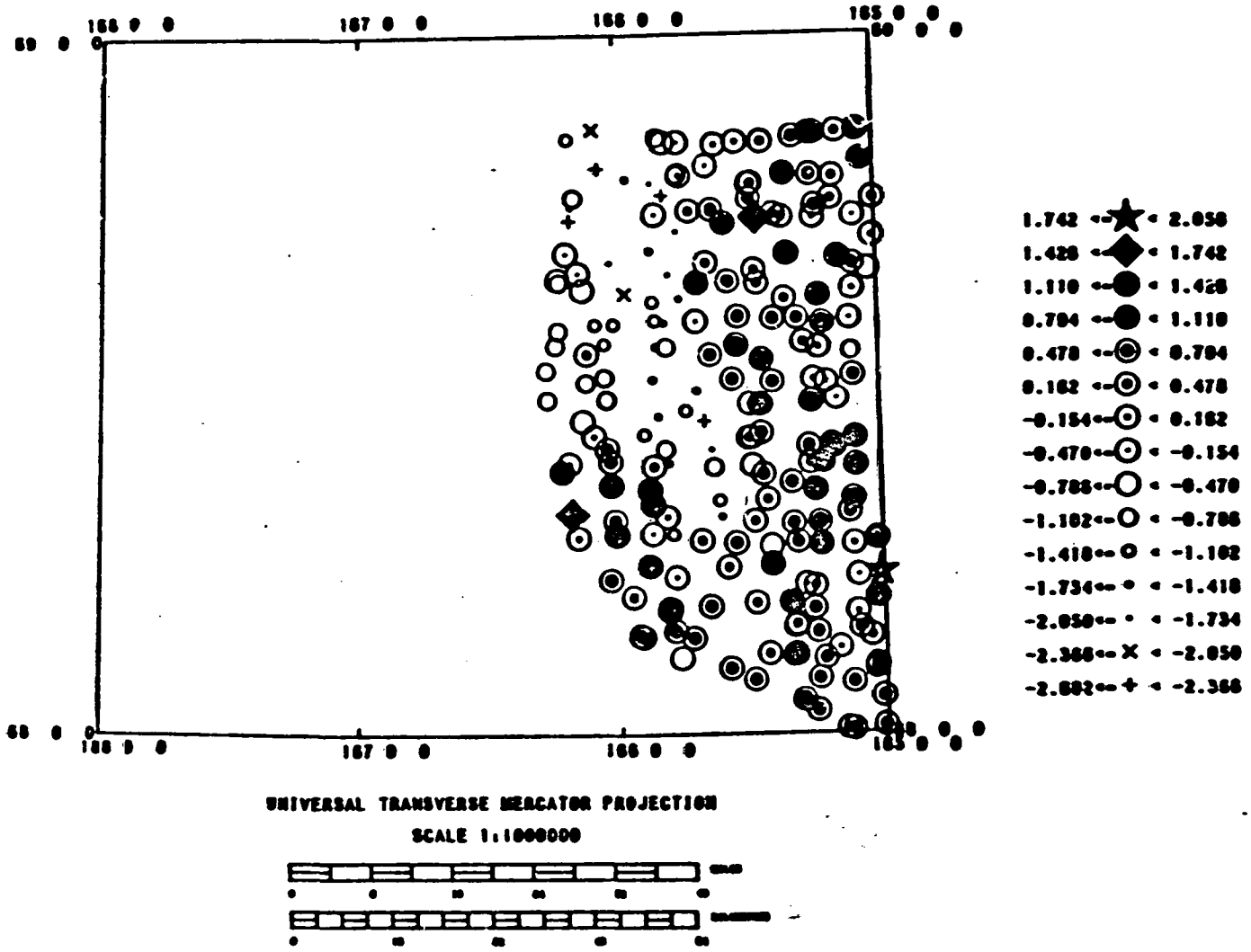


Figure 4. Stream Sediment Factor Score 1

POINT HOPE STREAM SEDIMENT FACTOR SCORE 2



UNIVERSAL TRANSVERSE MERCATOR PROJECTION

SCALE 1:1000000

Figure 5. Stream Sediment Factor Score 2

POINT HOPE STREAM SEDIMENT FACTOR SCORE 3

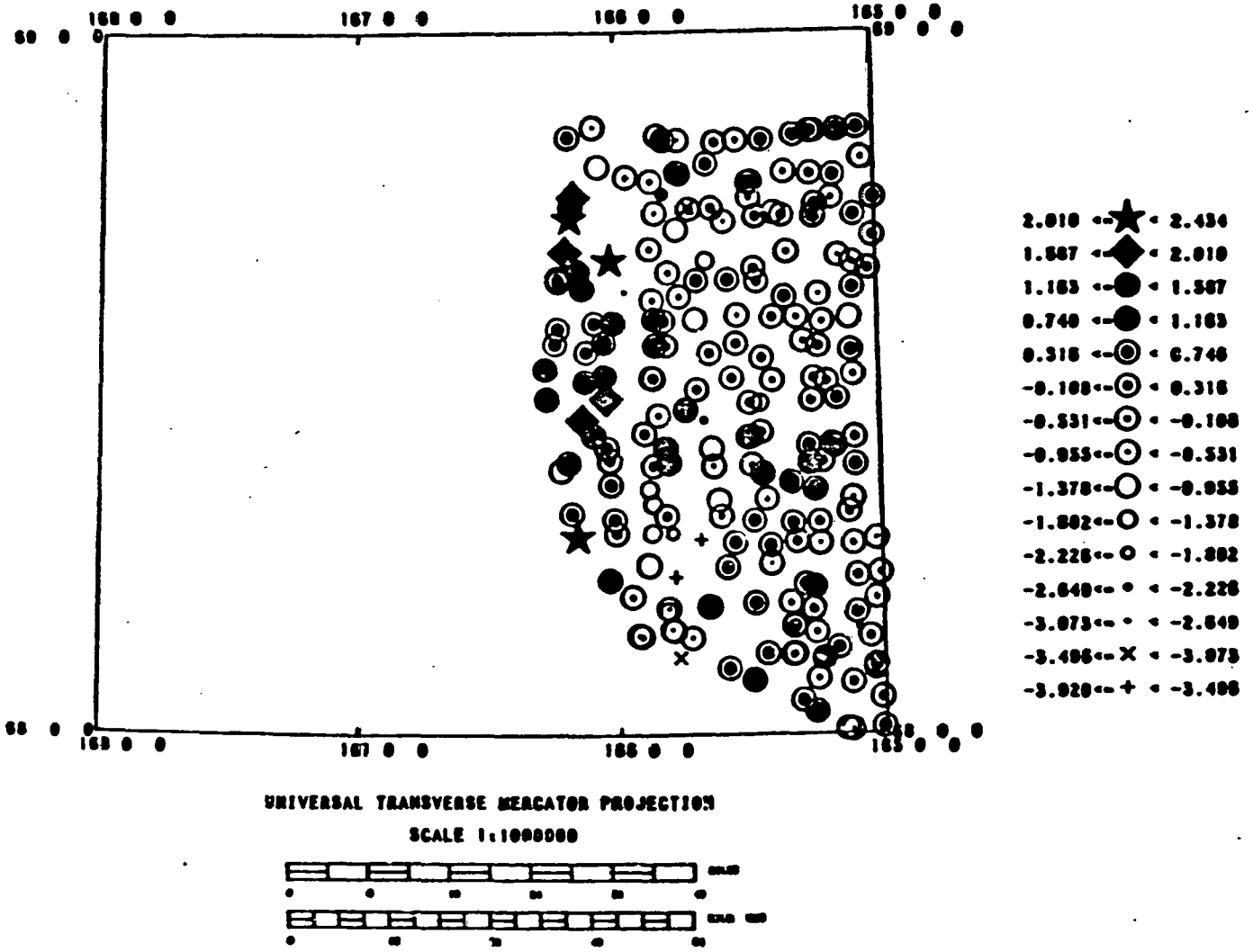


Figure 6. Stream Sediment Factor Score 3

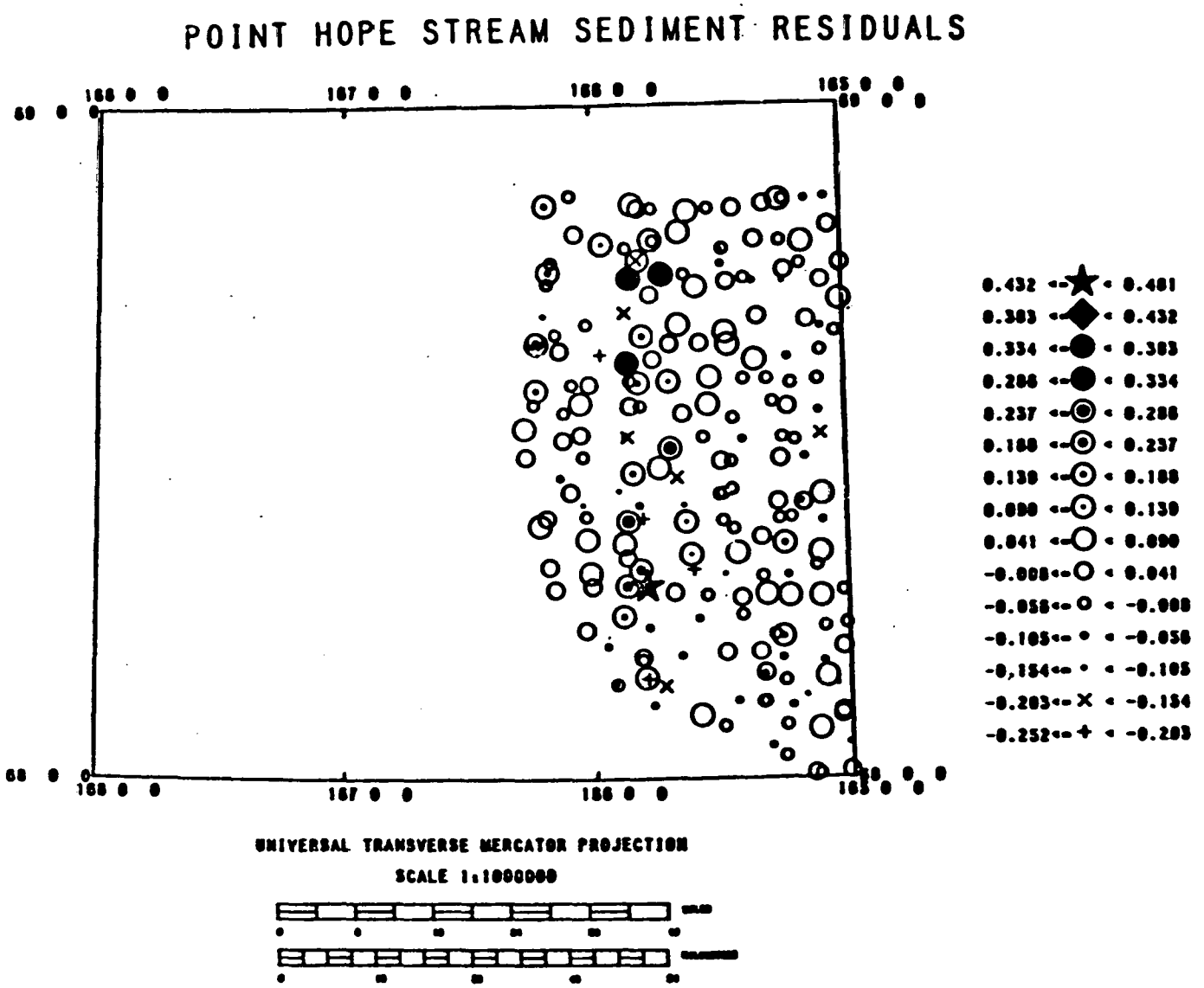


Figure 7. Stream Sediment Residuals

REFERENCES

Arendt, J. W., 1981, Hydrogeochemical and Stream Sediment Reconnaissance Basic Data for Point Hope Quadrangle, Alaska: U.S. Department of Energy Open-File Report GJBX-245(81).

Planner, H. N., Apel, C. T., Fuka, M. A., George, W. E., Hansel, J. M., Hensley, W. K., and Pirtle, J., 1981, Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Release for the Leadville NTMS Quadrangle, Colorado, Including Concentrations of Forty-two Additional Elements: U.S. Department of Energy Open-File Report GJBX-13(81).

Shettel, D. L., Jr., D'Andrea, R. F., Jr., and Zinkl, R. J., 1980, FACEDT: A FORTRAN Program to Process Hydrogeochemical and Stream Sediment Reconnaissance Data for Multivariate Statistical Analysis: U.S. Department of Energy Open-File Report GJBX-246(80).

Zinkl, R. J., D'Andrea, R. F., Jr., and Shettel, D. L., Jr., 1981a, FORTRAN Computer Programs to Read, Sort, and Edit Los Alamos Hydrogeochemical Data: U.S. Department of Energy Open-File Report GJBX-11(81).

———1981b, Symbolic Plotting of Geochemical Exploration Data: U.S. Department of Energy Open-File Report (in preparation).

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Appendix A. Stream Sediment Data

POINT HOPE STREAM SEDIMENT

Appendix A. Stream Sediment Data

SAMPLE NO.	LAT.	LONG.	PH	COND.	SCINT.	URANIUM PPM	SILVER PPM	BISMUTH PPM	CADMIUM PPM	COPPER PPM	NIOBIUM PPM	NICKEL PPM	LEAD PPM	TIN PPM	TUNGSTEN PPM
456486	68.1547	165.3389	8.	25.0	14.	2.84	-5.00	-5.00	-5.00	53.00	-20.00	46.00	22.00	-10.00	21.00
456487	68.1575	165.3342	8.	45.0	14.	2.65	-5.00	-5.00	-5.00	33.00	-20.00	44.00	10.00	-10.00	-15.00
456488	68.1147	165.3379	8.	32.0	4.	2.54	-5.00	-5.00	-5.00	27.00	-20.00	28.00	7.00	-10.00	-15.00
456489	68.1139	165.3453	8.	41.0	4.	2.24	-5.00	-5.00	-5.00	27.00	-20.00	30.00	6.00	-10.00	-15.00
456490	68.1156	165.4417	8.	5.0	4.	2.62	-5.00	-5.00	-5.00	34.00	-20.00	42.00	10.00	-10.00	-15.00
456491	68.1486	165.7936	8.	84.0	6.	1.79	-5.00	-5.00	-5.00	35.00	-20.00	32.00	-5.00	-10.00	-15.00
456492	68.1506	165.8011	8.	66.0	6.	3.69	-5.00	-5.00	-5.00	40.00	-20.00	121.00	-5.00	-10.00	-15.00
456493	68.1772	165.8142	8.	107.0	10.	1.94	-5.00	-5.00	-5.00	21.00	-20.00	26.00	5.00	-10.00	-15.00
456494	68.1808	165.8128	9.	74.0	10.	2.04	-5.00	-5.00	-5.00	23.00	-20.00	26.00	5.00	-10.00	-15.00
456495	68.2256	165.7864	8.	99.0	4.	3.12	-5.00	-5.00	-5.00	43.00	-20.00	62.00	8.00	-10.00	-15.00
456496	68.2867	165.7944	8.	127.0	6.	4.58	-5.00	-5.00	-5.00	30.00	-20.00	49.00	5.00	-10.00	-15.00
456497	68.2778	165.6864	10.	98.0	8.	3.15	-5.00	-5.00	-5.00	24.00	-20.00	42.00	7.00	-10.00	-15.00
456499	68.3117	165.6081	8.	175.0	7.	3.19	-5.00	-5.00	-5.00	19.00	-20.00	34.00	-5.00	-10.00	-15.00
456500	68.3086	165.6028	-9999.	-9999.0	7.	3.12	-5.00	-5.00	-5.00	13.00	-20.00	29.00	11.00	-10.00	-15.00
456501	69.5464	165.1044	9.	12.0	6.	3.39	-5.00	-5.00	-5.00	37.00	-20.00	31.00	7.00	-10.00	-15.00
456502	68.5531	165.2283	9.	189.0	5.	2.74	-5.00	-5.00	-5.00	31.00	-20.00	48.00	10.00	-10.00	-15.00
456503	68.5608	165.2869	8.	157.0	5.	2.81	-5.00	-5.00	-5.00	27.00	-20.00	45.00	6.00	-10.00	-15.00
456504	68.5367	165.4453	8.	246.0	8.	2.18	-5.00	-5.00	-5.00	29.00	-20.00	29.00	8.00	-10.00	-15.00
456505	68.5575	165.5425	8.	97.0	8.	2.44	-5.00	-5.00	-5.00	31.00	-20.00	28.00	9.00	-10.00	-15.00
456506	68.5436	165.6444	8.	166.0	8.	2.53	-5.00	-5.00	-5.00	36.00	-20.00	32.00	12.00	-10.00	-15.00
456507	68.5550	165.8122	8.	183.0	5.	3.47	-5.00	-5.00	-5.00	31.00	-20.00	30.00	10.00	-10.00	-15.00
456508	68.5558	165.8522	8.	114.0	5.	3.56	-5.00	-5.00	-5.00	42.00	-20.00	51.00	11.00	-10.00	-15.00
456509	68.5600	166.0483	9.	37.0	10.	3.32	-5.00	-5.00	-5.00	29.00	-20.00	50.00	16.00	-10.00	-15.00
456510	69.5464	166.1156	9.	142.0	10.	2.45	-5.00	-5.00	-5.00	30.00	-20.00	32.00	11.00	-10.00	-15.00
456511	68.5583	166.2353	8.	173.0	8.	3.40	-5.00	-5.00	-5.00	39.00	-20.00	35.00	11.00	-10.00	-15.00
456512	68.5797	166.2239	7.	30.0	10.	4.60	-5.00	-5.00	-5.00	39.00	-20.00	49.00	-5.00	-10.00	-15.00
456513	68.5878	166.0822	9.	146.0	5.	3.41	-5.00	-5.00	-5.00	26.00	-20.00	28.00	11.00	-10.00	-15.00
456514	68.5878	166.0117	9.	127.0	5.	3.30	-5.00	-5.00	-5.00	25.00	-20.00	28.00	10.00	-10.00	16.00
456515	69.5931	165.8528	9.	83.0	3.	3.39	-5.00	-5.00	-5.00	17.00	-20.00	21.00	6.00	-10.00	-15.00
456516	68.5900	165.8200	9.	71.0	3.	4.06	-5.00	-5.00	-5.00	20.00	-20.00	29.00	-5.00	-10.00	-15.00
456517	68.5917	165.6969	9.	107.0	8.	3.76	-5.00	-5.00	-5.00	43.00	-20.00	38.00	9.00	-10.00	-15.00
456518	68.5978	165.5350	9.	144.0	8.	2.61	-5.00	-5.00	-5.00	34.00	-20.00	42.00	6.00	-10.00	-15.00
456519	68.5947	165.4011	8.	191.0	6.	2.35	-5.00	-5.00	-5.00	24.00	-20.00	24.00	6.00	-10.00	-15.00
456520	68.5950	165.3086	8.	164.0	6.	2.55	-5.00	-5.00	-5.00	27.00	-20.00	31.00	7.00	-10.00	-15.00
456521	68.5881	165.2119	8.	95.0	8.	2.22	-5.00	-5.00	-5.00	25.00	-20.00	37.00	6.00	-10.00	-15.00
456522	68.5933	165.1075	8.	251.0	8.	3.29	-5.00	-5.00	5.00	49.00	-20.00	59.00	11.00	-10.00	-15.00
456523	68.2692	165.4225	7.	404.0	4.	2.90	-5.00	-5.00	-5.00	36.00	-20.00	43.00	8.00	-10.00	-15.00
456524	68.3011	165.3369	8.	20.0	8.	2.62	-5.00	-5.00	-5.00	27.00	-20.00	41.00	12.00	-10.00	-15.00
456525	68.2747	165.3222	8.	106.0	8.	2.80	-5.00	-5.00	-5.00	28.00	-20.00	38.00	10.00	-10.00	-15.00
456526	68.2714	165.2342	8.	111.0	8.	2.28	-5.00	-5.00	-5.00	23.00	-20.00	30.00	8.00	-10.00	-15.00
456527	68.3022	165.2372	6.	61.0	8.	2.27	-5.00	-5.00	-5.00	25.00	-20.00	30.00	8.00	-10.00	-15.00
456528	68.3356	165.1069	8.	85.0	6.	2.19	-5.00	-5.00	-5.00	26.00	-20.00	32.00	8.00	-10.00	-15.00
456529	68.6633	165.0314	8.	265.0	7.	2.73	-5.00	-5.00	-5.00	38.00	-20.00	50.00	6.00	-10.00	-15.00
456530	68.7106	165.0114	8.	345.0	7.	2.62	-5.00	-5.00	-5.00	26.00	-20.00	47.00	8.00	-10.00	-15.00
456531	68.6358	165.0928	8.	101.0	10.	2.51	-5.00	-5.00	-5.00	38.00	-20.00	41.00	12.00	-10.00	-15.00
456532	68.6269	165.2239	8.	71.0	10.	2.36	-5.00	-5.00	-5.00	27.00	-20.00	41.00	-5.00	-10.00	-15.00
456533	69.6233	165.3542	8.	349.0	6.	2.63	-5.00	-5.00	-5.00	26.00	-20.00	39.00	11.00	-10.00	-15.00
456534	68.6456	165.4597	8.	56.0	6.	2.61	-5.00	-5.00	-5.00	32.00	-20.00	31.00	11.00	-10.00	-15.00
456535	68.6486	165.5711	8.	53.0	14.	2.28	-5.00	-5.00	-5.00	24.00	-20.00	32.00	12.00	-10.00	-15.00
456536	68.6472	165.6911	8.	26.0	15.	2.07	-5.00	-5.00	-5.00	22.00	-20.00	26.00	7.00	-10.00	-15.00

SAMPLE NO.	AS PPM	SE PPM	ZR PPM	MO PPM	BE PPM	LI PPM	AL PPM	AU PPM	BA PPM	CA PPM	CE PPM	CL PPM	CO PPM
456486	40.00	-5.00	192.00	-9999.00	-9999.00	-9999.00	88400.00	-.06	501.00	3020.00	88.00	-91.00	26.80
456487	30.00	-5.00	195.00	-9999.00	-9999.00	-9999.00	80660.00	-.07	298.00	2035.00	73.00	-98.00	20.20
456488	16.00	-5.00	266.00	-9999.00	-9999.00	-9999.00	65460.00	-.03	395.00	3275.00	54.00	-80.00	14.70
456489	18.00	-5.00	196.00	-9999.00	-9999.00	-9999.00	61420.00	-.06	416.00	1989.00	59.00	-85.00	29.60
456490	17.00	-5.00	163.00	-9999.00	-9999.00	-9999.00	74590.00	-.06	468.00	-1048.00	60.00	-99.00	27.40
456491	10.00	-5.00	162.00	-9999.00	-9999.00	-9999.00	28360.00	-.05	296.00	15020.00	25.00	-83.00	16.00
456492	14.00	-5.00	99.00	-9999.00	-9999.00	-9999.00	19480.00	-.02	272.00	5231.00	19.00	-89.00	27.50
456493	10.00	-5.00	241.00	-9999.00	-9999.00	-9999.00	42650.00	-.05	1165.00	8695.00	34.00	-85.00	24.50
456494	12.00	-5.00	169.00	-9999.00	-9999.00	-9999.00	43410.00	-.04	1208.00	8859.00	39.00	-90.00	14.30
456495	14.00	-5.00	309.00	-9999.00	-9999.00	-9999.00	47100.00	-.07	2963.00	15220.00	59.00	-103.00	14.40
456496	8.00	-5.00	159.00	-9999.00	-9999.00	-9999.00	32730.00	-.03	976.00	24810.00	29.00	-75.00	19.10
456497	13.00	-5.00	480.00	-9999.00	-9999.00	-9999.00	45140.00	-.06	1936.00	11070.00	48.00	-94.00	29.40
456499	5.00	-5.00	134.00	-9999.00	-9999.00	-9999.00	21070.00	-.05	1191.00	122300.00	30.00	-68.00	24.40
456500	-5.00	-5.00	106.00	-9999.00	-9999.00	-9999.00	27030.00	-.04	492.00	94650.00	27.00	-74.00	13.40
456501	16.00	-5.00	170.00	-9999.00	-9999.00	-9999.00	49520.00	-.07	565.00	26720.00	62.00	-63.00	13.80
456502	30.00	-5.00	167.00	-9999.00	-9999.00	-9999.00	75940.00	-.04	418.00	-1095.00	59.00	-117.00	19.60
456503	17.00	-5.00	219.00	-9999.00	-9999.00	-9999.00	62350.00	-.06	473.00	-1084.00	48.00	-102.00	31.50
456504	13.00	-5.00	204.00	-9999.00	-9999.00	-9999.00	62610.00	-.05	497.00	-1142.00	47.00	-106.00	23.70
456505	17.00	-5.00	187.00	-9999.00	-9999.00	-9999.00	69710.00	-.07	422.00	-958.00	72.00	-97.00	17.70
456506	17.00	-5.00	203.00	-9999.00	-9999.00	-9999.00	68080.00	-.04	513.00	-1166.00	53.00	-118.00	33.70
456507	12.00	-5.00	133.00	-9999.00	-9999.00	-9999.00	54230.00	-.10	1234.00	13190.00	68.00	-87.00	40.80
456508	15.00	-5.00	132.00	-9999.00	-9999.00	-9999.00	61020.00	-.06	1179.00	52680.00	61.00	-94.00	21.90
456509	9.00	-5.00	142.00	-9999.00	-9999.00	-9999.00	41060.00	-.07	642.00	48210.00	57.00	-109.00	18.30
456510	12.00	-5.00	166.00	-9999.00	-9999.00	-9999.00	68890.00	-.04	476.00	3899.00	52.00	-118.00	18.20
456511	11.00	-5.00	198.00	-9999.00	-9999.00	-9999.00	56570.00	-.07	600.00	17200.00	80.00	-73.00	36.40
456512	28.00	-5.00	191.00	-9999.00	-9999.00	-9999.00	64290.00	-.06	646.00	4393.00	70.00	104.00	21.60
456513	10.00	-5.00	164.00	-9999.00	-9999.00	-9999.00	42490.00	-.07	438.00	51390.00	54.00	-77.00	14.20
456514	11.00	-5.00	148.00	-9999.00	-9999.00	-9999.00	47280.00	-.03	534.00	43260.00	56.00	-78.00	15.00
456515	6.00	-5.00	131.00	-9999.00	-9999.00	-9999.00	33370.00	-.07	283.00	70610.00	36.00	-82.00	33.40
456516	6.00	-5.00	102.00	-9999.00	-9999.00	-9999.00	27260.00	-.05	380.00	91870.00	25.00	-75.00	14.00
456517	19.00	-5.00	219.00	-9999.00	-9999.00	-9999.00	69180.00	-.08	1319.00	6157.00	69.00	-104.00	16.60
456518	21.00	-5.00	187.00	-9999.00	-9999.00	-9999.00	71330.00	-.03	652.00	2160.00	52.00	-109.00	16.20
456519	16.00	-5.00	169.00	-9999.00	-9999.00	-9999.00	62310.00	-.08	490.00	-1059.00	53.00	-103.00	40.10
456520	15.00	-5.00	188.00	-9999.00	-9999.00	-9999.00	68110.00	-.06	556.00	-994.00	54.00	-101.00	19.20
456521	10.00	-5.00	182.00	-9999.00	-9999.00	-9999.00	58830.00	-.07	374.00	3054.00	50.00	-110.00	15.60
456522	38.00	-5.00	219.00	-9999.00	-9999.00	-9999.00	64920.00	-.04	464.00	2743.00	56.00	-129.00	28.30
456523	21.00	-5.00	131.00	-9999.00	-9999.00	-9999.00	83030.00	-.09	906.00	12940.00	71.00	-105.00	40.80
456524	20.00	-5.00	204.00	-9999.00	-9999.00	-9999.00	75410.00	-.06	343.00	-804.00	60.00	-93.00	22.90
456525	39.00	-5.00	206.00	-9999.00	-9999.00	-9999.00	73000.00	-.08	348.00	3061.00	68.00	-102.00	17.90
456526	15.00	-5.00	262.00	-9999.00	-9999.00	-9999.00	59740.00	-.03	292.00	3169.00	43.00	-100.00	14.60
456527	19.00	-5.00	184.00	-9999.00	-9999.00	-9999.00	62110.00	-.06	410.00	-886.00	46.00	-87.00	30.00
456528	13.00	-5.00	198.00	-9999.00	-9999.00	-9999.00	62430.00	-.05	432.00	3726.00	46.00	-100.00	19.30
456529	20.00	-5.00	138.00	-9999.00	-9999.00	-9999.00	63460.00	-.08	666.00	42000.00	64.00	-99.00	16.70
456530	18.00	-5.00	172.00	-9999.00	-9999.00	-9999.00	61620.00	-.03	570.00	38280.00	51.00	-95.00	16.50
456531	19.00	-5.00	162.00	-9999.00	-9999.00	-9999.00	68910.00	-.07	558.00	521[illegible]	[illegible].00	-100.00	34.50
456532	23.00	-5.00	201.00	-9999.00	-9999.00	-9999.00	56920.00	-.06	366.00	-9[illegible]	[illegible].00	-109.00	25.90
456533	16.00	-5.00	149.00	-9999.00	-9999.00	-9999.00	76110.00	-.09	580.00	35[illegible]	71.00	-101.00	16.40
456534	14.00	-5.00	179.00	-9999.00	-9999.00	-9999.00	70710.00	-.04	392.00	3469.00	49.00	-111.00	17.30
456535	15.00	-5.00	182.00	-9999.00	-9999.00	-9999.00	65620.00	-.06	467.00	-1066.00	60.00	-99.00	31.60
456536	15.00	-5.00	178.00	-9999.00	-9999.00	-9999.00	66280.00	-.05	580.00	3922.00	49.00	-103.00	16.40

POINT HOPE STREAM SEDIMENT

PG. THREE - SAMPLE SET 1

SAMPLE NO.	CE PPM	CS PPM	DY PPM	EU PPM	FE PPM	HF PPM	K PPM	LA PPM	LU PPM	MG PPM	MN PPM	NA PPM	RB PPM
456486	90.00	5.40	5.00	1.30	49670.00	6.90	26090.00	33.00	.30	6579.00	867.00	9555.00	95.00
456487	98.00	5.20	4.00	1.20	46120.00	7.90	17750.00	32.00	.50	8355.00	663.00	12040.00	-39.00
456488	107.00	3.40	5.00	1.00	36950.00	9.00	15350.00	23.00	.30	5978.00	347.00	13220.00	50.00
456489	82.00	3.20	4.00	1.10	37410.00	8.20	8674.00	23.00	.30	6312.00	321.00	13960.00	-40.00
456490	93.00	5.80	4.00	1.10	42400.00	5.40	14070.00	28.00	.40	8018.00	793.00	10730.00	93.00
456491	76.00	2.00	3.00	.70	16550.00	6.30	-2933.00	14.00	.30	6950.00	574.00	9862.00	-26.00
456492	47.00	2.60	3.00	.50	24650.00	3.00	-4055.00	18.00	.40	-1469.00	1718.00	3820.00	-19.00
456493	116.00	2.70	3.00	1.30	22580.00	9.90	9984.00	17.00	.20	4934.00	448.00	14950.00	-33.00
456494	72.00	2.50	2.00	.80	22250.00	5.80	8447.00	19.00	.20	4137.00	613.00	13850.00	-25.00
456495	162.00	3.20	5.00	1.40	27500.00	13.80	9691.00	27.00	.40	6785.00	837.00	10820.00	-34.00
456496	79.00	2.40	4.00	.90	18590.00	6.10	5741.00	21.00	.40	9500.00	448.00	10180.00	-1[illegible].00
456497	186.00	3.50	5.00	1.80	26980.00	21.80	10600.00	31.00	.30	5520.00	721.00	11880.00	-39.00
456499	61.00	2.90	4.00	.70	13550.00	4.70	5025.00	26.00	.30	53040.00	401.00	2843.00	-25.00
456500	57.00	3.10	4.00	.70	16020.00	3.40	6546.00	25.00	.30	39800.00	549.00	4098.00	-18.00
456501	63.00	7.10	5.00	1.00	31190.00	7.00	13460.00	33.00	.40	12160.00	718.00	2830.00	106.00
456502	85.00	4.90	4.00	1.00	42720.00	7.00	18190.00	31.00	.40	9609.00	1077.00	12710.00	75.00
456503	88.00	3.70	4.00	1.10	32670.00	8.10	13670.00	34.00	.40	6177.00	606.00	16220.00	70.00
456504	67.00	3.30	3.00	.90	30610.00	7.30	19520.00	22.00	.30	5368.00	763.00	15880.00	57.00
456505	81.00	2.80	5.00	.90	39960.00	7.10	15140.00	28.00	.30	5731.00	677.00	13870.00	50.00
456506	92.00	4.40	4.00	1.10	41300.00	7.40	13150.00	28.00	.30	6116.00	1116.00	13800.00	63.00
456507	71.00	8.20	6.00	1.70	29930.00	5.60	9038.00	33.00	.40	4518.00	461.00	9853.00	-42.00
456508	73.00	9.00	5.00	1.00	30850.00	5.20	17590.00	34.00	.20	25770.00	1296.00	4827.00	59.00
456509	69.00	6.90	3.00	1.10	27200.00	5.50	8186.00	26.00	.40	18930.00	1877.00	3570.00	61.00
456510	85.00	3.50	5.00	1.00	37590.00	4.90	15370.00	27.00	.40	5309.00	663.00	14030.00	68.00
456511	81.00	6.70	6.00	1.30	37440.00	9.10	16900.00	39.00	.40	13490.00	845.00	4545.00	96.00
456512	65.00	8.40	6.00	1.10	32170.00	5.90	19040.00	41.00	.40	6367.00	743.00	3502.00	94.00
456513	69.00	6.40	5.00	.90	25400.00	6.80	13220.00	36.00	.40	22480.00	1000.00	2970.00	73.00
456514	66.00	6.40	5.00	.90	27490.00	5.10	17240.00	29.00	.30	17060.00	969.00	3001.00	76.00
456515	68.00	5.80	4.00	.70	20120.00	4.40	6372.00	29.00	.30	31320.00	567.00	4399.00	-32.00
456516	47.00	4.40	4.00	.60	15830.00	3.30	7150.00	21.00	.30	39770.00	652.00	2898.00	-21.00
456517	91 00	4.80	5.00	1.40	34110.00	7.80	17110.00	34.00	.30	6837.00	760.00	13030.00	72.00
456518	83.00	3.90	4.00	1.00	38430.00	7.00	14430.00	28.00	.30	5720.00	689.00	14770.00	47.00
456519	86.00	4.00	5.00	1.20	37420.00	7.40	13370.00	31.00	.30	5409.00	285.00	15230.00	92.00
456520	84.00	3.80	6.00	.90	28650.00	6.10	13780.00	31.00	.30	6745.00	224.00	15130.00	-26.00
456521	87.00	2.90	4.00	.80	33870.00	7.00	8530.00	24.00	.30	6672.00	609.00	16110.00	54.00
456522	101.00	3.70	7.00	1.40	39360.00	8.10	15170.00	28.00	.40	4251.00	1284.00	13500.00	49.00
456523	103.00	6.90	5.00	1.30	42350.00	5.00	17140.00	35.00	.40	7819.00	974.00	7726.00	121.00
456524	91.00	4.90	5.00	.90	41210.00	6.70	16900.00	29.00	.30	8056.00	598.00	11830.00	80.00
456525	87.00	4.80	4.00	1.20	43640.00	7.80	12460.00	29.00	.30	6372.00	614.00	11890.00	71.00
456526	99.00	2.80	4.00	.90	31910.00	9.60	10860.00	24.00	.30	7277.00	423.00	16140.00	43.00
456527	89.00	3.10	4.00	1.10	35690.00	7.20	15800.00	28.00	.40	6494.00	467.00	13910.00	71.00
456528	72.00	2.70	3.00	.80	31200.00	7.50	15110.00	24.00	.30	5876.00	613.00	17200.00	-20.00
456529	84.00	3.70	5.00	1.10	39670.00	5.30	16110.00	28.00	.30	18500.00	672.00	9709.00	79.00
456530	98.00	3.80	4.00	.90	38680.00	6.00	15620.00	25.00	.30	16600.00	650.00	10700.00	74.00
456531	98.00	5.10	5.00	1.10	42300.00	5.70	16680.00	27.00	.50	8405.00	691.00	13210.00	73.00
456532	109.00	3.10	5.00	.90	43560.00	7.50	10740.00	22.00	.30	5543.00	751.00	14790.00	-26.00
456533	83.00	4.00	5.00	1.30	37720.00	6.10	19750.00	37.00	.30	5190.00	223.00	13960.00	98.00
456534	89.00	4.40	4.00	1.00	37860.00	5.80	13560.00	27.00	.40	5473.00	608.00	14280.00	70.00
456535	82.00	3.30	4.00	1.10	35700.00	7.20	14170.00	29.00	.30	3902.00	645.00	16320.00	59.00
456536	64.00	3.10	4.00	.80	28940.00	6.20	13550.00	24.00	.20	5048.00	373.00	18630.00	46.00

SAMPLE NO.	SB PPM	SC PPM	SN PPM	SR PPM	TA PPM	TB PPM	TH PPM	TI PPM	U PPM	V PPM	W PPM	TH/U RATIO
456486	-2.00	14.70	4.50	-219.00	-2.00	-1.00	9.90	4877.00	198.00	4.10	-47.00	3.48400
456487	-2.00	14.40	4.70	-256.00	-1.00	-1.00	8.90	4746.00	164.00	5.10	-48.00	3.35600
456488	-1.00	11.00	3.20	-109.00	-1.00	-1.00	7.60	4682.00	132.00	3.80	69.00	2.90400
456489	-2.00	11.10	3.40	-155.00	-2.00	-1.00	8.50	4560.00	119.00	3.90	197.00	3.78000
456490	-2.00	13.80	4.00	-229.00	-1.00	-1.00	8.50	3493.00	163.00	4.30	-27.00	3.24700
456491	-1.00	4.50	2.20	-226.00	-1.00	-1.00	3.60	2064.00	49.00	3.20	-64.00	2.01200
456492	-1.00	5.30	2.10	-197.00	-1.00	-9999.00	2.50	1320.00	42.00	4.60	248.00	.67900
456493	-1.00	6.40	2.30	-196.00	-2.00	-1.00	4.50	2511.00	67.00	2.40	-83.00	2.32000
456494	-1.00	6.60	2.30	-180.00	-1.00	-9999.00	4.00	2456.00	73.00	3.00	107.00	1.96100
456495	-2.00	10.50	3.10	-287.00	-2.00	-1.00	5.80	3034.00	127.00	2.80	-65.00	1.85900
456496	-1.00	6.40	2.50	-117.00	-1.00	1.00	3.20	2263.00	71.00	3.50	112.00	.69900
456497	-2.00	9.10	2.90	-200.00	-2.00	-1.00	6.10	3214.00	92.00	5.10	-117.00	1.93800
456499	-2.00	5.70	2.90	-121.00	-1.00	-9999.00	3.70	1646.00	67.00	2.80	153.00	1.16000
456500	-1.00	6.00	2.50	-180.00	-1.00	-9999.00	3.90	2328.00	78.00	2.50	151.00	1.25000
456501	-2.00	10.80	4.60	-191.00	-1.00	-1.00	8.10	3185.00	106.00	5.00	95.00	2.38700
456502	-2.00	13.30	3.90	-339.00	-1.00	-1.00	8.70	4032.00	170.00	3.50	75.00	3.17500
456503	-2.00	10.40	3.90	-147.00	-1.00	-1.00	7.60	3728.00	96.00	4.80	106.00	3.28900
456504	-1.00	9.30	3.30	-215.00	-1.00	-1.00	6.20	3975.00	105.00	2.90	-22.00	2.84100
456505	-2.00	11.80	3.40	-201.00	1.00	-1.00	7.60	4260.00	113.00	4.00	-29.00	3.11500
456506	-1.00	12.70	4.00	-345.00	-1.00	1.00	7.40	3900.00	117.00	3.80	-30.00	2.92400
456507	-3.00	11.70	4.60	-163.00	-2.00	-1.00	9.50	4064.00	119.00	-2.70	180.00	2.45100
456508	-2.00	12.10	4.40	-273.00	-1.00	-1.00	8.70	2869.00	128.00	4.00	116.00	2.44200
456509	-2.00	9.90	3.90	-334.00	-1.00	-1.00	7.50	2829.00	89.00	5.20	134.00	2.25700
456510	-1.00	11.80	3.60	-305.00	-1.00	-1.00	7.40	4200.00	129.00	4.70	115.00	3.02100
456511	5.00	13.60	5.20	-154.00	1.00	-1.00	11.40	4382.00	108.00	5.40	67.00	3.35600
456512	5.00	12.50	5.20	-215.00	-1.00	-1.00	10.00	4888.00	125.00	4.90	150.00	2.17400
456513	-2.00	9.60	4.70	-229.00	-1.00	-1.00	7.10	2585.00	87.00	3.90	-29.00	2.08300
456514	3.00	9.90	4.00	-306.00	-1.00	-1.00	8.30	2937.00	93.00	3.90	129.00	2.51300
456515	-2.00	7.20	3.20	-191.00	-1.00	-1.00	5.90	2340.00	79.00	4.10	200.00	1.73000
456516	-1.00	5.80	2.60	-207.00	-1.00	-9999.00	4.50	2512.00	72.00	3.20	141.00	1.10900
456517	-2.00	13.40	3.80	-229.00	-1.00	-1.00	7.50	4167.00	159.00	4.20	-33.00	1.99600
456518	-1.00	12.10	3.90	-277.00	-1.00	1.00	7.90	3999.00	123.00	4.50	-14.00	2.99500
456519	-2.00	11.60	4.50	-140.00	-1.00	-1.00	7.80	4829.00	109.00	-1.90	141.00	3.32200
456520	-2.00	10.80	3.70	-181.00	-1.00	-1.00	7.00	4355.00	115.00	3.70	102.00	2.74700
456521	-2.00	10.90	2.80	-221.00	-1.00	-1.00	5.60	4345.00	111.00	3.00	-34.00	2.52500
456522	-1.00	11.70	5.20	-379.00	-1.00	1.00	7.70	3936.00	154.00	4.20	189.00	2.34200
456523	-3.00	16.80	4.50	-209.00	-2.00	-1.00	10.90	4940.00	171.00	4.40	199.00	3.75900
456524	-2.00	13.30	4.00	-197.00	-1.00	-1.00	7.80	4519.00	149.00	3.30	-29.00	2.97600
456525	-2.00	13.60	4.30	-215.00	-1.00	-1.00	9.40	4464.00	144.00	4.20	-36.00	3.35600
456526	-1.00	9.20	3.10	-222.00	-1.00	-9999.00	6.30	3899.00	94.00	3.90	-29.00	2.76200
456527	-2.00	11.50	3.20	-124.00	-1.00	-9999.00	6.80	4061.00	128.00	-1.70	144.00	2.99400
456528	-1.00	9.70	2.80	-194.00	-1.00	-1.00	5.40	4528.00	102.00	3.20	-23.00	2.46300
456529	-2.00	13.90	3.70	-221.00	-1.00	-1.00	7.50	3945.00	140.00	5.40	-35.00	2.74700
456530	-1.00	12.40	3.70	-256.00	-1.00	-9999.00	7.90	3395.00	127.00	3.90	-21.00	3.01200
456531	-2.00	13.50	3.70	-157.00	-1.00	-1.00	9.30	4499.00	127.00	4.80	-21.00	3.70400
456532	-2.00	10.30	3.20	-228.00	-1.00	-1.00	5.50	5775.00	121.00	2.90	107.00	2.33100
456533	-3.00	14.40	4.30	-187.00	-1.00	-1.00	9.20	4316.00	137.00	3.20	-37.00	3.49700
456534	-1.00	12.50	3.80	-278.00	-1.00	1.00	8.70	3804.00	124.00	3.80	-37.00	3.33300
456535	-2.00	10.90	4.00	-145.00	-1.00	-1.00	7.90	3781.00	107.00	3.30	119.00	3.46000
456536	-2.00	9.10	3.40	-182.00	-1.00	-1.00	6.20	3119.00	99.00	1.80	-24.00	2.99400

POINT MOPE STREAM SEDIMENT

SAMPLE NO.	LAT.	LONG.	PH	COND.	SCINT.	URANIUM PPM	SILVER PPM	BISMUTH PPM	CADMIUM PPM	COPPER PPM	MOLYBDENUM PPM	NICKEL PPM	LEAD PPM	TIN PPM	TUNGSTEN PPM
456537	68.6244	165.7594	8.	31.0	6.	4.10	-5.00	-5.00	-5.00	26.00	-20.00	36.00	7.00	-10.00	-15.00
456538	68.6197	165.8614	8.	47.0	6.	5.44	-5.00	-5.00	-5.00	28.00	-20.00	45.00	17.00	-10.00	-15.00
456539	68.6317	165.9672	8.	54.0	3.	4.91	-5.00	-5.00	-5.00	62.00	-20.00	55.00	10.00	-10.00	-15.00
456540	68.6378	166.1297	8.	51.0	15.	3.30	-5.00	-5.00	-5.00	31.00	-20.00	51.00	13.00	-10.00	-15.00
456541	68.6619	166.1458	8.	37.0	21.	3.04	-5.00	-5.00	-5.00	29.00	-20.00	28.00	10.00	-10.00	-15.00
456542	68.6764	166.0217	8.	91.0	10.	3.40	-5.00	-5.00	-5.00	22.00	-20.00	63.00	37.00	-10.00	-15.00
456543	68.6931	165.8683	8.	75.0	7.	3.56	-5.00	-5.00	-5.00	39.00	-20.00	62.00	21.00	-10.00	17.00
456544	68.6589	165.7994	8.	62.0	7.	4.88	-5.00	-5.00	-5.00	34.00	-20.00	56.00	7.00	-10.00	-15.00
456545	68.6753	165.6519	8.	77.0	6.	3.45	-5.00	-5.00	-5.00	38.00	-20.00	30.00	8.00	-10.00	-15.00
456546	68.6628	165.5622	8.	-9999.0	35.	2.48	-5.00	-5.00	-5.00	25.00	-20.00	49.00	9.00	-10.00	-15.00
456547	68.6642	165.4686	8.	87.0	7.	2.69	-5.00	-5.00	-5.00	27.00	-20.00	44.00	9.00	-10.00	-15.00
456548	68.6875	165.3400	8.	88.0	4.	2.20	-5.00	-5.00	-5.00	24.00	-20.00	31.00	5.00	-10.00	-15.00
456549	68.6817	165.1444	8.	37.0	4.	2.27	-5.00	-5.00	-5.00	25.00	-20.00	28.00	7.00	-10.00	-15.00
456550	68.6717	165.0906	6.	104.0	6.	2.36	-5.00	-5.00	-5.00	30.00	-20.00	28.00	6.00	-10.00	-15.00
456551	68.3117	165.8169	8.	68.0	6.	2.96	-5.00	-5.00	-5.00	14.00	-20.00	39.00	5.00	-10.00	-15.00
456552	68.2875	165.8717	8.	115.0	6.	3.19	-5.00	-5.00	-5.00	27.00	-20.00	46.00	-5.00	-10.00	-15.00
456553	68.2422	165.8856	8.	41.0	4.	2.32	-5.00	-5.00	-5.00	20.00	-20.00	26.00	-5.00	-10.00	-15.00
456554	68.1975	165.9503	8.	31.0	6.	2.18	-5.00	-5.00	-5.00	18.00	-20.00	26.00	5.00	-10.00	-15.00
456555	68.1403	165.9156	8.	103.0	6.	1.99	-5.00	-5.00	-5.00	20.00	-20.00	58.00	-5.00	-10.00	-15.00
456556	68.1422	165.9256	8.	85.0	6.	2.09	-5.00	-5.00	-5.00	17.00	-20.00	45.00	7.00	-10.00	-15.00
456557	68.1097	165.7731	8.	212.0	10.	3.69	-5.00	-5.00	-5.00	44.00	-20.00	45.00	8.00	-10.00	-15.00
456558	68.1047	165.6067	8.	14.0	-9999.	2.55	-5.00	5.00	-5.00	29.00	-20.00	39.00	17.00	-10.00	-15.00
456559	68.1081	165.4858	8.	23.0	5.	2.46	-5.00	-5.00	-5.00	23.00	-20.00	41.00	8.00	-10.00	-15.00
456560	68.2439	165.4208	8.	21.0	4.	2.31	-5.00	-5.00	-5.00	36.00	-20.00	28.00	6.00	-10.00	-15.00
456561	68.7644	165.0044	8.	186.0	6.	2.34	-5.00	-5.00	-5.00	33.00	-20.00	39.00	12.00	-10.00	-15.00
456562	68.7400	165.0828	8.	131.0	8.	2.75	-5.00	-5.00	-5.00	42.00	-20.00	46.00	12.00	-10.00	-15.00
456564	68.7647	165.1664	8.	70.0	6.	2.59	-5.00	-5.00	-5.00	29.00	-20.00	40.00	8.00	-10.00	-15.00
456565	68.7556	165.2289	7.	154.0	8.	2.28	-5.00	-5.00	-5.00	21.00	-20.00	32.00	9.00	-10.00	-15.00
456566	68.7389	165.2372	8.	171.0	10.	2.53	-5.00	-5.00	-5.00	31.00	-20.00	28.00	12.00	-10.00	-15.00
456567	68.7400	165.3586	8.	201.0	6.	2.45	-5.00	-5.00	-5.00	27.00	-20.00	34.00	10.00	-10.00	-15.00
456568	68.7442	165.3900	8.	173.0	6.	2.64	-5.00	-5.00	-5.00	33.00	-20.00	40.00	6.00	-10.00	-15.00
456569	68.7392	165.4594	8.	29.0	4.	1.96	-5.00	-5.00	-5.00	17.00	-20.00	22.00	7.00	-10.00	-15.00
456570	68.7661	165.4825	8.	127.0	6.	2.48	-5.00	-5.00	-5.00	24.00	-20.00	27.00	7.00	-10.00	-15.00
456571	68.7322	165.5833	8.	142.0	6.	2.57	-5.00	-5.00	-5.00	22.00	-20.00	25.00	7.00	-10.00	-15.00
456572	68.7511	165.6294	8.	35.0	8.	2.41	-5.00	-5.00	-5.00	23.00	-20.00	23.00	7.00	-10.00	-15.00
456573	68.7497	165.7164	8.	105.0	8.	2.96	-5.00	-5.00	-5.00	22.00	-20.00	36.00	13.00	-10.00	-15.00
456574	68.7517	165.7217	8.	109.0	8.	13.03	-5.00	10.00	-5.00	371.00	-20.00	47.00	18.00	-10.00	-15.00
456575	68.7203	165.7669	8.	106.0	8.	9.11	-5.00	-5.00	-5.00	97.00	-20.00	54.00	15.00	-10.00	-15.00
456576	68.7447	165.8491	8.	94.0	6.	4.04	-5.00	-5.00	-5.00	28.00	-20.00	31.00	8.00	-10.00	-15.00
456577	68.7711	165.8131	6.	105.0	8.	5.38	-5.00	-5.00	-5.00	89.00	-20.00	71.00	19.00	-10.00	-15.00
456578	68.7722	165.9181	8.	140.0	8.	4.51	-5.00	-5.00	-5.00	61.00	-20.00	58.00	12.00	-10.00	-15.00
456579	68.4297	165.8975	8.	88.0	4.	2.94	-5.00	-5.00	-5.00	28.00	-20.00	27.00	10.00	-10.00	-15.00
456580	68.4078	165.8181	8.	510.0	4.	2.76	-5.00	-5.00	-5.00	20.00	-20.00	39.00	10.00	-10.00	-15.00
456581	68.3878	165.8058	8.	206.0	4.	2.17	-5.00	-5.00	-5.00	18.00	-20.00	28.00	5.00	-10.00	-15.00
456582	68.3836	165.8639	8.	53.0	6.	2.73	-5.00	-5.00	-5.00	55.00	-20.00	29.00	-5.00	-10.00	-15.00
456584	68.3503	165.8803	8.	132.0	4.	2.26	-5.00	-5.00	-5.00	21.00	-20.00	23.00	9.00	-10.00	-15.00
456585	68.3289	165.8678	8.	148.0	6.	2.19	-5.00	-5.00	-5.00	23.00	-20.00	26.00	-5.00	-10.00	-15.00
456586	68.3161	165.1231	8.	78.0	10.	2.18	-5.00	-5.00	-5.00	24.00	-20.00	28.00	10.00	-10.00	-15.00
456587	68.2706	165.1100	8.	38.0	7.	2.71	-5.00	-5.00	-5.00	34.00	-20.00	44.00	11.00	-10.00	-15.00
456588	68.2256	165.0961	8.	172.0	7.	2.87	-5.00	-5.00	-5.00	39.00	-20.00	36.00	8.00	-10.00	-15.00

POINT HOPE STREAM SEDIMENT — PG. TWO - SAMPLE SET 2

SAMPLE NO.	AS PPM	SE PPM	ZR PPM	MO PPM	BE PPM	LI PPM	AL PPM	AU PPM	BA PPM	CA PPM	CE PPM	CL PPM	CO PPM
456537	12.00	-5.00	122.00	-9999.00	-9999.00	-9999.00	35610.00	-.07	1157.00	58350.00	40.00	-80.00	11.10
456538	15.00	-5.00	150.00	-9999.00	-9999.00	-9999.00	47180.00	-.04	648.00	19140.00	48.00	-101.00	14.30
456539	17.00	6.00	139.00	-9999.00	-9999.00	-9999.00	46030.00	-.08	9795.00	26040.00	47.00	-76.00	29.10
456540	19.00	-5.00	202.00	-9999.00	-9999.00	-9999.00	65430.00	-.06	476.00	-763.00	76.00	-70.00	35.40
456541	15.00	-5.00	201.00	-9999.00	-9999.00	-9999.00	61770.00	-.09	533.00	5806.00	79.00	-71.00	15.60
456542	-5.00	-5.00	114.00	-9999.00	-9999.00	-9999.00	43390.00	-.04	456.00	42740.00	39.00	-89.00	15.90
456543	8.00	-5.00	164.00	-9999.00	-9999.00	-9999.00	44350.00	-.08	3106.00	18360.00	44.00	-78.00	34.60
456544	13.00	-5.00	120.00	-9999.00	-9999.00	-9999.00	46300.00	-.07	2240.00	37240.00	46.00	-92.00	19.90
456545	18.00	-5.00	259.00	-9999.00	-9999.00	-9999.00	60950.00	-.08	909.00	3819.00	61.00	-94.00	10.70
456546	17.00	-5.00	193.00	-9999.00	-9999.00	-9999.00	70570.00	-.03	470.00	-1088.00	51.00	-106.00	17.40
456547	19.00	-5.00	216.00	-9999.00	-9999.00	-9999.00	73740.00	-.06	528.00	-985.00	59.00	-104.00	20.70
456548	16.00	-5.00	208.00	-9999.00	-9999.00	-9999.00	59950.00	-.06	357.00	-1012.00	54.00	-100.00	14.50
456549	19.00	-5.00	217.00	-9999.00	-9999.00	-9999.00	61930.00	-.03	530.00	3307.00	45.00	-110.00	15.60
456550	21.00	-5.00	147.00	-9999.00	-9999.00	-9999.00	58420.00	-.06	475.00	4051.00	63.00	-100.00	32.90
456551	12.00	-5.00	145.00	-9999.00	-9999.00	-9999.00	51680.00	-.05	322.00	18640.00	33.00	-86.00	16.40
456552	8.00	-5.00	164.00	-9999.00	-9999.00	-9999.00	39810.00	-.06	302.00	13330.00	39.00	-104.00	15.50
456553	13.00	-5.00	213.00	-9999.00	-9999.00	-9999.00	48810.00	-.02	332.00	4233.00	37.00	-94.00	11.80
456554	-5.00	-5.00	103.00	-9999.00	-9999.00	-9999.00	34650.00	-.06	246.00	53120.00	42.00	-82.00	29.70
456555	15.00	-5.00	170.00	-9999.00	-9999.00	-9999.00	43230.00	-.04	356.00	16000.00	30.00	-89.00	15.70
456556	9.00	-5.00	228.00	-9999.00	-9999.00	-9999.00	40020.00	-.05	318.00	17440.00	38.00	-89.00	11.90
456557	25.00	-5.00	295.00	-9999.00	-9999.00	-9999.00	56990.00	-.03	8135.00	8008.00	49.00	-117.00	17.90
456558	25.00	-5.00	183.00	-9999.00	-9999.00	-9999.00	70270.00	-.06	445.00	-1118.00	66.00	-95.00	26.30
456559	17.00	-5.00	157.00	-9999.00	-9999.00	-9999.00	67870.00	-.06	481.00	3260.00	49.00	-105.00	19.00
456560	17.00	-5.00	230.00	-9999.00	-9999.00	-9999.00	57730.00	-.05	549.00	-957.00	57.00	-95.00	15.50
456561	23.00	-5.00	149.00	-9999.00	-9999.00	-9999.00	68960.00	-.03	352.00	4569.00	42.00	-109.00	18.10
456562	18.00	-5.00	160.00	-9999.00	-9999.00	-9999.00	72450.00	-.07	672.00	7574.00	69.00	-114.00	41.10
456564	16.00	-5.00	197.00	-9999.00	-9999.00	-9999.00	62940.00	-.07	828.00	3693.00	58.00	-99.00	14.80
456565	17.00	-5.00	182.00	-9999.00	-9999.00	-9999.00	59230.00	-.03	331.00	6160.00	39.00	-115.00	16.40
456566	17.00	-5.00	187.00	-9999.00	-9999.00	-9999.00	61930.00	-.06	470.00	9366.00	50.00	-98.00	37.50
456567	11.00	-5.00	171.00	-9999.00	-9999.00	-9999.00	60940.00	-.05	501.00	4663.00	47.00	-105.00	19.40
456568	20.00	-5.00	220.00	-9999.00	-9999.00	-9999.00	60980.00	-.07	968.00	5499.00	64.00	-108.00	16.00
456569	17.00	-5.00	197.00	-9999.00	-9999.00	-9999.00	60950.00	-.03	389.00	-1215.00	41.00	-119.00	15.90
456570	18.00	-5.00	189.00	-9999.00	-9999.00	-9999.00	58350.00	-.06	566.00	6091.00	63.00	-98.00	34.90
456571	16.00	-5.00	275.00	-9999.00	-9999.00	-9999.00	65340.00	-.05	381.00	-1153.00	59.00	-117.00	21.90
456572	15.00	-5.00	177.00	-9999.00	-9999.00	-9999.00	63200.00	-.06	503.00	4477.00	65.00	-103.00	13.70
456573	15.00	-5.00	269.00	-9999.00	-9999.00	-9999.00	63960.00	-.04	486.00	-1481.00	46.00	-143.00	24.10
456574	283.00	20.00	161.00	-9999.00	-9999.00	-9999.00	86980.00	-.09	1347.00	4392.00	103.00	-79.00	29.70
456575	22.00	7.00	136.00	-9999.00	-9999.00	-9999.00	74170.00	-.06	5487.00	20200.00	66.00	-96.00	18.80
456576	12.00	-5.00	178.00	-9999.00	-9999.00	-9999.00	50980.00	-.08	729.00	11840.00	61.00	-109.00	19.20
456577	35.00	-5.00	173.00	-9999.00	-9999.00	-9999.00	71060.00	-.04	14010.00	6809.00	66.00	-99.00	21.20
456578	23.00	-5.00	141.00	-9999.00	-9999.00	-9999.00	44070.00	-.07	12598.00	45700.00	51.00	-79.00	35.00
456579	6.00	-5.00	85.00	-9999.00	-9999.00	-9999.00	31570.00	-.07	1400.00	21500.00	32.00	-125.00	20.60
456580	7.00	-5.00	124.00	-9999.00	-9999.00	-9999.00	61710.00	-.08	698.00	23970.00	61.00	-61.00	15.20
456581	6.00	-5.00	69.00	-9999.00	-9999.00	-9999.00	22580.00	-.03	1484.00	128000.00	22.00	-77.00	10.10
456582	23.00	-5.00	94.00	-9999.00	-9999.00	-9999.00	38580.00	-.12	457.00	7257.00	38.00	213.00	60.30
456584	17.00	-5.00	233.00	-9999.00	-9999.00	-9999.00	51240.00	-.05	487.00	2491.00	42.00	-87.00	10.70
456585	13.00	-5.00	141.00	-9999.00	-9999.00	-9999.00	48880.00	-.03	246.00	9766.00	35.00	-98.00	12.50
456586	10.00	-5.00	200.00	-9999.00	-9999.00	-9999.00	58820.00	-.05	396.00	9557.00	47.00	-91.00	28.50
456587	10.00	-5.00	201.00	-9999.00	-9999.00	-9999.00	67350.00	-.05	447.00	3770.00	53.00	-110.00	23.80
456588	10.00	-5.00	166.00	-9999.00	-9999.00	-9999.00	71950.00	-.08	351.00	27370.00	70.00	-95.00	17.00

POINT HOPE STREAM SEDIMENT — PG. THREE - SAMPLE SET 2

SAMPLE NO.	CP PPM	CS PPM	DY PPM	EU PPM	FE PPM	HF PPM	K PPM	LA PPM	LU PPM	MG PPM	MN PPM	NA PPM	NB PPM
456537	70.00	4.60	4.00	.90	21680.00	4.80	7974.00	31.00	.40	19610.00	616.00	4522.00	-27.00
456538	83.00	5.40	5.00	1.00	28690.00	5.60	9941.00	33.00	.40	9298.00	692.00	6297.00	46.00
456539	104.00	6.20	5.00	2.10	22090.00	6.30	13090.00	39.00	.50	10880.00	686.00	5426.00	48.00
456540	71.00	8.90	5.00	1.10	39340.00	7.10	15730.00	37.00	.40	5055.00	1411.00	1367.00	93.00
456541	73.00	10.30	5.00	1.10	30460.00	6.90	16920.00	36.00	.40	4384.00	608.00	3063.00	87.00
456542	73.00	10.60	4.00	.90	22680.00	4.00	12180.00	31.00	.30	15540.00	916.00	3032.00	67.00
456543	89.00	6.80	6.00	1.40	24260.00	6.60	12810.00	32.00	.50	8411.00	718.00	4782.00	-33.00
456544	84.00	8.30	4.00	1.00	24450.00	4.30	11460.00	29.00	.30	15640.00	796.00	4701.00	70.00
456545	93.00	4.10	5.00	1.10	29400.00	10.60	14140.00	33.00	.40	5194.00	807.00	13070.00	74.00
456546	78.00	3.80	5.00	1.00	36650.00	5.60	16680.00	29.00	.30	6025.00	714.00	14870.00	72.00
456547	95.00	4.40	5.00	1.10	38130.00	7.50	17810.00	31.00	.30	7925.00	731.00	14040.00	79.00
456548	75.00	2.80	4.00	.90	32660.00	7.50	9509.00	23.00	.30	9426.00	558.00	16390.00	52.00
456549	100.00	3.10	4.00	.90	34010.00	7.80	9775.00	22.00	.30	6532.00	607.00	14820.00	51.00
456550	93.00	3.20	4.00	1.10	35550.00	6.50	9928.00	29.00	.30	6328.00	726.00	15330.00	-28.00
456551	90.00	4.30	4.00	.70	26370.00	5.20	11070.00	21.00	.30	5286.00	384.00	10240.00	65.00
456552	82.00	2.20	4.00	.80	21080.00	6.60	-3525.00	25.00	.40	7430.00	605.00	10640.00	-28.00
456553	86.00	1.60	4.00	.70	24380.00	8.20	7251.00	21.00	.30	3017.00	256.00	16610.00	31.00
456554	109.00	2.90	3.00	.80	17440.00	9.60	6830.00	23.00	.30	22890.00	429.00	7494.00	-30.00
456555	75.00	3.90	3.00	.60	22660.00	6.00	9853.00	16.00	.20	9552.00	550.00	11950.00	-19.00
456556	95.00	3.20	3.00	.60	23180.00	8.30	10480.00	21.00	.30	4178.00	523.00	10970.00	35.00
456557	117.00	4.40	5.00	2.10	31490.00	12.10	16160.00	30.00	.40	6282.00	972.00	12310.00	59.00
456558	93.00	6.10	5.00	1.20	40030.00	6.50	15770.00	28.00	.40	6414.00	857.00	11690.00	65.00
456559	83.00	4.50	6.00	1.10	30480.00	5.50	13690.00	24.00	.20	5714.00	327.00	13010.00	89.00
456560	98.00	3.10	4.00	.80	33340.00	8.10	11610.00	19.00	.30	5253.00	650.00	14620.00	57.00
456561	72.00	4.00	4.00	1.00	37510.00	5.30	14910.00	24.00	.30	6060.00	745.00	14590.00	59.00
456562	101.00	4.70	5.00	1.40	45420.00	5.70	20940.00	32.00	.50	10090.00	1201.00	12180.00	74.00
456564	83.00	3.60	4.00	1.00	29770.00	7.20	10660.00	29.00	.40	5167.00	424.00	14500.00	65.00
456565	77.00	2.80	4.00	.90	35020.00	5.90	14440.00	22.00	.30	6048.00	664.00	15980.00	93.00
456566	90.00	4.40	5.00	1.00	36070.00	6.50	12660.00	28.00	.40	7935.00	668.00	14540.00	70.00
456567	76.00	4.00	4.00	.90	35250.00	4.90	9465.00	25.00	.30	6641.00	709.00	15550.00	-23.00
456568	103.00	3.70	4.00	1.00	35270.00	8.30	10760.00	27.00	.50	6546.00	785.00	14660.00	54.00
456569	65.00	2.20	3.00	.80	34[illegible].00	6.10	12610.00	24.00	.30	4300.00	864.00	17730.00	44.00
456570	90.00	3.80	5.00	1.10	33670.00	7.50	11780.00	30.00	.40	5001.00	902.00	12880.00	-32.00
456571	76.00	2.90	4.00	.90	31780.00	10.10	11740.00	21.00	.30	5073.00	986.00	15590.00	-24.00
456572	80.00	3.90	5.00	1.00	34030.00	7.10	13710.00	32.00	.40	9151.00	253.00	12840.00	95.00
456573	92.00	3.70	5.00	1.00	33860.00	7.20	15550.00	26.00	.30	7295.00	1554.00	13950.00	47.00
456574	234.00	12.10	6.00	2.20	57200.00	6.40	23180.00	67.00	.50	5390.00	113.00	10200.00	146.00
456575	119.00	6.70	5.00	1.50	32720.00	5.00	19610.00	39.00	.50	12370.00	971.00	8627.00	98.00
456576	90.00	3.10	5.00	1.20	29780.00	6.50	10220.00	31.00	.40	5687.00	902.00	9011.00	-32.00
456577	115.00	6.40	6.00	2.20	42890.00	8.30	21640.00	41.00	.50	5537.00	847.00	8439.00	86.00
456578	86.00	6.10	5.00	2.30	29800.00	7.00	12860.00	44.00	.50	18850.00	569.00	4989.00	81.00
456579	48.00	3.20	4.00	1.20	16220.00	3.30	-5626.00	25.00	.20	-2264.00	1131.00	3607.00	-96.00
456580	90.00	9.60	5.00	1.00	32940.00	5.30	13610.00	33.00	.30	2741.00	429.00	2337.00	92.00
456581	40.00	2.40	3.00	.80	14160.00	2.10	8590.00	16.00	.20	26240.00	488.00	2486.00	32.00
456582	71.00	4.50	4.00	.80	23380.00	4.00	-3079.00	-16.00	-.20	2870.00	91.00	4692.00	-98.00
456583	97.00	2.80	3.00	.80	29820.00	10.00	7165.00	24.00	.30	4281.00	257.00	14960.00	43.00
456584	128.00	2.20	4.00	.70	27260.00	9.30	7670.00	19.00	.30	5196.00	413.00	14990.00	40.00
456585	96.00	2.90	4.00	1.10	31400.00	8.00	12250.00	26.00	.30	6560.00	423.00	15820.00	67.00
456586	98.00	3.80	5.00	1.10	33140.00	7.50	14250.00	28.00	.40	7199.00	933.00	13550.00	99.00
456587	93.00	4.30	6.00	1.00	44300.00	6.60	18820.00	29.00	.40	16680.00	965.00	10150.00	77.00

SAMPLE NO.	SR PPM	SC PPM	SM PPM	SP PPM	TA PPM	TB PPM	TH PPM	TI PPM	V PPM	YB PPM	ZN PPM	TH/U RATIO
456937	-2.00	8.60	3.90	-212.00	-1.00	-1.00	5.00	2305.00	118.00	4.30	209.00	1.22000
456938	-1.00	10.30	3.40	-326.00	-1.00	-1.00	7.10	3419.00	139.00	3.20	221.00	1.30500
456939	3.00	14.90	3.80	-153.00	-1.00	-1.00	6.10	2746.00	271.00	3.80	-46.00	1.24200
456940	-3.00	12.10	4.90	-248.00	-1.00	-1.00	9.00	4280.00	115.00	4.20	133.00	2.96700
456941	-3.00	13.00	5.00	-214.00	-1.00	-1.00	10.10	3961.00	115.00	4.10	-37.00	3.02100
456942	-1.00	8.90	2.90	-360.00	-1.00	-1.00	6.60	2603.00	96.00	2.90	312.00	1.94200
456943	-2.00	11.20	4.40	-160.00	-1.00	-1.00	8.50	3086.00	122.00	6.00	189.00	2.38700
456944	-2.00	10.50	3.40	-256.00	-1.00	-1.00	9.90	3218.00	157.00	3.70	164.00	1.20900
456945	-2.00	11.10	3.40	-178.00	-1.00	-1.00	7.60	3566.00	129.00	3.40	-47.00	2.20300
456946	-1.00	11.80	4.00	-270.00	-1.00	-9999.00	7.90	3614.00	122.00	3.70	-19.00	3.18500
456947	-2.00	12.40	4.10	-215.00	-1.00	-1.00	8.20	4409.00	123.00	4.20	74.00	3.04900
456948	-2.00	9.50	3.10	-198.00	-1.00	-1.00	6.80	3370.00	93.00	3.20	94.00	3.08600
456949	-1.00	10.10	3.10	-274.00	1.00	1.00	6.80	3562.00	111.00	4.00	58.00	2.99400
456950	-2.00	11.10	4.00	-194.00	-1.00	-1.00	7.10	4512.00	108.00	2.30	99.00	3.01200
456951	-1.00	9.10	2.60	-177.00	-1.00	-1.00	5.40	3386.00	112.00	2.60	103.00	1.82500
456952	-2.00	7.90	2.30	-232.00	-1.00	-1.00	5.20	2311.00	80.00	4.30	138.00	1.63100
456953	-1.00	7.20	2.90	-199.00	1.00	1.00	5.90	3396.00	77.00	2.80	60.00	2.54500
456954	-2.00	6.90	2.60	-196.00	-1.00	-1.00	5.50	2488.00	66.00	3.60	204.00	2.52500
456955	-1.00	6.40	2.30	-181.00	-1.00	-9999.00	4.00	2949.00	69.00	-.90	94.00	2.00800
456956	-2.00	6.70	2.50	-185.00	-1.00	1.00	4.10	2101.00	70.00	2.40	122.00	1.96100
456957	2.00	11.00	3.30	438.00	-1.00	1.00	6.40	3379.00	179.00	4.20	76.00	1.73300
456958	-2.00	13.90	4.20	-162.00	-1.00	-1.00	10.30	3849.00	142.00	4.60	76.00	4.03200
456959	-2.00	11.60	4.00	-201.00	-1.00	-1.00	7.10	4804.00	124.00	3.40	76.00	2.89000
456960	-2.00	9.60	3.60	-196.00	-1.00	-1.00	6.00	4298.00	104.00	3.80	-41.00	2.59700
456961	-1.00	11.80	3.70	-286.00	-1.00	-9999.00	8.00	4102.00	114.00	4.10	63.00	3.42500
456962	-2.00	15.80	5.30	-208.00	-2.00	-1.00	10.40	4934.00	142.00	5.10	130.00	3.78800
456964	-2.00	11.60	4.50	-189.00	-1.00	-1.00	8.10	4245.00	116.00	3.20	-39.00	3.20500
456965	-1.00	10.50	3.40	-286.00	1.00	-9999.00	6.90	3817.00	111.00	3.80	64.00	3.03000
456966	-2.00	11.60	4.60	-155.00	-1.00	-1.00	7.80	4378.00	122.00	3.70	124.00	3.08600
456967	-1.00	10.80	3.50	-215.00	-1.00	-1.00	6.00	5190.00	124.00	3.30	78.00	2.45100
456968	-2.00	11.80	4.30	-231.00	-1.00	-1.00	7.90	4317.00	122.00	3.20	-32.00	2.99400
456969	-1.00	9.00	2.80	-284.00	-1.00	-9999.00	6.40	3069.00	90.00	3.10	-18.00	3.26800
456970	-2.00	11.30	4.20	-147.00	-1.00	-1.00	6.90	4335.00	111.00	-1.60	62.00	3.98400
456971	-2.00	9.90	3.60	-252.00	-1.00	-1.00	7.20	3750.00	125.00	3.60	70.00	2.80100
456972	-2.00	11.60	4.10	-190.00	1.00	-1.00	8.50	3719.00	110.00	3.40	-35.00	3.52100
456973	-1.00	11.20	3.30	-439.00	-1.00	1.00	7.90	3315.00	115.00	4.70	79.00	3.08600
456974	10.00	30.40	7.90	266.00	-2.00	-1.00	18.30	4348.00	737.00	-2.60	-32.00	1.40460
456975	-2.00	19.60	5.90	-236.00	-1.00	-1.00	9.80	4407.00	337.00	3.50	-37.00	1.91900
456976	-2.00	11.20	4.60	-269.00	-1.00	-1.00	7.50	3199.00	[illegible].00	5.40	-28.00	1.85500
456977	3.00	17.70	3.90	-319.00	1.00	-1.00	9.20	5049.00	292.00	3.90	-88.00	1.70900
456978	-2.00	12.10	3.30	-190.00	-2.00	-1.00	6.10	3166.00	174.00	3.40	243.00	1.35300
456979	-2.00	7.50	2.60	-367.00	-2.00	-1.00	4.10	2773.00	84.00	-2.10	294.00	1.39500
456980	-2.00	12.70	3.70	-186.00	-1.00	-1.00	9.70	3083.00	118.00	4.20	-36.00	3.50900
456981	-1.00	5.30	1.70	-245.00	-9999.00	-9999.00	2.90	1231.00	59.00	1.80	79.00	1.33700
456982	-3.00	8.60	2.90	-145.00	-3.00	-1.00	5.90	2693.00	75.00	-3.20	212.00	2.16000
456984	-2.00	7.90	2.60	-191.00	-1.00	-1.00	6.20	3734.00	94.00	3.60	-24.00	2.74000
456985	-1.00	7.50	2.30	-229.00	-9999.00	-9999.00	4.70	3645.00	89.00	2.80	-43.00	2.14600
456986	-2.00	10.60	3.20	-125.00	-1.00	-1.00	6.80	4717.00	105.00	3.50	102.00	3.11500
456987	-2.00	11.80	3.50	-247.00	-1.00	-1.00	7.00	4264.00	134.00	4.20	183.00	2.98400
456988	-2.00	15.40	4.30	-211.00	-1.00	-1.00	9.20	3986.00	163.00	4.10	-37.00	3.20500

POINT HOPE STREAM SEDIMENT

SAMPLE NO.	LAT.	LONG.	PN	COND.	SCINT.	URANIUM PPM	SILVER PPM	BISMUTH PPM	CADMIUM PPM	COPPER PPM	NIOBIUM PPM	NICKEL PPM	LEAD PPM	TIN PPM	TUNGSTEN PPM
456599	68.2111	165.2622	8.	107.0	14.	2.78	-5.00	-5.00	-5.00	-10.00	-20.00	90.00	7.00	20.00	-15.00
456598	68.2139	165.2936	8.	113.0	14.	3.05	-5.00	-5.00	-5.00	28.00	-20.00	41.00	7.00	-10.00	-15.00
456591	68.1486	165.3528	8.	26.0	10.	2.96	-5.00	-5.00	-5.00	23.00	-20.00	27.00	6.00	-10.00	-15.00
456592	68.1794	165.2661	8.	104.0	10.	2.37	-5.00	-5.00	-5.00	27.00	-20.00	32.00	8.00	-10.00	-15.00
456593	68.1736	165.1023	8.	142.0	12.	2.54	-5.00	-5.00	-5.00	27.00	-20.00	44.00	15.00	-10.00	-15.00
456594	68.1947	165.0272	8.	4.0	6.	2.13	-5.00	-5.00	-5.00	18.00	-20.00	21.00	5.00	-10.00	-15.00
456595	68.2292	165.0106	7.	44.0	6.	1.84	-5.00	-5.00	-5.00	26.00	-20.00	20.00	-5.00	-10.00	-15.00
456596	68.2778	165.0225	7.	114.0	4.	2.18	-5.00	-5.00	-5.00	26.00	-20.00	26.00	6.00	-10.00	-15.00
456597	68.0983	165.0344	8.	48.0	8.	2.80	-5.00	-5.00	-5.00	22.00	-20.00	32.00	12.00	-10.00	-15.00
456598	68.1392	165.0531	8.	49.0	10.	2.90	-5.00	-5.00	-5.00	38.00	-20.00	37.00	9.00	-10.00	-15.00
456599	68.1508	165.0925	8.	97.0	6.	2.72	-5.00	-5.00	-5.00	38.00	-20.00	34.00	-5.00	-10.00	-15.00
456600	68.1456	165.2561	8.	86.0	5.	2.43	-5.00	-5.00	-5.00	34.00	-20.00	34.00	10.00	-10.00	-15.00
456601	68.5117	165.0986	8.	93.0	3.	2.02	-5.00	-5.00	-5.00	36.00	-20.00	31.00	-5.00	-10.00	-15.00
456602	68.5028	165.2003	8.	94.0	3.	2.71	-5.00	-5.00	-5.00	37.00	-20.00	49.00	12.00	21.00	-15.00
456603	68.5072	165.2492	8.	139.0	5.	2.64	-5.00	-5.00	-5.00	35.00	-20.00	51.00	10.00	24.00	-15.00
456604	68.5042	165.4065	8.	59.0	4.	2.27	-5.00	-5.00	-5.00	29.00	-20.00	45.00	5.00	-10.00	-15.00
456605	68.5083	165.5619	8.	43.0	9.	2.23	-5.00	-5.00	-5.00	30.00	-20.00	28.00	5.00	-10.00	-15.00
456606	68.4775	165.4939	8.	15.0	3.	2.71	-5.00	-5.00	-5.00	37.00	-20.00	47.00	10.00	-10.00	-15.00
456607	68.4719	165.4544	8.	97.0	1.	2.09	-5.00	-5.00	-5.00	21.00	-20.00	29.00	-5.00	-10.00	-15.00
456608	68.4753	165.2594	8.	34.0	12.	2.20	-5.00	-5.00	-5.00	26.00	-20.00	40.00	6.00	-10.00	-15.00
456609	68.4781	165.1628	7.	93.0	5.	2.78	-5.00	5.00	-5.00	48.00	-20.00	70.00	11.00	12.00	31.00
456610	68.4733	165.0797	8.	201.0	-9999.	2.57	-5.00	-5.00	-5.00	34.00	-20.00	29.00	9.00	-10.00	-15.00
456611	68.0517	165.0133	8.	89.0	6.	2.29	-5.00	-5.00	-5.00	28.00	-20.00	31.00	8.00	-10.00	-15.00
456612	68.0936	165.0378	8.	46.0	8.	2.46	-5.00	-5.00	-5.00	28.00	-20.00	32.00	9.00	-10.00	-15.00
456613	68.0100	165.0094	6.	107.0	15.	2.26	-5.00	-5.00	-5.00	32.00	-20.00	44.00	10.00	-10.00	-15.00
456614	68.0058	165.1286	6.	119.0	7.	2.16	-5.00	-5.00	-5.00	25.00	-20.00	34.00	7.00	-10.00	-15.00
456615	68.0072	165.1478	6.	71.0	7.	2.37	-5.00	-5.00	-5.00	33.00	-20.00	60.00	6.00	-10.00	-15.00
456616	68.0733	165.1242	6.	45.0	14.	2.58	-5.00	-5.00	-5.00	30.00	-20.00	44.00	9.00	-10.00	-15.00
456617	68.1233	165.1744	6.	69.0	9.	2.72	-5.00	-5.00	-5.00	35.00	-20.00	48.00	9.00	-10.00	-15.00
456618	68.1083	165.2303	6.	85.0	14.	2.19	-5.00	-5.00	-5.00	23.00	-20.00	37.00	8.00	-10.00	-15.00
456619	68.0794	165.2539	6.	21.0	9.	2.16	-5.00	-5.00	-5.00	32.00	-20.00	52.00	5.00	-10.00	-15.00
456620	68.0331	165.2622	6.	51.0	14.	2.61	-5.00	-5.00	-5.00	27.00	-20.00	32.00	6.00	-10.00	-15.00
456621	68.0489	165.3125	6.	40.0	19.	2.30	-5.00	-5.00	-5.00	30.00	-20.00	29.00	6.00	-10.00	-15.00
456622	68.0783	165.4972	6.	23.0	12.	2.42	-5.00	-5.00	-5.00	32.00	-20.00	36.00	9.00	-10.00	-15.00
456623	68.0947	165.5892	6.	13.0	14.	2.75	-5.00	-5.00	-5.00	32.00	-20.00	44.00	10.00	-10.00	-15.00
456624	68.1050	165.6528	6.	34.0	12.	2.22	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00
456625	68.2217	166.0350	6.	203.0	12.	2.00	-5.00	-5.00	-5.00	10.00	-20.00	37.00	-5.00	-10.00	-15.00
456626	68.2825	166.1598	6.	131.0	15.	2.44	-5.00	-5.00	-5.00	17.00	-20.00	51.00	10.00	-10.00	-15.00
456627	68.3161	166.1767	6.	13.0	7.	2.14	-5.00	-5.00	-5.00	18.00	-20.00	19.00	5.00	-10.00	-15.00
456628	68.3631	166.1783	6.	13.0	-9999.	1.73	-5.00	-5.00	-5.00	19.00	-20.00	24.00	-5.00	-10.00	-15.00
456629	68.3886	166.1898	6.	29.0	12.	2.83	-5.00	-5.00	-5.00	28.00	-20.00	38.00	16.00	-10.00	-15.00
456630	68.3775	166.2139	5.	31.0	10.	2.19	-5.00	-5.00	-5.00	22.00	-20.00	27.00	9.00	-10.00	-15.00
456631	68.4342	166.2378	6.	28.0	4.	2.20	-5.00	-5.00	-5.00	26.00	-20.00	26.00	-5.00	-10.00	-15.00
456632	68.4800	166.2672	6.	155.0	10.	3.46	-5.00	-5.00	-5.00	31.00	-20.00	40.00	15.00	-10.00	-15.00
456633	68.5225	166.2733	6.	250.0	29.	3.92	-5.00	-5.00	-5.00	57.00	-20.00	49.00	25.00	-10.00	-15.00
456634	68.6486	166.2214	6.	55.0	6.	5.08	-5.00	-5.00	-5.00	44.00	-20.00	45.00	9.00	-10.00	-15.00
456635	68.6528	166.2247	6.	157.0	6.	4.21	-5.00	-5.00	-5.00	34.00	-20.00	32.00	8.00	-10.00	-15.00
456636	68.6897	166.1925	6.	191.0	17.	3.11	-5.00	-5.00	-5.00	31.00	-20.00	25.00	10.00	-10.00	-15.00
456637	68.7369	166.1767	6.	244.0	17.	3.70	-5.00	-5.00	5.00	19.00	-20.00	40.00	33.00	-10.00	-15.00
456638	68.7947	166.1711	6.	169.0	7.	4.19	-5.00	-5.00	-5.00	34.00	-20.00	52.00	16.00	-10.00	-15.00

SAMPLE NO.	AS PPM	SE PPM	ZR PPM	MO PPM	BE PPM	LI PPM	AL PPM	AU PPM	BA PPM	CA PPM	CF PPM	CL PPM	CR PPM
456589	27.00	-5.00	183.00	-9999.00	-9999.00	-9999.00	84290.00	-.04	904.00	3541.00	63.00	-106.00	21.00
456590	16.00	-5.00	203.00	-9999.00	-9999.00	-9999.00	63620.00	-.07	514.00	7437.00	70.00	-94.00	36.80
456591	16.00	-5.00	240.00	-9999.00	-9999.00	-9999.00	61250.00	-.04	305.00	-842.00	43.00	-90.00	19.00
456592	14.00	-5.00	192.00	-9999.00	-9999.00	-9999.00	63480.00	-.06	263.00	3846.00	53.00	-87.00	13.10
456593	23.00	-5.00	176.00	-9999.00	-9999.00	-9999.00	69810.00	-.03	437.00	13840.00	92.00	-91.00	16.70
456594	7.00	-5.00	189.00	-9999.00	-9999.00	-9999.00	55810.00	-.07	411.00	-969.00	42.00	-94.00	31.40
456595	28.00	-5.00	148.00	-9999.00	-9999.00	-9999.00	50000.00	-.08	-193.00	-754.00	57.00	-100.00	14.60
456596	16.00	-5.00	207.00	-9999.00	-9999.00	-9999.00	61690.00	-.03	285.00	2806.00	40.00	-101.00	14.60
456597	20.00	-5.00	167.00	-9999.00	-9999.00	-9999.00	63330.00	-.05	410.00	3008.00	50.00	-85.00	31.60
456598	15.00	-5.00	183.00	-9999.00	-9999.00	-9999.00	64200.00	-.04	623.00	9882.00	47.00	-95.00	18.90
456599	21.00	-5.00	348.00	-9999.00	-9999.00	-9999.00	60910.00	-.05	742.00	8376.00	56.00	-101.00	16.60
456600	19.00	-5.00	174.00	-9999.00	-9999.00	-9999.00	63800.00	-.03	410.00	6275.00	45.00	-103.00	16.30
456601	18.00	-5.00	148.00	-9999.00	-9999.00	-9999.00	58890.00	-.05	408.00	2789.00	45.00	-94.00	28.90
456602	19.00	-5.00	159.00	-9999.00	-9999.00	-9999.00	75990.00	-.05	464.00	3469.00	62.00	-107.00	25.30
456603	27.00	-5.00	157.00	-9999.00	-9999.00	-9999.00	71160.00	-.07	462.00	5824.00	74.00	-114.00	23.70
456604	20.00	-5.00	166.00	-9999.00	-9999.00	-9999.00	61930.00	-.03	399.00	-1153.00	42.00	-116.00	19.20
456605	18.00	-5.00	174.00	-9999.00	-9999.00	-9999.00	59520.00	-.05	357.00	3090.00	57.00	-101.00	30.70
456606	19.00	-5.00	165.00	-9999.00	-9999.00	-9999.00	71280.00	-.05	529.00	4329.00	72.00	-110.00	23.30
456607	14.00	-5.00	203.00	-9999.00	-9999.00	-9999.00	58160.00	-.05	265.00	3210.00	48.00	-97.00	13.30
456608	14.00	-5.00	176.00	-9999.00	-9999.00	-9999.00	61380.00	-.03	348.00	2669.00	41.00	-112.00	15.90
456609	32.00	-5.00	158.00	-9999.00	-9999.00	-9999.00	79060.00	-.06	528.00	-1366.00	76.00	-121.00	48.30
456610	21.00	-5.00	162.00	-9999.00	-9999.00	-9999.00	71330.00	-.06	444.00	2955.00	95.00	-109.00	21.80
456611	16.00	-5.00	165.00	-9999.00	-9999.00	-9999.00	66100.00	-.06	326.00	3963.00	62.00	-94.00	16.60
456612	18.00	-5.00	174.00	-9999.00	-9999.00	-9999.00	66610.00	-.03	239.00	2929.00	48.00	-96.00	15.80
456613	20.00	-5.00	168.00	-9999.00	-9999.00	-9999.00	63590.00	-.06	421.00	7511.00	56.00	-103.00	36.00
456614	12.00	-5.00	199.00	-9999.00	-9999.00	-9999.00	56760.00	-.05	489.00	4386.00	46.00	-92.00	17.80
456615	21.00	-5.00	186.00	-9999.00	-9999.00	-9999.00	61740.00	-.07	402.00	5996.00	57.00	-106.00	18.40
456616	25.00	-5.00	186.00	-9999.00	-9999.00	-9999.00	73860.00	-.03	512.00	3375.00	58.00	-106.00	20.10
456617	28.00	-5.00	168.00	-9999.00	-9999.00	-9999.00	77150.00	-.07	528.00	4379.00	68.00	-95.00	40.60
456618	29.00	-5.00	181.00	-9999.00	-9999.00	-9999.00	68800.00	-.04	416.00	4324.00	64.00	-98.00	21.60
456619	21.00	-5.00	157.00	-9999.00	-9999.00	-9999.00	60060.00	-.06	593.00	3521.00	54.00	-98.00	16.90
456620	21.00	-5.00	197.00	-9999.00	-9999.00	-9999.00	66980.00	-.03	-231.00	3652.00	51.00	-124.00	18.40
456621	22.00	-5.00	190.00	-9999.00	-9999.00	-9999.00	62110.00	-.05	354.00	-880.00	48.00	-91.00	32.10
456622	23.00	-5.00	168.00	-9999.00	-9999.00	-9999.00	73390.00	-.05	365.00	-978.00	55.00	-93.00	20.70
456623	20.00	-5.00	195.00	-9999.00	-9999.00	-9999.00	71880.00	-.06	359.00	-970.00	66.00	-92.00	17.40
456624	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	59030.00	-.03	663.00	11150.00	80.00	-107.00	14.50
456625	8.00	-5.00	167.00	-9999.00	-9999.00	-9999.00	36250.00	-.05	269.00	39210.00	31.00	-65.00	25.30
456626	5.00	-5.00	127.00	-9999.00	-9999.00	-9999.00	49710.00	-.04	398.00	5784.00	44.00	-99.00	16.80
456627	8.00	-5.00	182.00	-9999.00	-9999.00	-9999.00	46170.00	-.06	402.00	-820.00	48.00	-86.00	10.90
456628	-5.00	-5.00	76.00	-9999.00	-9999.00	-9999.00	22650.00	-.06	-419.00	-1659.00	29.00	548.00	18.20
456629	15.00	-5.00	166.00	-9999.00	-9999.00	-9999.00	70080.00	-.06	721.00	6619.00	75.00	-103.00	28.70
456630	15.00	-5.00	274.00	-9999.00	-9999.00	-9999.00	54690.00	-.04	907.00	5325.00	45.00	-95.00	17.80
456631	33.00	-5.00	63.00	-9999.00	-9999.00	-9999.00	30910.00	-.12	-259.00	8363.00	47.00	314.00	13.30
456632	13.00	-5.00	166.00	-9999.00	-9999.00	-9999.00	60100.00	-.03	719.00	9792.00	59.00	-72.00	16.70
456633	15.00	-5.00	179.00	-9999.00	-9999.00	-9999.00	71990.00	-.07	698.00	3910.00	88.00	242.00	45.60
456634	28.00	-5.00	231.00	-9999.00	-9999.00	-9999.00	59500.00	-.05	679.00	3880.00	82.00	-66.00	23.30
456635	16.00	-5.00	326.00	-9999.00	-9999.00	-9999.00	61400.00	-.07	646.00	4000.00	98.00	-61.00	16.30
456636	12.00	-5.00	181.00	-9999.00	-9999.00	-9999.00	55940.00	-.03	380.00	11850.00	74.00	173.00	17.10
456637	-5.00	-5.00	67.00	-9999.00	-9999.00	-9999.00	20540.00	-.04	614.00	139000.00	22.00	-69.00	24.40
456638	9.00	-5.00	107.00	-9999.00	-9999.00	-9999.00	35820.00	-.05	959.00	77270.00	31.00	-99.00	18.00

SAMPLE NO.	CR PPM	CS PPM	DY PPM	EU PPM	FE PPM	HF PPM	K PPM	LA PPM	LU PPM	MG PPM	MN PPM	NA PPM	RB PPM
456589	96.00	4.40	6.00	1.10	49130.00	5.20	21040.00	32.00	.40	8010.00	778.00	11020.00	90.00
456590	87.00	5.40	6.00	1.30	41260.00	7.40	16380.00	36.00	.50	11260.00	883.00	7492.00	77.00
456591	88.00	3.00	4.00	.80	31820.00	9.20	15170.00	24.00	.30	6936.00	524.00	14480.00	55.00
456592	90.00	3.60	5.00	1.10	36830.00	6.10	10480.00	24.00	.30	6243.00	340.00	13820.00	61.00
456593	81.00	4.20	6.00	.90	41970.00	5.90	13930.00	26.00	.30	11130.00	475.00	11880.00	78.00
456594	98.00	2.70	4.00	.80	24790.00	7.40	10830.00	27.00	.30	5417.00	166.00	15550.00	-30.00
456595	70.00	-1.60	4.00	.90	59070.00	4.70	7933.00	19.00	.30	6044.00	180.00	13210.00	-35.00
456596	92.00	2.60	4.00	.80	33560.00	7.40	12490.00	24.00	.30	4972.00	376.00	16360.00	45.00
456597	79.00	3.20	4.00	1.00	37080.00	6.90	11120.00	26.00	.30	4409.00	405.00	13800.00	61.00
456598	86.00	3.30	4.00	.90	35070.00	5.80	12950.00	29.00	.30	9339.00	544.00	14800.00	53.00
456599	128.00	2.50	5.00	1.00	33980.00	12.70	11780.00	24.00	.40	7400.00	673.00	14620.00	47.00
456600	81.00	2.90	4.00	.90	37400.00	6.00	14250.00	25.00	.30	6659.00	552.00	14920.00	57.00
456601	73.00	2.30	4.00	.90	37120.00	5.10	12920.00	27.00	.30	7389.00	504.00	17320.00	67.00
456602	103.00	4.60	5.00	1.00	46710.00	4.70	16630.00	30.00	.40	8993.00	913.00	13790.00	79.00
456603	109.00	3.90	5.00	1.00	48840.00	5.30	17580.00	30.00	.40	10390.00	1082.00	12790.00	77.00
456604	88.00	2.70	4.00	.90	45290.00	4.90	13280.00	23.00	.30	8734.00	773.00	17430.00	50.00
456605	86.00	3.10	4.00	1.00	33800.00	6.60	8042.00	26.00	.30	6092.00	544.00	16620.00	76.00
456606	81.00	4.20	4.00	1.10	37940.00	6.00	17400.00	32.00	.30	8061.00	854.00	13770.00	70.00
456607	94.00	2.40	4.00	.80	36580.00	8.00	11060.00	23.00	.30	7685.00	298.00	18370.00	42.00
456608	86.00	2.60	4.00	.80	36720.00	5.30	10070.00	21.00	.30	6332.00	540.00	17130.00	51.00
456609	109.00	5.30	4.00	1.30	56510.00	5.00	19680.00	37.00	.40	8863.00	1463.00	12580.00	63.00
456610	92.00	3.50	5.00	1.20	44920.00	5.30	17020.00	24.00	.30	7504.00	836.00	13990.00	54.00
456611	114.00	3.70	5.00	1.00	40190.00	6.20	14430.00	29.00	.30	9781.00	980.00	12300.00	44.00
456612	90.00	3.40	4.00	.90	39810.00	6.50	14300.00	24.00	.40	8255.00	890.00	13720.00	63.00
456613	183.00	3.60	4.00	1.00	40790.00	7.10	17030.00	28.00	.30	11050.00	934.00	12720.00	69.00
456614	221.00	3.20	4.00	.90	28160.00	7.20	10660.00	22.00	.30	8954.00	200.00	13990.00	68.00
456615	379.00	3.60	5.00	.90	37280.00	7.40	17090.00	29.00	.40	10750.00	730.00	11290.00	75.00
456616	249.00	4.70	5.00	1.00	43320.00	5.80	21500.00	26.00	.40	6905.00	678.00	12320.00	74.00
456617	121.00	5.40	5.00	1.30	49010.00	6.10	17520.00	36.00	.50	8770.00	697.00	10600.00	95.00
456618	112.00	2.90	4.00	.90	43870.00	4.90	15870.00	26.00	.30	8108.00	781.00	12590.00	60.00
456619	231.00	3.20	4.00	1.10	39150.00	5.70	12480.00	25.00	.30	9018.00	765.00	12680.00	65.00
456620	96.00	3.80	5.00	1.00	41410.00	6.90	13120.00	28.00	.40	6279.00	976.00	12490.00	76.00
456621	91.00	4.10	4.00	.90	36650.00	7.70	13690.00	26.00	.50	5730.00	472.00	13420.00	76.00
456622	86.00	4.60	4.00	1.10	40230.00	5.50	18500.00	26.00	.30	6590.00	579.00	12420.00	55.00
456623	110.00	4.40	5.00	1.00	39710.00	7.40	17050.00	28.00	.40	6467.00	569.00	12580.00	74.00
456624	158.00	2.60	4.00	.80	30810.00	4.20	11340.00	25.00	.30	7024.00	385.00	9765.00	43.00
456625	103.00	3.30	3.00	.50	17930.00	6.70	9149.00	16.00	.20	14460.00	314.00	6660.00	-24.00
456626	72.00	5.00	4.00	.50	23630.00	4.10	8626.00	22.00	.20	3579.00	647.00	9115.00	67.00
456627	89.00	3.00	4.00	.70	29380.00	7.00	9010.00	20.00	.30	3948.00	143.00	10580.00	-24.00
456628	35.00	2.80	3.00	.70	11260.00	2.30	-9630.00	19.00	.20	-8699.00	435.00	3339.00	-37.00
456629	93.00	5.20	5.00	1.20	41810.00	6.60	18360.00	31.00	.40	6979.00	783.00	13090.00	-35.00
456630	103.00	2.40	2.00	.90	30110.00	9.10	12940.00	22.00	.30	6829.00	522.00	15780.00	47.00
456631	42.00	-2.50	4.00	.80	58470.00	4.30	6340.00	-9.00	-.20	4374.00	277.00	2449.00	-55.00
456632	71.00	6.40	5.00	1.10	35910.00	5.50	22250.00	36.00	.40	7663.00	707.00	4144.00	90.00
456633	95.00	7.50	7.00	1.70	45150.00	6.70	20030.00	46.00	.50	12300.00	760.00	8796.00	115.00
456634	71.00	10.20	6.00	1.00	30110.00	7.70	15860.00	34.00	.40	4430.00	736.00	2541.00	89.00
456635	79.00	9.10	8.00	1.30	32780.00	13.90	18810.00	42.00	.50	6219.00	974.00	2777.00	91.00
456636	67.00	8.50	6.00	1.00	29640.00	7.50	15870.00	36.00	.40	9051.00	685.00	4096.00	98.00
456637	46.00	4.70	3.00	.80	14350.00	2.50	5256.00	21.00	.30	40310.00	726.00	1616.00	-24.00
456638	48.00	5.10	4.00	.70	19100.00	3.20	10250.00	21.00	.30	25380.00	957.00	3394.00	39.00

SAMPLE NO.	SB PPM	SC PPM	SN PPM	SR PPM	TA PPM	TB PPM	TH PPM	TI PPM	V PPM	YB PPM	ZN PPM	TH/U RATIO
456589	-1.00	15.40	4.40	-299.00	-1.00	-1.00	9.30	4939.00	188.00	4.30	-37.00	3.34400
456590	4.00	14.30	4.80	-160.00	2.00	-1.00	9.90	4605.00	122.00	3.80	109.00	3.24700
456591	-1.00	10.30	3.40	-174.00	-1.00	-1.00	6.40	4042.00	109.00	3.60	107.00	2.71000
456592	-2.00	11.00	3.40	-165.00	-1.00	-1.00	7.50	3806.00	127.00	4.00	-28.00	3.16500
456593	-1.00	13.20	3.60	-233.00	1.00	1.00	8.60	3772.00	147.00	4.30	-28.00	3.39000
456594	-2.00	9.30	2.80	-121.00	-1.00	-1.00	6.20	4129.00	94.00	2.90	162.00	2.90700
456595	-2.00	9.10	2.00	-186.00	-2.00	-1.00	6.00	3854.00	94.00	-2.20	-38.00	3.25700
456596	-1.00	9.90	2.80	-227.00	-9999.00	-9999.00	5.90	4756.00	108.00	3.00	-27.00	2.71000
456597	-2.00	11.40	4.20	-124.00	-1.00	-1.00	7.20	4366.00	122.00	4.50	139.00	3.13500
456598	-1.00	10.90	3.90	-147.00	-1.00	-1.00	6.40	4103.00	122.00	1.60	80.00	2.78600
456599	-2.00	10.70	3.80	-206.00	-1.00	-1.00	6.90	4304.00	114.00	4.20	70.00	2.53800
456600	-1.00	11.50	3.30	-254.00	1.00	-9999.00	7.10	4114.00	127.00	2.90	-19.00	2.92400
456601	-1.00	11.20	3.20	-131.00	-1.00	-1.00	6.00	4098.00	110.00	-1.20	194.00	2.96700
456602	-1.00	14.10	4.60	-233.00	-1.00	-1.00	7.80	5300.00	163.00	3.40	-24.00	2.88200
456603	-2.00	14.40	5.00	-269.00	-1.00	-1.00	9.40	4417.00	156.00	3.60	-14.00	3.57900
456604	-1.00	11.70	3.10	-285.00	-1.00	-9999.00	6.00	4942.00	126.00	3.80	68.00	2.64600
456605	-2.00	10.70	3.00	-142.00	-1.00	-1.00	6.70	4396.00	106.00	3.40	80.00	3.00300
456606	-1.00	12.70	4.20	-232.00	-1.00	-1.00	8.00	4418.00	140.00	4.60	111.00	2.95000
456607	-2.00	10.00	2.90	-171.00	-1.00	1.00	5.20	5130.00	105.00	3.60	-29.00	2.48800
456608	-1.00	10.60	3.20	-265.00	-1.00	1.00	5.60	4086.00	111.00	3.60	41.00	2.54500
456609	-2.00	17.10	4.80	-216.00	-1.00	-1.00	10.30	5208.00	167.00	5.10	97.00	3.70400
456610	-2.00	12.90	4.30	-202.00	-1.00	1.00	7.10	5756.00	141.00	3.60	97.00	2.76200
456611	-2.00	12.10	3.60	-198.00	-1.00	-1.00	7.40	3929.00	137.00	3.90	-58.00	3.23600
456612	-1.00	11.60	3.50	-229.00	-1.00	-9999.00	7.20	4432.00	134.00	3.60	26.60	2.92400
456613	-2.00	13.20	3.80	-171.00	-1.00	-1.00	9.00	4223.00	124.00	4.00	-39.00	3.98400
456614	-1.00	10.30	3.20	-161.00	-1.00	-1.00	5.70	4987.00	118.00	2.90	69.00	2.63900
456615	-2.00	13.80	3.30	-238.00	-1.00	-1.00	6.40	3790.00	130.00	3.50	-39.00	2.70300
456616	-1.00	14.10	4.20	-283.00	-1.00	1.00	9.00	4508.00	155.00	4.40	-23.00	3.41400
456617	-2.00	15.30	5.00	-161.00	-1.00	-1.00	11.10	5575.00	179.00	3.50	99.00	4.08200
456618	-1.00	11.20	3.50	-214.00	-1.00	1.00	7.60	4281.00	156.00	2.70	-42.00	3.47200
456619	-2.00	12.20	3.60	-214.00	-1.00	-1.00	7.70	4307.00	121.00	4.40	-33.00	3.55900
456620	-1.00	12.10	3.70	-349.00	-1.00	1.00	8.30	4555.00	138.00	5.60	56.00	3.18500
456621	-2.00	11.00	3.80	-137.00	-1.00	-1.00	7.60	3885.00	122.00	3.90	85.00	3.30000
456622	-1.00	12.70	3.50	-191.00	-1.00	-1.00	7.80	4459.00	138.00	3.60	88.00	3.22600
456623	-2.00	13.40	4.50	-191.00	-1.00	-1.00	8.30	3922.00	137.00	4.10	98.00	3.02100
456624	-1.00	10.40	2.50	-278.00	-1.00	-1.00	6.00	3359.00	116.00	3.80	43.00	2.70300
456625	-1.00	6.50	2.50	-105.00	-1.00	-1.00	4.60	2635.00	68.00	1.60	145.00	2.29900
456626	-1.00	8.00	2.40	-202.00	-1.00	-9999.00	5.20	3566.00	92.00	-1.40	162.00	2.13200
456627	-2.00	7.90	4.00	-149.00	-1.00	-1.00	7.00	3584.00	71.00	3.60	89.00	3.26800
456628	-2.00	5.00	2.30	-470.00	-1.00	-1.00	4.10	-9999.00	41.00	-1.70	-47.00	2.37000
456629	-2.00	14.90	5.00	-172.00	-1.00	-1.00	9.70	5056.00	140.00	4.90	-60.00	3.42500
456630	-1.00	9.40	3.00	-180.00	-1.00	-9999.00	5.10	4102.00	103.00	2.70	62.00	2.33100
456631	-3.00	7.00	2.50	-277.00	-3.00	-1.00	7.10	-9999.00	59.00	-3.30	292.00	3.22600
456632	4.00	12.10	4.40	-261.00	1.00	-1.00	10.30	3812.00	129.00	4.20	81.00	2.97600
456633	-2.00	17.50	6.50	-166.00	-1.00	-1.00	14.60	5066.00	132.00	6.30	81.00	3.73100
456634	7.00	11.10	4.50	-208.00	-1.00	-1.00	9.80	4557.00	124.00	4.80	152.00	1.93100
456635	5.00	13.40	6.70	-185.00	-1.00	-1.00	13.60	5249.00	118.00	7.10	78.00	3.22600
456636	4.00	11.20	4.60	-288.00	1.00	-1.00	11.20	3997.00	103.00	5.80	-27.00	3.59700
456637	-1.00	5.30	2.00	-144.00	-1.00	-999.00	3.10	1465.00	68.00	2.20	228.00	.89800
456638	-2.00	7.10	2.60	-282.00	-1.00	..00	5.50	2155.00	93.00	4.00	234.00	1.32500

SAMPLE NO.	LAT.	LONG.	PH	COND.	SCINT.	URANIUM PPM	SILVER PPM	BISMUTH PPM	CADMIUM PPM	COPPER PPM	NIOBIUM PPM	NICKEL PPM	LEAD PPM	TIN PPM	TUNGSTEN PPM
456639	68.7689	166..597	6.	181.0	6.	3.27	-5.00	-5.00	-5.00	23.00	-20.00	38.00	10.00	-10.00	-15.00
456640	68.7919	166.1796	6.	643.0	10.	1.96	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00
456641	68.8931	166.1811	7.	162.0	10.	3.39	-5.00	-5.00	-5.00	23.00	-20.00	39.00	-5.00	-10.00	-15.00
456642	68.8667	166.0831	6.	140.0	7.	3.77	-5.00	-5.00	-5.00	48.00	-20.00	68.00	7.00	-10.00	21.00
456643	68.8631	165.9808	8.	251.0	21.	2.39	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00
456644	68.8542	165.8350	6.	176.0	6.	3.15	-5.00	-5.00	-5.00	38.00	-20.00	58.00	13.00	-10.00	-15.00
456645	68.8478	165.8131	7.	135.0	14.	2.83	-5.00	-5.00	-5.00	41.00	-20.00	50.00	13.00	-10.00	19.00
456646	68.8475	165.7583	6.	227.0	10.	2.98	-5.00	-5.00	-5.00	41.00	-20.00	40.00	10.00	-10.00	-15.00
456647	68.8439	165.6119	6.	203.0	12.	3.27	-5.00	-5.00	-5.00	33.00	-20.00	40.00	10.00	-10.00	-15.00
456648	68.8475	165.5303	6.	201.0	6.	2.59	-5.00	-5.00	-5.00	32.00	-20.00	38.00	11.00	-10.00	-15.00
456649	68.8475	165.4314	6.	108.0	10.	2.71	-5.00	-5.00	-5.00	23.00	-20.00	43.00	8.00	-10.00	-15.00
456650	68.8542	165.3083	6.	47.0	10.	2.47	-5.00	-5.00	-5.00	28.00	-20.00	33.00	15.00	-10.00	-15.00
456651	68.8597	165.2306	6.	151.0	18.	2.92	-5.00	-5.00	-5.00	26.00	-20.00	30.00	6.00	-10.00	-15.00
456652	68.8594	165.2464	6.	161.0	18.	2.46	-5.00	-5.00	-5.00	25.00	-20.00	32.00	12.00	-10.00	-15.00
456653	68.8608	165.1411	6.	108.0	14.	2.29	-5.00	-5.00	-5.00	34.00	-20.00	32.00	11.00	-10.00	-15.00
456654	68.8633	165.0625	6.	144.0	14.	2.37	-5.00	-5.00	-5.00	28.00	-20.00	27.00	12.00	-10.00	-15.00
456655	68.8206	165.0483	6.	47.0	10.	2.30	-5.00	-5.00	-5.00	28.00	-20.00	34.00	9.00	-10.00	-15.00
456656	68.7967	165.1581	6.	125.0	15.	2.74	-5.00	-5.00	-5.00	29.00	-20.00	37.00	9.00	-10.00	-15.00
456657	68.7994	165.2458	6.	82.0	7.	2.60	-5.00	-5.00	-5.00	32.00	-20.00	28.00	11.00	-10.00	-15.00
456658	68.8017	165.3461	6.	49.0	6.	2.23	-5.00	-5.00	-5.00	23.00	-20.00	28.00	-5.00	-10.00	-15.00
456659	68.7883	165.4744	6.	31.0	6.	2.37	-5.00	-5.00	-5.00	29.00	-20.00	39.00	14.00	-10.00	-15.00
456660	68.7872	165.4847	6.	127.0	6.	2.61	-5.00	-5.00	-5.00	27.00	-20.00	37.00	13.00	-10.00	-15.00
456661	68.8136	165.6478	6.	65.0	17.	3.53	-5.00	-5.00	-5.00	54.00	-20.00	45.00	18.00	-10.00	-15.00
456662	68.8000	165.7522	5.	347.0	15.	2.56	-5.00	-5.00	11.00	37.00	-20.00	45.00	10.00	-10.00	-15.00
456663	68.8014	165.7617	6.	166.0	15.	3.33	-5.00	-5.00	-5.00	48.00	-20.00	52.00	11.00	-10.00	-15.00
456664	68.7894	165.[illegible]628	6.	98.0	15.	4.21	-5.00	-5.00	-5.00	32.00	-20.00	48.00	-5.00	-10.00	-15.00
456665	68.7956	1[illegible]569	6.	133.0	9.	4.75	-5.00	-5.00	-5.00	36.00	-20.00	61.00	8.00	-10.00	-15.00
456666	68.8108	166.[illegible]644	6.	108.0	1.	4.54	-5.00	-5.00	-5.00	43.00	-20.00	68.00	5.00	-10.00	-15.00
456667	68.7592	166.0342	-9999.	-9999.0	17.	3.29	-5.00	-5.00	-5.00	23.00	-20.00	19.00	-5.00	-10.00	-15.00
456668	68.7242	166.0897	-9999.	-9999.0	18.	5.78	-5.00	-5.00	-5.00	25.00	-20.00	63.00	180.00	-10.00	-15.00
456669	68.7158	166.0339	-9999.	-9999.0	10.	3.59	-5.00	-5.00	-5.00	25.00	-20.00	46.00	7.00	-10.00	-15.00
456670	68.5044	166.1181	6.	152.0	17.	3.49	-5.00	-5.00	-5.00	34.00	-20.00	48.00	11.00	-10.00	17.00
456671	68.5117	166.0472	7.	153.0	17.	3.54	-5.00	-5.00	-5.00	34.00	-20.00	42.00	10.00	-10.00	-15.00
456672	68.4794	166.0400	6.	235.0	14.	2.68	-5.00	-5.00	-5.00	20.00	-20.00	22.00	10.00	-10.00	-15.00
456673	68.4489	166.1317	6.	236.0	15.	2.49	-5.00	-5.00	-5.00	24.00	-20.00	39.00	7.00	-10.00	-15.00
456674	68.4272	166.0900	7.	83.0	15.	2.91	-5.00	-5.00	-5.00	30.00	-20.00	34.00	11.00	-10.00	-15.00
456675	68.4092	166.0411	7.	18.0	17.	2.45	-5.00	-5.00	-5.00	22.00	-20.00	27.00	-5.00	-10.00	-15.00
456676	68.3908	166.0292	7.	14.0	10.	2.66	-5.00	-5.00	-5.00	21.00	-20.00	31.00	-5.00	-10.00	-15.00
456677	68.3569	166.0267	8.	13.0	17.	2.29	-5.00	-5.00	-5.00	16.00	-20.00	31.00	5.00	-10.00	-15.00
456678	69.3067	166.0142	6.	168.0	17.	2.27	-5.00	-5.00	-5.00	14.00	-20.00	48.00	8.00	-10.00	-15.00
456679	68.2869	166.0086	6.	154.0	14.	2.28	-5.00	-5.00	-5.00	10.00	-20.00	26.00	-5.00	-10.00	-15.00
456680	68.1381	165.7269	6.	115.0	12.	2.23	-5.00	-5.00	-5.00	30.00	-20.00	29.00	9.00	-10.00	-15.00
456681	68.1833	165.6597	6.	52.0	7.	2.28	-5.00	-5.00	-5.00	24.00	-20.00	23.00	-5.00	-10.00	-15.00
456682	68.2203	165.6586	6.	6.0	1.	.61	-5.00	-5.00	-5.00	39.00	-20.00	35.00	-5.00	-10.00	-15.00
456683	68.2394	165.5889	7.	12.0	17.	2.61	-5.00	-5.00	-5.00	48.00	-20.00	46.00	16.00	-10.00	-15.00
456684	68.2736	165.5579	6.	118.0	17.	2.24	-5.00	-5.00	-5.00	23.00	-20.00	36.00	9.00	-10.00	-15.00
456685	68.3047	165.4844	6.	95.0	10.	2.46	-5.00	-5.00	-5.00	26.00	-20.00	33.00	11.00	-10.00	-15.00
456686	68.3356	165.4344	8.	101.0	4.	2.69	-5.00	-5.00	-5.00	25.00	-20.00	33.00	6.00	-10.00	-15.00
456687	68.3717	165.4483	6.	27.0	7.	2.45	-5.00	-5.00	-5.00	25.00	-20.00	41.00	8.00	-10.00	-15.00
456688	68.3842	165.4894	6.	155.0	17.	3.01	-5.00	-5.00	-5.00	44.00	-20.00	43.00	12.00	-10.00	-15.00

SAMPLE NO.	AS PPM	SE PPM	ZR PPM	MO PPM	BE PPM	LI PPM	AL PPM	AU PPM	BA PPM	CA PPM	CE PPM	CL PPM	CD PPM
456639	9.00	-5.00	117.00	-9999.00	-9999.00	-9999.00	41720.00	-.09	-200.00	26090.00	50.00	233.00	11.20
456640	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	23750.00	-.03	637.00	33400.00	22.00	565.00	9.80
456641	14.00	-5.00	139.00	-9999.00	-9999.00	-9999.00	35490.00	-.05	646.00	87550.00	39.00	163.00	29.30
456642	10.00	-5.00	123.00	-9999.00	-9999.00	-9999.00	43230.00	-.05	4573.00	30050.00	41.00	-93.00	20.40
456643	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	-9999.00	42230.00	-.05	4791.00	8264.00	96.00	1921.00	13.30
456644	16.00	-5.00	160.00	-9999.00	-9999.00	-9999.00	69030.00	-.03	2115.00	10710.00	53.00	-106.00	17.30
456645	28.00	-5.00	151.00	-9999.00	-9999.00	-9999.00	78810.00	-.05	1864.00	9220.00	60.00	-113.00	28.00
456646	26.00	-5.00	184.00	-9999.00	-9999.00	-9999.00	67700.00	-.07	1697.00	12580.00	60.00	-104.00	17.30
456647	32.00	-5.00	180.00	-9999.00	-9999.00	-9999.00	79640.00	-.03	852.00	1484.00	63.00	310.00	13.40
456648	23.00	-5.00	219.00	-9999.00	-9999.00	-9999.00	68390.00	-.06	1036.00	3700.00	54.00	-95.00	31.20
456649	27.00	-5.00	195.00	-9999.00	-9999.00	-9999.00	67120.00	-.06	535.00	-905.00	54.00	-97.00	23.60
456650	17.00	-5.00	207.00	-9999.00	-9999.00	-9999.00	65300.00	-.07	457.00	3314.00	54.00	-100.00	15.70
456651	22.00	-5.00	268.00	-9999.00	-9999.00	-9999.00	49130.00	-.03	398.00	4372.00	36.00	-80.00	15.20
456652	22.00	-5.00	211.00	-9999.00	-9999.00	-9999.00	59550.00	-.06	489.00	2696.00	50.00	-85.00	29.90
456653	19.00	-5.00	159.00	-9999.00	-9999.00	-9999.00	58760.00	-.05	427.00	2741.00	50.00	-90.00	19.40
456654	19.00	-5.00	194.00	-9999.00	-9999.00	-9999.00	57220.00	-.07	422.00	-793.00	47.00	-94.00	13.40
456655	19.00	-5.00	230.00	-9999.00	-9999.00	-9999.00	55330.00	-.03	494.00	2963.00	46.00	-96.00	18.10
456656	24.00	-5.00	193.00	-9999.00	-9999.00	-9999.00	60840.00	-.07	586.00	4025.00	59.00	-98.00	34.90
456657	23.00	-5.00	211.00	-9999.00	-9999.00	-9999.00	69970.00	-.06	479.00	-896.00	53.00	-95.00	20.20
456658	16.00	-5.00	194.00	-9999.00	-9999.00	-9999.00	57250.00	-.07	471.00	-755.00	57.00	-101.00	11.10
456659	22.00	-5.00	165.00	-9999.00	-9999.00	-9999.00	61540.00	-.03	442.00	2981.00	46.00	-92.00	16.40
456660	27.00	-5.00	180.00	-9999.00	-9999.00	-9999.00	67580.00	-.07	451.00	3429.00	64.00	-97.00	36.20
456661	59.00	7.00	153.00	-9999.00	-9999.00	-9999.00	73800.00	-.06	724.00	-1242.00	81.00	-115.00	31.20
456662	19.00	-5.00	154.00	-9999.00	-9999.00	-9999.00	70690.00	-.07	573.00	4293.00	75.00	-111.00	18.10
456663	24.00	-5.00	140.00	-9999.00	-9999.00	-9999.00	68520.00	-.04	1694.00	15570.00	58.00	-97.00	18.10
456664	14.00	-5.00	122.00	-9999.00	-9999.00	-9999.00	29240.00	-.07	1575.00	66720.00	35.00	-73.00	33.30
456665	21.00	-5.00	187.00	-9999.00	-9999.00	-9999.00	48330.00	-.06	1351.00	21630.00	53.00	-67.00	20.70
456666	9.00	-5.00	121.00	-9999.00	-9999.00	-9999.00	31260.00	-.08	1380.00	77470.00	41.00	-91.00	16.20
456667	10.00	-5.00	58.00	-9999.00	-9999.00	-9999.00	13400.00	-.02	318.00	210300.00	14.00	-67.00	7.50
456668	-5.00	-5.00	98.00	-9999.00	-9999.00	-9999.00	21960.00	-.07	493.00	84130.00	28.00	-116.00	33.00
456669	12.00	-5.00	52.00	-9999.00	-9999.00	-9999.00	18110.00	-.04	774.00	109900.00	24.00	-64.00	12.50
456670	15.00	-5.00	178.00	-9999.00	-9999.00	-9999.00	68140.00	-.07	1046.00	17720.00	82.00	-63.00	18.00
456671	15.00	-5.00	159.00	-9999.00	-9999.00	-9999.00	56790.00	-.03	774.00	15500.00	60.00	-98.00	16.70
456672	9.00	-5.00	150.00	-9999.00	-9999.00	-9999.00	36930.00	-.06	361.00	68820.00	41.00	-77.00	32.70
456673	10.00	-5.00	153.00	-9999.00	-9999.00	-9999.00	51390.00	-.05	476.00	47570.00	58.00	-73.00	19.40
456674	5.00	-5.00	150.00	-9999.00	-9999.00	-9999.00	55920.00	-.09	403.00	5823.00	73.00	-85.00	19.50
456675	11.00	-5.00	187.00	-9999.00	-9999.00	-9999.00	49380.00	-.03	505.00	8156.00	42.00	-85.00	15.50
456676	10.00	-5.00	209.00	-9999.00	-9999.00	-9999.00	53550.00	-.07	433.00	-811.00	59.00	-90.00	37.90
456677	8.00	-5.00	214.00	-9999.00	-9999.00	-9999.00	46910.00	-.03	394.00	-882.00	52.00	-98.00	16.70
456678	8.00	-5.00	167.00	-9999.00	-9999.00	-9999.00	47750.00	-.06	202.00	9375.00	39.00	-82.00	12.20
456679	7.00	-5.00	194.00	-9999.00	-9999.00	-9999.00	43170.00	-.03	369.00	8060.00	29.00	-87.00	12.70
456680	20.00	-5.00	247.00	-9999.00	-9999.00	-9999.00	57730.00	-.06	466.00	4834.00	52.00	-89.00	30.00
456681	21.00	-5.00	126.00	-9999.00	-9999.00	-9999.00	67240.00	-.08	424.00	-1030.00	52.00	241.00	29.20
456682	10.00	-5.00	32.00	-9999.00	-9999.00	-9999.00	9283.00	-.25	-727.00	-3424.00	-30.00	727.00	33.10
456683	35.00	-5.00	192.00	-9999.00	-9999.00	-9999.00	77120.00	-.04	397.00	2375.00	64.00	-95.00	21.90
456684	14.00	-5.00	165.00	-9999.00	-9999.00	-9999.00	61190.00	-.06	572.00	4171.00	52.00	-93.00	20.60
456685	16.00	-5.00	209.00	-9999.00	-9999.00	-9999.00	68290.00	-.06	446.00	6297.00	60.00	-107.00	23.60
456686	20.00	-5.00	193.00	-9999.00	-9999.00	-9999.00	70760.00	-.08	621.00	3097.00	65.00	-113.00	17.40
456687	19.00	-5.00	173.00	-9999.00	-9999.00	-9999.00	71920.00	-.03	482.00	2606.00	54.00	-85.00	18.30
456688	21.00	-5.00	169.00	-9999.00	-9999.00	-9999.00	56880.00	-.06	2960.00	42130.00	52.00	-92.00	30.40

SAMPLE NO.	CR PPM	CS PPM	DY PPM	EU PPM	FE PPM	HF PPM	K PPM	LA PPM	LU PPM	MG PPM	MN PPM	NA PPM	ND PPM	
456639	66.00	0.90	3.00	.90	21430.00	4.30	11120.00	23.00	.40	6976.00	449.00	3983.00	68.00	
456640	126.00	2.00	3.00	.40	18600.00	5.00	5130.00	15.00	.20	8711.00	306.00	6736.00	-17.00	
456641	71.00	4.00	4.00	.90	18490.00	4.90	10540.00	23.00	.30	32460.00	382.00	3744.00	-26.00	
456642	66.00	4.30	5.00	1.50	22570.00	4.70	12810.00	31.00	.40	15560.00	936.00	5242.00	72.00	
456643	229.00	3.20	4.00	1.00	40210.00	15.80	8463.00	26.00	.30	5062.00	539.00	10270.00	-22.00	
456644	79.00	4.60	5.00	1.20	35750.00	5.80	17600.00	33.00	.40	8599.00	661.00	11470.00	75.00	
456645	78.00	3.70	5.00	.90	44230.00	4.10	17330.00	31.00	.40	6201.00	1511.00	10360.00	79.00	
456646	84.00	4.60	4.00	1.60	41190.00	7.20	17460.00	31.00	.30	8387.00	721.00	12100.00	-40.00	
456647	99.00	5.10	5.00	1.30	39130.00	5.50	20310.00	36.00	.40	5121.00	821.00	10320.00	81.00	
456648	78.00	5.00	4.00	1.50	39160.00	8.20	13050.00	31.00	.40	5903.00	682.00	13270.00	-40.00	
456649	82.00	5.00	5.00	1.20	33600.00	6.10	17530.00	24.00	.30	6143.00	919.00	12340.00	74.00	
456650	77.00	3.40	4.00	1.00	33400.00	7.10	15700.00	30.00	.30	4604.00	444.00	13670.00	-36.00	
456651	84.00	2.60	4.00	.80	29990.00	9.90	10450.00	23.00	.30	3562.00	484.00	13530.00	51.00	
456652	82.00	3.60	4.00	1.30	32060.00	8.00	14780.00	29.00	.30	5275.00	507.00	12970.00	-37.00	
456653	73.00	3.10	4.00	.90	32490.00	5.00	14600.00	26.00	.30	4394.00	589.00	11950.00	-30.00	
456654	82.00	4.30	5.00	1.10	30480.00	7.40	14870.00	24.00	.30	4864.00	309.00	13140.00	43.00	
456655	89.00	2.90	4.00	.90	32850.00	7.90	12740.00	22.00	.30	5056.00	563.00	13330.00	60.00	
456656	83.00	4.50	4.00	1.20	34210.00	8.20	15570.00	29.00	.40	6580.00	596.00	12610.00	-45.00	
456657	81.00	3.80	5.00	1.00	32450.00	6.60	14820.00	31.00	.30	5270.00	498.00	11590.00	-36.00	
456658	73.00	3.10	4.00	1.10	22460.00	7.30	12570.00	20.00	.30	5622.00	172.00	[illegible]	-39.00	
456659	74.00	3.70	4.00	1.10	37040.00	5.70	12480.00	27.00	.30	4346.00	644.00	[illegible]	55.00	
456660	84.00	3.30	4.00	1.20	41720.00	5.90	15570.00	35.00	.30	5077.00	704.00	[illegible]	-47.00	
456661	82.00	4.50	5.00	1.70	47840.00	5.00	20390.00	33.00	.30	5672.00	1259.00	[illegible]	-37.00	
456662	73.00	4.80	4.00	1.10	39660.00	6.60	15270.00	33.00	.30	5147.00	821.00	13610.00	75.00	
456663	79.00	4.40	5.00	.90	40050.00	4.90	17240.00	34.00	.40	11170.00	791.00	10900.00	72.00	
456664	69.00	3.90	5.00	1.00	19560.00	5.00	7677.00	26.00	.40	27760.00	568.00	3098.00	-47.00	
456665	78.00	5.60	7.00	1.60	32690.00	6.90	15870.00	35.00	.40	9695.00	281.00	4352.00	82.00	
456666	79.00	3.60	5.00	1.40	19250.00	5.10	11190.00	33.00	.40	28930.00	881.00	3391.00	-40.00	
456667	29.00	2.30	2.00	.40	13250.00	1.10	4539.00	15.00	.20	18930.00	714.00	706.00	-15.00	
456668	53.00	6.90	5.00	.80	22800.00	3.20	-6055.00	24.00	-.10	30830.00	2396.00	2172.00	-43.00	
456669	37.00	3.00	3.00	.70	14240.00	1.50	-2922.00	20.00	.20	29140.00	814.00	1255.00	-24.00	
456670	87.00	7.70	6.00	1.20	30960.00	6.60	16790.00	40.00	.40	8158.00	735.00	3020.00	106.00	
456671	67.00	7.30	5.00	1.10	32790.00	5.80	17510.00	35.00	.40	9620.00	708.00	3033.00	86.00	
456672	67.00	4.30	4.00	.90	21860.00	5.80	9334.00	24.00	.40	38940.00	620.00	4037.00	79.00	
456673	54.00	4.40	5.00	1.10	29750.00	5.50	14240.00	28.00	.30	20750.00	703.00	4036.00	98.00	
456674	89.00	4.60	5.00	1.20	31410.00	7.70	15650.00	30.00	.40	4438.00	764.00	4668.00	-47.00	
456675	78.00	3.40	5.00	.80	28490.00	6.50	10380.00	26.00	.40	4708.00	555.00	9125.00	62.00	
456676	98.00	5.30	5.00	1.30	34400.00	9.10	10010.00	33.00	.50	4579.00	673.00	8705.00	-46.00	
456677	80.00	3.20	4.00	.80	25790.00	7.80	7800.00	20.00	.30	3907.00	653.00	10230.00	54.00	
456678	110.00	3.20	3.90	.80	26070.00	6.00	9369.00	20.00	.30	3465.00	252.00	11440.00	62.00	
456679	109.00	2.50	4.00	.60	22230.00	6.30	9621.00	20.00	.30	5736.00	417.00	12830.00	-20.00	
456680	135.00	4.10	4.00	1.40	32350.00	10.90	13670.00	30.00	.30	6206.00	573.00	13910.00	-34.00	
456681	64.00	5.30	5.00	.90	59010.00	4.30	14200.00	23.00	.30	6471.00	553.00	9223.00	-50.00	
456682	-41.00	-6.20	-6.00	-1.40	14050.00	-5.10	-8991.00	-23.00	-.50	-4350.00	793.00	1377.00	-136.00	
456683	98.00	5.00	5.00	1.10	43960.00	7.50	16660.00	28.00	.30	7341.00	947.00	10250.00	86.00	
456684	93.00	3.50	4.00	1.10	36830.00	7.20	11960.00	28.00	.30	5913.00	543.00	19060.00	-38.00	
456685	87.00	4.90	5.00	1.00	34800.00	6.70	13940.00	26.00	.20	5265.00	664.00	12570.00	-39.00	
456686	88.00	4.70	4.00	1.50	37960.00	7.50	12140.00	33.00	.40	6542.00	666.00	13180.00	-42.00	
456687	98.00	4.40	4.00	.90	44560.00	9.10	19190.00	26.00	.30	7563.00	961.00	12460.00	87.00	
456688	100.00	4.50	4.00	1.60	33720.00	6.30	14740.00	26.00	.40	15820.00	546.00	9044.00	-34.00	

SAMPLE NO.	SB PPM	SC PPM	SN PPM	SR PPM	TA PPM	TB PPM	TH PPM	TI PPM	V PPM	YB PPM	ZN PPM	TH/U RATIO
456639	-3.00	9.40	3.80	-241.00	-1.00	-1.00	5.70	3197.00	95.00	3.80	104.00	1.74200
456640	-1.00	4.60	1.60	-236.00	-1.00	-9999.00	3.20	1926.00	56.00	1.60	64.00	1.63400
456641	-2.00	7.90	3.50	-120.00	-1.00	-1.00	6.80	2518.00	92.00	4.30	156.00	2.00400
456642	-2.00	10.70	3.50	-246.00	-1.00	-1.00	5.40	2719.00	124.00	3.10	-103.00	1.43300
456643	-1.00	9.40	2.70	-168.00	-1.00	-9999.00	5.50	2250.00	102.00	3.10	-51.00	2.29900
456644	-1.00	12.30	3.90	-296.00	-1.00	-1.00	7.70	3662.00	144.00	4.60	177.00	2.44500
456645	-2.00	13.10	4.30	-298.00	-1.00	-1.00	9.20	3660.00	161.00	3.60	134.00	3.24700
456646	-2.00	13.00	3.40	-280.00	-2.00	-1.00	7.40	3116.00	155.00	4.10	134.00	2.48100
456647	-1.00	14.40	4.00	-108.00	-1.00	1.00	9.20	3147.00	173.00	4.50	-30.00	2.81700
456648	-2.00	12.30	4.20	-192.00	-2.00	-1.00	7.50	4044.00	116.00	4.70	-126.00	2.89900
456649	-2.00	11.60	3.80	-201.00	-2.00	-1.00	8.10	4781.00	130.00	2.90	87.00	2.98500
456650	-2.00	10.60	3.90	-239.00	-1.00	-1.00	8.80	3494.00	104.00	3.90	-42.00	3.55900
456651	-1.00	8.10	2.70	-116.00	-1.00	-1.00	6.10	3810.00	76.00	2.80	-42.00	2.63200
456652	-2.00	10.20	3.70	-170.00	-1.00	-1.00	8.60	3759.00	92.00	3.06	-43.00	3.49700
456653	-2.00	9.80	3.50	-189.00	-1.00	-1.00	6.80	3047.00	104.00	3.10	-101.00	2.96700
456654	-2.00	9.70	3.50	-[illegible]	-1.00	-1.00	7.80	3703.00	98.00	-1.90	94.00	3.20900
456655	-1.00	9.40	3.00	-[illegible]	-1.00	-1.00	6.60	3599.00	92.00	3.00	-29.00	2.87400
456656	-2.00	11.20	4.10	-[illegible]	-2.00	-1.00	8.40	3876.00	106.00	6.30	112.00	3.06700
456657	-2.00	11.00	4.60	-[illegible]	-1.00	-1.00	7.60	3899.00	124.00	3.40	176.00	[illegible]84900
456658	-2.00	9.30	3.50	-[illegible]	-1.00	-1.00	7.20	3238.00	98.00	4.20	-106.00	3.22600
456659	-1.00	10.30	3.90	-[illegible]	-1.00	-1.00	7.80	3209.00	105.00	3.60	66.00	3.24000
456660	2.00	12.40	3.90	-[illegible]	-2.00	-1.00	8.60	4114.00	139.00	3.00	156.00	3.30000
456661	3.00	13.80	4.90	-[illegible]	-2.00	-1.00	8.50	3584.00	188.00	3.40	232.00	2.41000
456662	-2.00	12.20	4.90	-[illegible]	-1.00	-1.00	8.20	3413.00	136.00	3.40	143.00	3.20500
456663	-1.00	13.80	3.80	-184.00	-1.00	-1.00	8.70	4065.00	154.00	4.40	111.00	2.61100
456664	-2.00	8.50	3.00	-199.00	-1.00	-1.00	5.50	2537.00	99.00	-2.20	212.00	1.30700
456665	-2.00	10.80	4.50	-160.00	-2.00	1.00	8.00	3276.00	126.00	3.80	186.00	1.68470
456666	-2.00	8.10	3.40	-333.00	-2.00	-1.00	5.60	2624.00	110.00	4.10	316.00	1.23300
456667	-1.00	3.40	1.60	-127.00	-1.00	1.00	2.20	1066.00	37.00	1.80	117.00	.66900
456668	4.00	9.50	2.10	-382.00	-3.00	-1.00	3.50	2049.00	106.00	-2.10	399.00	.60600
456669	-1.00	4.90	2.00	-193.00	-1.00	-9999.00	2.30	1391.00	75.00	-1.00	103.00	.64100
456670	-2.00	13.60	5.30	-250.00	-1.00	-1.00	10.00	4099.00	138.00	4.80	-45.00	2.86500
456671	3.00	11.60	4.10	-138.00	-1.00	-1.00	9.10	4234.00	121.00	3.50	81.00	2.57100
456672	-2.00	7.80	2.80	-196.00	-2.00	-1.00	5.90	2575.00	72.00	4.60	107.00	2.20300
456673	-2.00	9.80	4.00	-199.00	-2.00	-1.00	7.50	3296.00	87.00	3.10	131.00	3.01200
456674	-3.00	12.50	4.60	-324.00	-2.00	-1.00	8.80	4577.00	106.00	4.60	-101.00	3.02100
456675	-1.00	9.40	3.00	-141.00	-1.00	-1.00	7.20	4331.00	99.00	3.50	-29.00	2.94100
456676	-2.00	11.00	3.30	-211.00	-2.00	-1.00	8.20	4187.00	93.00	4.10	174.00	3.09600
456677	-1.00	7.60	3.00	-201.00	-1.00	-1.00	6.10	3139.00	74.00	-1.50	-27.00	2.66700
456678	-2.00	7.70	2.90	-185.00	-1.00	-1.00	4.60	2932.00	96.00	2.90	110.00	2.02800
456679	-1.00	6.80	2.30	-123.00	-1.00	-1.00	4.40	3287.00	80.00	3.40	55.00	2.00000
456680	-2.00	10.30	3.50	-175.00	-1.00	-1.00	6.50	4146.00	115.00	4.10	-68.00	2.91500
456681	-2.00	11.90	4.20	-253.00	-2.00	-1.00	7.10	2840.00	129.00	4.10	-29.00	3.11500
456682	-7.00	3.90	-2.40	-843.00	-5.00	-3.00	-5.10	-9999.00	-19.00	-7.40	-101.00	0.00000
456683	-1.00	13.80	4.00	-169.00	-1.00	-1.00	9.90	4791.00	157.00	4.90	-36.00	3.78900
456684	-2.00	10.60	3.20	-181.00	-1.00	-1.00	6.60	4481.00	118.00	3.90	139.00	2.95000
456685	-2.00	11.30	3.90	-235.00	-2.00	-1.00	7.40	4043.00	133.00	4.00	123.00	3.01200
456686	-2.00	12.40	4.90	-302.00	-1.00	-1.00	8.90	4487.00	125.00	5.20	117.00	3.91100
456687	-1.00	12.90	3.70	-129.00	-1.00	-1.00	9.00	4563.00	146.00	3.00	-30.00	3.67600
456688	-2.00	11.20	4.40	-177.00	-1.00	-1.00	8.60	3883.00	148.00	-1.70	152.00	2.05700

POINT HOPE STREAM SEDIMENT

PG. ONE - SAMPLE SET 5

SAMPLE NO.	LAT.	LONG.	PH	COND.	SCINT.	URANIUM PPM	SILVER PPM	BISMUTH PPM	CADMIUM PPM	COPPER PPM	NIOBIUM PPM	NICKEL PPM	LEAD PPM	TIN PPM	TUNGSTEN PPM
456689	68.4236	165.5019	6.	127.0	14.	2.41	-5.00	-5.00	-5.00	30.00	-20.00	39.00	10.00	-10.00	15.00
456690	68.4244	165.4908	6.	125.0	14.	2.64	-5.00	-5.00	-5.00	35.00	-20.00	68.00	12.00	12.00	-15.00
456691	68.4306	165.4936	6.	73.0	7.	2.44	-5.00	-5.00	-5.00	34.00	-20.00	42.00	11.00	-10.00	-15.00
456692	68.4111	165.2714	6.	97.0	9.	2.36	-5.00	-5.00	-5.00	29.00	-20.00	32.00	10.00	-10.00	-15.00
456693	68.3867	165.2675	6.	44.0	9.	2.77	-5.00	-5.00	-5.00	31.00	-20.00	53.00	10.00	-10.00	-15.00
456694	68.3594	165.3403	6.	17.0	19.	2.67	-5.00	-5.00	-5.00	34.00	-20.00	50.00	19.00	-10.00	-15.00
456695	68.3492	165.2506	6.	2.0	3.	2.23	-5.00	-5.00	-5.00	23.00	-20.00	32.00	8.00	-10.00	-15.00
456696	68.3883	165.2208	5.	24.0	12.	2.28	-5.00	-5.00	-5.00	21.00	-20.00	26.00	7.00	-10.00	-15.00
456697	68.4100	165.1711	5.	67.0	9.	2.10	-5.00	-5.00	-5.00	28.00	-20.00	42.00	-5.00	-10.00	-15.00
456698	68.4125	165.1836	5.	65.0	9.	2.07	-5.00	-5.00	-5.00	23.00	-20.00	31.00	-5.00	-10.00	-15.00
456699	68.3831	165.0969	5.	123.0	7.	2.09	-5.00	-5.00	-5.00	24.00	-20.00	29.00	9.00	-10.00	-15.00
456700	68.4217	165.0964	5.	203.0	3.	2.31	-5.00	-5.00	-5.00	23.00	-20.00	33.00	9.00	-10.00	-15.00
456701	68.3342	165.6164	8.	167.0	9.	3.79	-5.00	-5.00	-5.00	30.00	-20.00	66.00	-5.00	-10.00	-15.00
456703	68.3822	165.6353	8.	153.0	6.	3.36	-5.00	-5.00	-5.00	29.00	-20.00	37.00	6.00	-10.00	15.00
456704	68.4075	165.6419	8.	231.0	6.	3.87	-5.00	-5.00	-5.00	49.00	-20.00	54.00	8.00	-10.00	-15.00
456705	68.4481	165.6703	8.	177.0	2.	4.76	-5.00	-5.00	-5.00	83.00	-20.00	69.00	10.00	-10.00	32.00
456706	68.4917	165.6947	8.	93.0	4.	3.33	-5.00	-5.00	-5.00	21.00	-20.00	28.00	5.00	-10.00	-15.00
456707	68.4628	165.7394	6.	168.0	4.	2.91	-5.00	-5.00	-5.00	21.00	-20.00	38.00	5.00	-10.00	-15.00
456708	68.4550	165.8431	6.	235.0	4.	4.31	-5.00	-5.00	-5.00	32.00	-20.00	49.00	11.00	-10.00	-15.00
456709	68.5094	165.8686	7.	147.0	4.	3.72	-5.00	-5.00	-5.00	33.00	-20.00	57.00	11.00	-10.00	-15.00
456710	68.5083	165.8622	7.	131.0	4.	3.72	-5.00	-5.00	-5.00	30.00	-20.00	49.00	8.00	-10.00	-15.00

POINT HOPE STREAM SEDIMENT — PG. TWO - SAMPLE SET 9

SAMPLE NO.	AS PPM	SE PPM	ZR PPM	MO PPM	BE PPM	LI PPM	AL PPM	AU PPM	BA PPM	CA PPM	CE PPM	CL PPM	CO PPM
456689	17.00	-5.00	186.00	-9999.00	-9999.00	-9999.00	64320.00	-.06	501.00	3966.00	59.00	-107.00	22.40
456690	26.00	-5.00	167.00	-9999.00	-9999.00	-9999.00	73040.00	-.07	493.00	3301.00	71.00	-127.00	30.70
456691	17.00	-5.00	182.00	-9999.00	-9999.00	-9999.00	67210.00	-.03	400.00	-881.00	53.00	-96.00	16.80
456692	17.00	-5.00	190.00	-9999.00	-9999.00	-9999.00	68310.00	-.07	417.00	2553.00	56.00	-98.00	34.60
456693	23.00	-5.00	172.00	-9999.00	-9999.00	-9999.00	81940.00	-.06	447.00	-971.00	67.00	-91.00	24.10
456694	26.00	-5.00	171.00	-9999.00	-9999.00	-9999.00	77920.00	-.04	373.00	-1019.00	58.00	-90.00	23.20
456695	6.00	-5.00	149.00	-9999.00	-9999.00	-9999.00	65390.00	-.11	-176.00	-1240.00	65.00	-112.00	44.70
456696	12.00	-5.00	228.00	-9999.00	-9999.00	-9999.00	59080.00	-.05	278.00	2160.00	52.00	-93.00	16.50
456697	17.00	-5.00	162.00	-9999.00	-9999.00	-9999.00	63230.00	-.06	264.00	-1006.00	55.00	-100.00	15.60
456698	19.00	-5.00	186.00	-9999.00	-9999.00	-9999.00	59260.00	-.03	421.00	-850.00	37.00	-91.00	13.50
456699	12.00	-5.00	196.00	-9999.00	-9999.00	-9999.00	55590.00	-.06	398.00	2428.00	55.00	-96.00	30.00
456700	13.00	-5.00	200.00	-9999.00	-9999.00	-9999.00	66700.00	-.05	376.00	-892.00	52.00	-104.00	18.10
456701	17.00	-5.00	127.00	-9999.00	-9999.00	-9999.00	34800.00	-.10	1681.00	24670.00	48.00	-229.00	26.70
456703	19.00	-5.00	114.00	-9999.00	-9999.00	-9999.00	46300.00	-.06	2273.00	31420.00	41.00	-87.00	30.10
456704	13.00	-5.00	134.00	-9999.00	-9999.00	-9999.00	44980.00	-.07	5561.00	23430.00	47.00	107.00	18.60
456705	29.00	6.00	113.00	-9999.00	-9999.00	-9999.00	53910.00	-.09	6206.00	31190.00	55.00	-94.00	14.90
456706	8.00	-5.00	129.00	-9999.00	-9999.00	-9999.00	33130.00	-.04	597.00	75900.00	35.00	-78.00	10.80
456707	6.00	-5.00	99.00	-9999.00	-9999.00	-9999.00	31850.00	-.07	440.00	75410.00	35.00	-79.00	32.50
456708	9.00	-5.00	146.00	-9999.00	-9999.00	-9999.00	46450.00	-.07	592.00	29580.00	52.00	-95.00	19.90
456709	10.00	-5.00	125.00	-9999.00	-9999.00	-9999.00	41440.00	-.07	1439.00	68110.00	47.00	-76.00	11.50
456710	11.00	-5.00	130.00	-9999.00	-9999.00	-9999.00	38520.00	-.03	1450.00	66120.00	37.00	-71.00	10.60

POINT HOPE STREAM SEDIMENT

PG. THREE - SAMPLE SET 9

SAMPLE NO.	CR PPM	CS PPM	DY PPM	EU PPM	FE PPM	HF PPM	K PPM	LA PPM	LU PPM	MG PPM	MN PPM	NA PPM	RB PPM
456689	91.00	3.80	5.00	1.00	35450.00	7.30	19530.00	30.00	.30	7106.00	680.00	14260.00	57.00
456690	109.00	4.60	5.00	1.00	50660.00	4.50	13020.00	26.00	.40	8051.00	1609.00	11990.00	-40.00
456691	87.00	4.00	5.00	1.00	38060.00	6.80	14330.00	21.00	.40	6301.00	439.00	13210.00	55.00
456692	77.00	2.80	4.00	1.10	36900.00	7.20	14200.00	27.00	.50	8266.00	509.00	14720.00	-46.00
456693	88.00	4.60	5.00	1.00	49500.00	4.80	17010.00	33.00	.30	8261.00	530.00	11040.00	100.00
456694	90.00	3.60	5.00	1.00	44720.00	5.30	16050.00	27.00	.40	6922.00	720.00	10840.00	81.00
456695	80.00	-3.00	3.00	1.00	26680.00	6.90	11650.00	29.00	.50	6674.00	152.00	11700.00	-70.00
456696	88.00	2.80	4.00	1.00	31310.00	8.70	12130.00	27.00	.30	4608.00	383.00	14870.00	-30.00
456697	74.00	2.90	4.00	1.00	34370.00	6.40	15900.00	22.00	.30	6913.00	466.00	16940.00	-36.00
456698	73.00	2.30	4.00	.80	31630.00	6.00	10570.00	23.00	.30	5273.00	413.00	15150.00	48.00
456699	76.00	2.40	4.00	.90	32090.00	6.70	10430.00	23.00	.30	5351.00	403.00	17120.00	-35.00
456700	69.00	3.20	4.00	1.10	31390.00	6.90	17320.00	19.00	.30	4964.00	401.00	16770.00	77.00
456701	85.00	-2.90	4.00	1.60	45730.00	4.90	-11670.00	30.00	.40	10450.00	4683.00	5047.00	-52.00
456703	74.00	4.10	3.00	1.60	28880.00	5.00	12270.00	22.00	.30	23010.00	964.00	9668.00	-37.00
456704	77.00	4.90	5.00	2.00	24790.00	3.90	10510.00	27.00	.40	13360.00	452.00	5632.00	-38.00
456705	104.00	5.50	5.00	1.80	31320.00	5.10	17320.00	34.00	.40	9255.00	975.00	5670.00	107.00
456706	68.00	3.60	5.00	.90	20800.00	4.20	9211.00	38.00	.30	25470.00	508.00	3183.00	51.00
456707	64.00	4.00	3.00	.80	15810.00	3.90	8134.00	22.00	.20	31110.00	594.00	3875.00	-43.00
456708	65.00	3.90	6.00	1.30	23180.00	5.70	6621.00	37.00	.40	9908.00	694.00	6433.00	-41.00
456709	75.00	5.60	5.00	1.10	25220.00	4.40	10970.00	28.00	.30	29428.00	431.00	4354.00	-35.00
456710	74.00	6.10	5.00	.70	23540.00	4.20	10770.00	26.00	.30	28138.00	467.00	4040.00	48.00

POINT HOPE STREAM SEDIMENT

SAMPLE NO.	SB PPM	SC PPM	SN PPM	SR PPM	TA PPM	TB PPM	TH PPM	TI PPM	V PPM	VB PPM	ZN PPM	TH/U RATIO
456689	-2.00	10.90	4.10	-225.00	-1.00	-1.00	6.90	3448.00	112.00	-1.80	159.00	2.06500
456690	-2.00	13.90	3.90	-307.00	-1.00	-1.00	8.30	4470.00	149.00	5.30	151.00	3.14500
456691	-1.00	12.00	3.40	-128.00	-1.00	-1.00	7.40	4283.00	128.00	4.10	-29.00	3.03000
456692	-2.00	13.00	3.50	-197.00	-2.00	-1.00	7.90	4111.00	131.00	3.90	130.00	3.34400
456693	-2.00	14.60	4.40	-199.00	-2.00	-1.00	9.70	4319.00	167.00	3.50	165.00	3.49700
456694	-1.00	14.40	3.60	-150.00	-1.00	-1.00	9.40	4462.00	161.00	4.10	-35.00	3.92100
456695	-3.00	11.90	3.70	-220.00	-4.00	-1.00	8.50	5118.00	125.00	-2.90	153.00	3.81700
456696	-2.00	9.30	3.00	-181.00	-1.00	-1.00	6.10	3599.00	103.00	-1.70	-72.00	2.67400
456697	-2.00	10.20	3.10	-257.00	-2.00	-1.00	5.90	41 [illegible].00	103.00	3.40	128.00	2.80900
456698	-1.00	9.50	2.30	-130.00	-1.00	-1.00	6.50	3987.00	108.00	2.50	-28.00	3.14500
456699	-2.00	9.90	3.10	-172.00	-2.00	-1.00	5.30	4346.00	99.00	-1.50	164.00	2.58400
456700	-2.00	10.30	3.60	-195.00	-2.00	-1.00	7.00	3683.00	117.00	-1.90	-16.00	3.03000
456701	-3.00	11.30	3.00	-289.00	-3.00	-1.00	6.80	3349.00	124.60	4.90	236.00	1.79500
456703	-2.00	9.90	2.70	-186.00	-2.00	-1.00	6.40	3246.00	144.60	-1.60	-113.00	1.90500
456704	-2.00	10.70	3.60	-213.00	-2.00	-1.00	7.80	2208.00	156.00	-2.10	186.00	2.01600
456705	3.00	16.20	3.90	-333.00	-1.00	-1.00	6.70	2671.00	303.00	3.40	174.00	1.40900
456706	-1.00	7.90	3.10	-149.00	-1.00	-1.00	5.50	2750.00	94.00	4.50	-68.00	1.02800
456707	-2.00	6.80	2.70	-202.00	-2.00	-1.00	4.50	2424.00	69.00	2.90	291.00	1.54600
456708	-2.00	10.00	3.80	-257.00	-2.00	-1.00	5.80	2896.00	107.00	4.10	216.00	1.34600
456709	-2.00	10.00	2.80	-233.00	-2.00	-1.00	5.50	2469.00	124.00	4.10	-98.00	1.47900
456710	-1.00	9.30	2.90	-129.00	-1.00	-1.00	6.40	2519.00	122.00	3.80	159.00	1.72100

END