

STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Jim Gibbons, Governor

Allen Biaggi, Director

Leo M. Drozdoff, P.E., Administrator

July 26, 2007

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Letter Regarding:
Addendum to the Final Shallow Soils Background Report
NDEP Facility ID# H-000688 and H-000537

Dear Mr. Paris and Mr. Wilkinson:

The Nevada Division of Environmental Protection (NDEP) has discussed the matter of Appendix G of the report with TIMET and BRC. It was agreed that the attached tables and text would be included as an addendum to the final report. The report should be considered final at this time.

Should you have any questions or concerns, please do not hesitate to contact me at (702) 486-2850x247.

Sincerely,

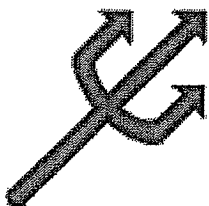
Brian A. Rakvica, P.E.
Supervisor, Special Projects Branch
Bureau of Corrective Actions

BAR:s



cc: Jim Najima, NDEP, BCA, Carson City
Shannon Harbour, NDEP, BCA, Las Vegas
Maria Skorska, NDEP, BCA, Las Vegas
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Brenda Pohlmann, City of Henderson, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5,
75 Hawthorne Street, San Francisco, CA 94105-3901
Rob Mrowka, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-
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Ranjit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801
Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89015
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Paul Duffy, Neptune and Company, Inc., 8550 West 14th Street, Suite 100, Lakewood, CO 80215
Paul Hackenberry, Hackenberry Associates, 550 West Plumb Lane, B425, Reno, NV, 89509
Teri Copeland, 5737 Kanan Rd., #182, Agoura Hills, CA 91301

Attachment A



NEPTUNE AND COMPANY, INC.

8550 West 14th Ave, Suite 100

Lakewood CO 80215

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MEMORANDUM

To: Brian Rakvica

From: Paul Duffy and Paul Black

Date: 07/22/2007

Subject: Revised Tables for Appendix G of the background report

The purpose of this memorandum is to provide supplemental tables for data presented in Appendix G of the March 16, 2007 draft of the "Background Shallow Soil Summary Report: BMI Complex and Common Areas Vicinity". The tables presented herein are meant to supplement the tables provided in Appendix G of the background report, and are, hence, numbered G-1A through G-8A, each table supplementing, in turn, Appendix G tables G-1 through G-8.

The main issue that these new summary tables address is presenting the radionuclides summary data without censoring. However, in so doing, the metals data have also been combined across both detects and non-detects. Non-detects are represented at the reported detection limits for these summary tables. The reason to present the supplemental tables for the radionuclide summary statistics is simply that these data were not originally censored, in which case it does not make sense to censor them for the Appendix G presentation.

For the metals, the reasoning is not so clear. However, the data might be used for background comparisons in the future, or they might be used to estimate background risk. For statistical tests or confidence bounds involving these data that also involve mean concentrations (e.g., t-tests for background comparisons, or estimation of background risk), it might be helpful to have tables of summary statistics that match the results of these statistical tests, rather than summary statistics tables that separate the non-detects from the detects. Of course, this requires a simple substitution rule for the non-detects data, which in the supplemental tables presented is the reported detection limit (other options exist, such as $\frac{1}{2}$ the reported detection limit). We recognize that current UCL estimation methods include approaches that are based on survival analysis, and hence do not require substitution for censored data. However, background comparisons, which

constitute the more likely use of these data, are not so easily addressed with methods that do not require substitution. These supplemental tables might help in those cases.

Table G-1A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	120	1	3740	6710	8420	8900	11200	15300
Antimony	120	0.41	0.0394	0.168	0.33	0.254	0.33	0.5
Arsenic	120	1	2.1	3.3	3.9	4.13	4.92	7.2
Barium	120	1	73	144	190	222	233	836
Beryllium	120	1	0.16	0.44	0.54	0.557	0.69	0.89
Boron	104	0.33	3.2	3.35	4.25	4.88	5.8	11.6
Cadmium	120	0.13	0.052	0.129	0.129	0.126	0.129	0.16
Calcium	104	1	8160	17500	23600	28100	35200	82800
Chloride	104	0.69	0.25	1.6	11.5	118	136	1110
Chromium	120	1	2.6	7	8.8	8.94	10.8	16.7
Chromium-hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	120	1	3.7	6.38	8.25	8.22	9.72	16.3
Copper	120	1	7.8	14.4	17.2	17.1	19.7	30.5
Fluoride	104	0.12	0.051	0.051	0.051	0.373	0.603	2.5
Iron	120	1	5410	10500	13000	12800	15100	19700
Lead	120	1	3	6.38	7.75	9.45	10.6	35.1
Lithium	104	1	7.5	10.8	12.8	13.8	16.1	26.5
Magnesium	120	1	4580	6970	9420	9500	11700	17500
Manganese	120	1	151	344	419	425	496	1090
Mercury	120	0.78	0.0072	0.00918	0.015	0.0184	0.022	0.11
Molybdenum	120	1	0.17	0.38	0.475	0.547	0.623	2
Nickel	120	1	7.8	11.4	15.3	15.1	17.6	30
Niobium	104	0	1.01	1.01	1.3	1.42	1.62	2.8
Nitrate	104	0.87	0.1	0.258	0.78	7.59	3.23	102
Nitrite	104	0.048	0.061	0.061	0.061	0.0652	0.061	0.21
Palladium	104	1	0.14	0.287	0.4	0.462	0.55	1.5
Phosphorus	104	1	636	1200	1460	1420	1650	2010
Platinum	104	0.048	0.0435	0.0435	0.0435	0.0448	0.0435	0.099
Potassium	104	1	625	1230	1540	1730	2060	3890
Selenium	120	0.43	0.0467	0.158	0.158	0.213	0.273	0.6
Silicon	104	1	335	563	720	981	1070	4150
Silver	120	0.13	0.019	0.261	0.261	0.233	0.261	0.261
Sodium	104	1	111	210	452	486	685	1320
Strontium	104	1	69	134	186	223	258	808
Sulfate	104	0.78	0.612	4.4	22.2	180	117	4130
Thallium	120	0.35	0.1	0.398	0.543	0.688	0.985	1.8
Thorium	16	1	4.6	5.22	5.65	5.88	6.42	7.7
Tin	104	0.99	0.187	0.4	0.485	0.477	0.552	0.8
Titanium	120	1	200	393	504	510	618	1010
Tungsten	104	0	0.49	0.887	1.05	1.18	1.5	2.5
Uranium	103	1	0.43	0.82	0.94	1	1.1	2.7
Vanadium	120	1	14.6	25.9	35.5	35.4	43.5	59.1
Zinc	120	1	15.4	28.5	37.1	37.2	43.1	121
Zirconium	104	1	60.1	112	125	126	145	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Actinium-228	120	1.11	1.54	1.77	1.8	2.04	3.4
Bismuth-212	120	0.29	0.772	0.97	1.01	1.25	1.82
Bismuth-210	104	-0.6	0.2	0.6	0.605	0.9	2.2
Bismuth-211	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Bismuth-214	120	0.52	0.8	0.925	0.95	1.08	1.62
Cobalt-57	104	-0.045	-0.00925	0.00065	1.35E-05	0.012	0.04
Cobalt-60	104	-0.073	-0.0173	0.003	0.00151	0.0208	0.082
Lead-210	120	-0.6	0.3	0.665	0.724	1.1	2.2
Lead-211	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Lead-212	120	0.94	1.28	1.47	1.5	1.72	2.11
Lead-214	120	0.61	0.83	0.93	0.967	1.07	1.72
Polonium-210	104	-0.6	0.2	0.6	0.605	0.9	2.2
Polonium-212	104	0.19	0.495	0.605	0.648	0.78	1.17
Polonium-214	104	0.52	0.807	0.93	0.962	1.09	1.62
Polonium-215	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Polonium-216	104	1.08	1.34	1.57	1.53	1.73	2.11
Polonium-218	104	0.494	0.892	1.06	1.11	1.25	2.36
Potassium-40	120	17.8	22.9	24.5	25.2	27.1	35
Protactinium-234	104	-0.34	-0.14	-0.08	-0.0784	-0.0175	0.13
Radium-226	104	0.494	0.892	1.06	1.11	1.25	2.36
Radium-228	84	0.946	1.67	1.96	1.92	2.17	2.94
Radium-223	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Radium-224	104	1.08	1.34	1.57	1.53	1.73	2.11
Thallium-207	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Thallium-208	120	0.33	0.48	0.54	0.54	0.603	0.72
Thorium-227	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Thorium-228	120	1.07	1.48	1.71	1.69	1.9	2.28
Thorium-230	120	0.66	0.98	1.19	1.25	1.4	3.01
Thorium-231	104	0	0.043	0.0585	0.0655	0.0872	0.21
Thorium-232	120	1.05	1.41	1.57	1.61	1.8	2.23
Thorium-234	120	-0.53	0.745	1.25	1.17	1.62	2.5
Uranium-233/234	104	0.47	0.858	1.02	1.16	1.23	2.84
Uranium-234	16	0.53	0.665	0.775	0.772	0.85	1.11
Uranium-235	120	0	0.0428	0.059	0.0659	0.0892	0.21
Uranium-238	120	0.45	0.86	1.01	1.08	1.21	2.37

Table G-2A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 0 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	45	1	5530	7240	9950	9730	11600	13900
Antimony	45	0.58	0.0394	0.2	0.27	0.248	0.33	0.5
Arsenic	45	1	2.1	3	3.7	4.13	5.3	7.2
Barium	45	1	90.4	150	190	219	226	604
Beryllium	45	1	0.16	0.41	0.61	0.585	0.76	0.89
Boron	37	0.43	3.2	3.2	4.8	5.05	6	11.6
Cadmium	45	0.18	0.092	0.129	0.129	0.127	0.129	0.16
Calcium	37	1	10900	16100	19500	21600	25800	43200
Chloride	37	0.35	0.25	0.93	1.3	15.7	1.8	252
Chromium	45	1	3.6	8	10.8	10.4	12.8	16.7
Chromium-hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	45	1	4.1	7.3	8.8	8.46	9.5	14.6
Copper	45	1	8.1	16.3	18.5	17.8	19.6	25.9
Fluoride	37	0.054	0.051	0.051	0.051	0.147	0.051	1.1
Iron	45	1	8960	12100	14400	14000	16300	19700
Lead	45	1	6	9.1	10.9	13	15.7	35.1
Lithium	37	1	7.5	10	12.4	13.7	17.5	23.9
Magnesium	45	1	4880	8470	9750	10100	12100	17500
Manganese	45	1	263	407	455	472	506	1090
Mercury	45	0.89	0.0072	0.014	0.021	0.0218	0.027	0.082
Molybdenum	45	1	0.27	0.36	0.45	0.524	0.7	1.1
Nickel	45	1	8.4	13.8	16.6	16.5	18.1	30
Niobium	37	0	1.01	1.1	1.3	1.52	1.8	2.8
Nitrate	37	0.62	0.1	0.1	0.25	2.36	0.51	53.4
Nitrite	37	0.14	0.061	0.061	0.061	0.0729	0.061	0.21
Palladium	37	1	0.19	0.25	0.29	0.355	0.37	1.5
Phosphorus	37	1	636	1300	1520	1470	1630	1990
Platinum	37	0.027	0.0435	0.0435	0.0435	0.0445	0.0435	0.082
Potassium	37	1	1240	1620	1840	2240	2760	3890
Selenium	45	0.62	0.0467	0.158	0.19	0.245	0.32	0.6
Silicon	37	1	335	620	844	1390	1300	4150
Silver	45	0.18	0.036	0.261	0.261	0.224	0.261	0.261
Sodium	37	1	111	146	166	248	309	693
Strontium	37	1	86.8	119	143	168	166	808
Sulfate	37	0.46	0.612	2.1	3.3	58.3	10.5	857
Thallium	45	0.44	0.13	0.43	0.6	0.728	1	1.7
Thorium	8	1	5	5.22	6.1	5.95	6.42	7
Tin	37	1	0.28	0.51	0.55	0.55	0.61	0.8
Titanium	45	1	244	445	535	535	624	936
Tungsten	37	0	0.49	0.89	1	1.12	1.4	2.5
Uranium	37	1	0.43	0.8	0.89	0.913	1	1.8
Vanadium	45	1	15.7	26	35	35.2	42.1	57.3
Zinc	45	1	24.8	35.7	42.2	44	49.1	121
Zirconium	37	1	60.1	117	123	125	140	176

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Actinium-228	45	1.17	1.48	1.79	1.79	2.05	2.53
Bismuth-212	45	0.29	0.81	0.92	0.988	1.16	1.82
Bismuth-210	37	-0.3	0.4	0.63	0.766	1.1	2
Bismuth-211	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Bismuth-214	45	0.6	0.78	0.9	0.892	0.95	1.26
Cobalt-57	37	-0.031	-0.009	0.007	0.00249	0.013	0.03
Cobalt-60	37	-0.073	-0.025	-0.004	-0.00768	0.011	0.044
Lead-210	45	-0.3	0.5	0.8	0.896	1.5	2.2
Lead-211	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Lead-212	45	0.94	1.3	1.47	1.5	1.74	1.98
Lead-214	45	0.68	0.83	0.88	0.909	0.97	1.19
Polonium-210	37	-0.3	0.4	0.63	0.766	1.1	2
Polonium-212	37	0.19	0.5	0.58	0.62	0.7	1.16
Polonium-214	37	0.6	0.8	0.9	0.906	0.95	1.26
Polonium-215	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Polonium-216	37	1.08	1.36	1.61	1.55	1.76	1.98
Polonium-218	37	0.494	0.877	0.987	1.01	1.14	1.58
Potassium-40	45	20.3	23.5	24.5	25.3	27.5	34.4
Protactinium-234	37	-0.34	-0.15	-0.11	-0.0942	-0.03	0.12
Radium-226	37	0.494	0.877	0.987	1.01	1.14	1.58
Radium-228	30	1.11	1.72	1.94	1.93	2.09	2.94
Radium-223	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Radium-224	37	1.08	1.36	1.61	1.55	1.76	1.98
Thallium-207	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Thallium-208	45	0.41	0.49	0.53	0.554	0.61	0.72
Thorium-227	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Thorium-228	45	1.15	1.52	1.76	1.74	1.92	2.28
Thorium-230	45	0.72	0.93	1.15	1.11	1.24	1.7
Thorium-231	37	0	0.042	0.059	0.0619	0.08	0.13
Thorium-232	45	1.13	1.51	1.71	1.68	1.82	2.23
Thorium-234	45	-0.26	0.71	1.12	1.12	1.68	2.07
Uranium-233/234	37	0.47	0.8	0.89	0.905	1	1.23
Uranium-234	8	0.53	0.632	0.74	0.789	0.955	1.11
Uranium-235	45	0	0.038	0.059	0.0622	0.088	0.13
Uranium-238	45	0.45	0.8	0.91	0.905	1.03	1.38

Table G-3A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 5 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	42	1	4840	6560	7770	8550	10900	15300
Antimony	42	0.26	0.0394	0.14	0.33	0.239	0.33	0.35
Arsenic	42	1	2.3	3.33	3.7	3.86	4.4	6.1
Barium	42	1	73	149	214	230	270	561
Beryllium	42	1	0.25	0.443	0.5	0.528	0.618	0.77
Boron	34	0.29	3.2	3.2	4.1	4.71	5.7	9.1
Cadmium	42	0.19	0.052	0.129	0.129	0.122	0.129	0.14
Calcium	34	1	8160	16600	22600	29300	36900	82800
Chloride	34	0.82	0.25	2.42	25.2	182	231	1060
Chromium	42	1	3.1	6.4	7.7	7.94	9.68	12.1
Chromium-hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	42	1	3.9	6.05	7.3	7.78	9.62	14.8
Copper	42	1	7.8	13.2	15.3	16.1	19.7	30.5
Fluoride	34	0.15	0.051	0.051	0.315	0.474	0.767	2.1
Iron	42	1	6350	9440	12100	12200	14400	18800
Lead	42	1	4.9	6.5	7.1	8.13	9.18	23.3
Lithium	34	1	8.5	10.6	11.7	12.6	14.4	21.3
Magnesium	42	1	4580	5710	8080	8320	10900	13600
Manganese	42	1	183	305	374	405	491	863
Mercury	42	0.69	0.0072	0.0072	0.0135	0.0149	0.0198	0.034
Molybdenum	42	1	0.17	0.35	0.445	0.523	0.573	2
Nickel	42	1	7.8	10.8	13.1	13.9	16.4	22.7
Niobium	34	0	1.01	1.01	1.35	1.48	1.77	2.8
Nitrate	34	1	0.13	0.652	1.3	14.8	11.7	102
Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	34	1	0.14	0.325	0.435	0.433	0.517	0.84
Phosphorus	34	1	842	1160	1470	1410	1720	2010
Platinum	34	0.059	0.0435	0.0435	0.0435	0.0452	0.0435	0.099
Potassium	34	1	872	1130	1370	1610	2070	3260
Selenium	42	0.4	0.0467	0.158	0.158	0.197	0.253	0.4
Silicon	34	1	399	539	720	743	849	1360
Silver	42	0.19	0.019	0.261	0.261	0.22	0.261	0.261
Sodium	34	1	179	408	502	574	728	1320
Strontium	34	1	69	156	210	206	251	441
Sulfate	34	0.91	2.2	8.05	55.8	208	176	3240
Thallium	42	0.36	0.1	0.34	0.543	0.648	0.777	1.8
Thorium	8	1	4.6	5.2	5.45	5.81	6.17	7.7
Tin	34	1	0.2	0.4	0.445	0.455	0.53	0.75
Titanium	42	1	213	366	476	497	598	1010
Tungsten	34	0	0.64	0.902	1.05	1.21	1.5	2.2
Uranium	33	1	0.67	0.81	1	0.963	1.1	1.3
Vanadium	42	1	14.6	25.4	33.5	33.7	42.3	59.1
Zinc	42	1	17.6	26.1	33.6	34.1	41.3	52.4
Zirconium	34	1	78.9	116	133	132	148	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Actinium-228	42	1.11	1.65	1.82	1.85	2.04	2.66
Bismuth-212	42	0.31	0.797	0.97	1.02	1.22	1.82
Bismuth-210	34	-0.5	-0.1	0.25	0.353	0.6	1.7
Bismuth-211	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Bismuth-214	42	0.57	0.8	0.945	0.948	1.07	1.48
Cobalt-57	34	-0.045	-0.014	-0.004	-0.00611	0.005	0.022
Cobalt-60	34	-0.055	-0.0165	-0.0035	0.00173	0.0222	0.071
Lead-210	42	-0.5	0.12	0.43	0.57	0.98	2.2
Lead-211	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Lead-212	42	1	1.25	1.44	1.46	1.65	1.93
Lead-214	42	0.62	0.8	0.885	0.933	1.03	1.72
Polonium-210	34	-0.5	-0.1	0.25	0.353	0.6	1.7
Polonium-212	34	0.34	0.522	0.61	0.658	0.78	1.17
Polonium-214	34	0.64	0.805	0.945	0.956	1.07	1.48
Polonium-215	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Polonium-216	34	1.08	1.29	1.53	1.51	1.72	1.93
Polonium-218	34	0.577	0.887	1.08	1.07	1.2	1.82
Potassium-40	42	17.8	22.9	25.2	25.6	28	35
Protactinium-234	34	-0.31	-0.147	-0.085	-0.0835	-0.00875	0.06
Radium-226	34	0.577	0.887	1.08	1.07	1.2	1.82
Radium-228	29	1.15	1.5	2	1.88	2.21	2.42
Radium-223	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Radium-224	34	1.08	1.29	1.53	1.51	1.72	1.93
Thallium-207	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Thallium-208	42	0.33	0.48	0.57	0.537	0.6	0.66
Thorium-227	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Thorium-228	42	1.07	1.52	1.75	1.72	1.95	2.15
Thorium-230	42	0.75	1.05	1.16	1.21	1.36	2.44
Thorium-231	34	9.00E-04	0.0408	0.0525	0.0574	0.0813	0.13
Thorium-232	42	1.1	1.41	1.56	1.6	1.78	2.06
Thorium-234	42	-0.53	0.695	0.985	1.04	1.57	2.3
Uranium-233/234	34	0.75	0.92	1.07	1.13	1.21	2.44
Uranium-234	8	0.53	0.7	0.795	0.756	0.815	0.91
Uranium-235	42	9.00E-04	0.0408	0.055	0.0587	0.0825	0.13
Uranium-238	42	0.45	0.87	1.02	1.04	1.17	1.95

Table G-4A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 10 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	33	1	3740	6370	7880	8220	10300	13300
Antimony	33	0.36	0.12	0.25	0.33	0.282	0.33	0.41
Arsenic	33	1	3.1	3.7	4.2	4.47	5.3	6.7
Barium	33	1	82.5	139	171	218	202	836
Beryllium	33	1	0.29	0.46	0.53	0.555	0.63	0.89
Boron	33	0.24	3.2	3.7	4.3	4.86	5.1	10.2
Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129
Calcium	33	1	17900	22800	32000	34300	44800	70200
Chloride	33	0.94	1.6	21.7	35.9	168	254	1110
Chromium	33	1	2.6	7.4	8.2	8.15	9.4	14.1
Chromium-hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	33	1	3.7	6.1	8.9	8.46	10.2	16.3
Copper	33	1	10.2	14.6	17	17.2	19.8	23.9
Fluoride	33	0.18	0.051	0.051	0.31	0.521	0.77	2.5
Iron	33	1	5410	9180	12300	11900	14300	19100
Lead	33	1	3	5.6	6	6.29	6.8	11.7
Lithium	33	1	9.9	11.8	13.4	15.3	16.5	26.5
Magnesium	33	1	5240	6680	10900	10200	12700	16900
Manganese	33	1	151	327	398	386	465	641
Mercury	33	0.73	0.0072	0.0072	0.011	0.0183	0.015	0.11
Molybdenum	33	1	0.33	0.45	0.54	0.608	0.63	1.9
Nickel	33	1	7.9	11.5	14.7	14.8	17.9	22.1
Niobium	33	0	1.01	1.01	1.1	1.25	1.4	2
Nitrate	33	1	0.11	0.67	1.5	5.99	3.8	42.1
Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	33	1	0.25	0.4	0.55	0.61	0.84	1.2
Phosphorus	33	1	722	1070	1370	1350	1640	1960
Platinum	33	0.061	0.0435	0.0435	0.0435	0.0447	0.0435	0.064
Potassium	33	1	625	966	1250	1290	1380	2270
Selenium	33	0.21	0.158	0.158	0.158	0.191	0.158	0.4
Silicon	33	1	423	572	680	764	883	1380
Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261
Sodium	33	1	196	522	662	661	802	1190
Strontium	33	1	114	199	258	302	406	684
Sulfate	33	1	8.6	21.2	49.8	286	124	4130
Thallium	33	0.21	0.21	0.4	0.543	0.685	0.93	1.6
Thorium	33	0.97	0.187	0.36	0.4	0.416	0.51	0.63
Tin	33	1	200	402	490	493	597	858
Titanium	33	0	0.51	0.89	1.1	1.2	1.5	2.1
Tungsten	33	1	0.68	0.89	0.95	1.14	1.3	2.7
Uranium	33	1	19.2	30.5	38.8	37.9	45.6	57.5
Vanadium	33	1	15.4	23.9	34.1	31.9	39.6	51.7
Zinc	33	1	68.4	102	123	122	145	177
Zirconium	33	1	3740	6370	7880	8220	10300	13300

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Actinium-228	33	1.18	1.48	1.71	1.77	2	3.4
Bismuth-212	33	0.52	0.74	1.06	1.04	1.36	1.69
Bismuth-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Bismuth-211	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Bismuth-214	33	0.52	0.83	1.02	1.03	1.18	1.62
Cobalt-57	33	-0.032	-0.005	0.002	0.00354	0.012	0.04
Cobalt-60	33	-0.042	-0.009	0.011	0.0116	0.028	0.082
Lead-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Lead-211	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Lead-212	33	1.08	1.33	1.58	1.54	1.72	2.11
Lead-214	33	0.61	0.91	1.01	1.09	1.24	1.68
Polonium-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Polonium-212	33	0.33	0.47	0.68	0.668	0.87	1.08
Polonium-214	33	0.52	0.83	1.02	1.03	1.18	1.62
Polonium-215	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Polonium-216	33	1.08	1.33	1.58	1.54	1.72	2.11
Polonium-218	33	0.507	0.939	1.22	1.27	1.54	2.36
Potassium-40	33	18.4	22.4	24.5	24.4	26	31.1
Protactinium-234	33	-0.25	-0.1	-0.04	-0.0555	-0.01	0.13
Radium-226	33	0.507	0.939	1.22	1.27	1.54	2.36
Radium-228	25	0.946	1.73	2.02	1.94	2.14	2.92
Radium-223	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Radium-224	33	1.08	1.33	1.58	1.54	1.72	2.11
Thallium-207	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Thallium-208	33	0.37	0.43	0.53	0.526	0.6	0.72
Thorium-227	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Thorium-228	33	1.16	1.38	1.5	1.57	1.82	2.13
Thorium-230	33	0.66	1.03	1.5	1.47	1.67	3.01
Thorium-231	33	0	0.047	0.076	0.0779	0.1	0.21
Thorium-232	33	1.05	1.34	1.5	1.55	1.77	2.1
Thorium-234	33	0.24	1.19	1.44	1.38	1.66	2.5
Uranium-233/234	33	0.58	1.04	1.25	1.48	1.9	2.84
Uranium-235	33	0	0.047	0.077	0.0802	0.101	0.21
Uranium-238	33	0.58	1.05	1.36	1.39	1.59	2.37

Table G-5A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 5 and 10 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	75	1	3740	6500	7880	8400	10700	15300
Antimony	75	0.31	0.0394	0.155	0.33	0.258	0.33	0.41
Arsenic	75	1	2.3	3.4	3.9	4.13	4.8	6.7
Barium	75	1	73	142	188	225	242	836
Beryllium	75	1	0.25	0.445	0.5	0.54	0.625	0.89
Boron	67	0.27	3.2	3.5	4.2	4.78	5.45	10.2
Cadmium	75	0.11	0.052	0.129	0.129	0.125	0.129	0.14
Calcium	67	1	8160	19000	28800	31800	42500	82800
Chloride	67	0.88	0.25	5.15	33.1	175	245	1110
Chromium	75	1	2.6	6.4	8.1	8.03	9.6	14.1
Chromium-hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	75	1	3.7	6.05	7.9	8.08	9.95	16.3
Copper	75	1	7.8	13.7	16.1	16.6	19.8	30.5
Fluoride	67	0.16	0.051	0.051	0.31	0.497	0.77	2.5
Iron	75	1	5410	9400	12300	12100	14400	19100
Lead	75	1	3	5.9	6.7	7.32	7.8	23.3
Lithium	67	1	8.5	11.3	12.8	13.9	15.8	26.5
Magnesium	75	1	4580	6140	9360	9150	11600	16900
Manganese	75	1	151	306	383	397	483	863
Mercury	75	0.71	0.0072	0.0072	0.012	0.0164	0.019	0.11
Molybdenum	75	1	0.17	0.385	0.49	0.56	0.605	2
Nickel	75	1	7.8	11.2	13.8	14.3	17.4	22.7
Niobium	67	0	1.01	1.01	1.3	1.37	1.6	2.8
Nitrate	67	1	0.11	0.655	1.5	10.5	6.4	102
Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	67	1	0.14	0.345	0.49	0.52	0.69	1.2
Phosphorus	67	1	722	1100	1420	1380	1660	2010
Platinum	67	0.06	0.0435	0.0435	0.0435	0.045	0.0435	0.099
Potassium	67	1	625	1100	1310	1450	1760	3260
Selenium	75	0.32	0.0467	0.158	0.158	0.194	0.21	0.4
Silicon	67	1	399	547	690	753	880	1380
Silver	75	0.11	0.019	0.261	0.261	0.238	0.261	0.261
Sodium	67	1	179	434	615	617	780	1320
Strontium	67	1	69	160	219	253	332	684
Sulfate	67	0.96	2.2	14.9	49.8	246	145	4130
Thallium	75	0.29	0.1	0.395	0.543	0.665	0.915	1.8
Thorium	8	1	4.6	5.2	5.45	5.81	6.17	7.7
Tin	67	0.99	0.187	0.385	0.43	0.436	0.52	0.75
Titanium	75	1	200	372	490	495	598	1010
Tungsten	67	0	0.51	0.885	1.1	1.21	1.5	2.2
Uranium	66	1	0.67	0.84	0.995	1.05	1.18	2.7
Vanadium	75	1	14.6	26.8	35.9	35.6	44	59.1
Zinc	75	1	15.4	25.6	34.1	33.2	40.2	52.4
Zirconium	67	1	68.4	108	126	127	147	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Actinium-228	75	1.11	1.55	1.76	1.82	2.04	3.4
Bismuth-212	75	0.31	0.75	0.99	1.03	1.31	1.82
Bismuth-210	67	-0.6	0.19	0.5	0.517	0.8	2.2
Bismuth-211	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Bismuth-214	75	0.52	0.815	0.97	0.984	1.14	1.62
Cobalt-57	67	-0.045	-0.01	-9.00E-04	-0.00136	0.011	0.04
Cobalt-60	67	-0.055	-0.016	0.007	0.00658	0.026	0.082
Lead-210	75	-0.6	0.2	0.6	0.621	0.955	2.2
Lead-211	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Lead-212	75	1	1.26	1.45	1.49	1.71	2.11
Lead-214	75	0.61	0.83	0.97	1	1.12	1.72
Polonium-210	67	-0.6	0.19	0.5	0.517	0.8	2.2
Polonium-212	67	0.33	0.49	0.63	0.663	0.85	1.17
Polonium-214	67	0.52	0.82	0.97	0.992	1.14	1.62
Polonium-215	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Polonium-216	67	1.08	1.29	1.54	1.52	1.72	2.11
Polonium-218	67	0.507	0.939	1.12	1.17	1.33	2.36
Potassium-40	75	17.8	22.7	24.5	25.1	27	35
Protactinium-234	67	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13
Radium-226	67	0.507	0.939	1.12	1.17	1.33	2.36
Radium-228	54	0.946	1.62	2	1.91	2.18	2.92
Radium-223	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Radium-224	67	1.08	1.29	1.54	1.52	1.72	2.11
Thallium-207	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Thallium-208	75	0.33	0.455	0.54	0.532	0.6	0.72
Thorium-227	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Thorium-228	75	1.07	1.42	1.66	1.66	1.89	2.15
Thorium-230	75	0.66	1.04	1.21	1.32	1.55	3.01
Thorium-231	67	0	0.043	0.058	0.0675	0.088	0.21
Thorium-232	75	1.05	1.36	1.52	1.57	1.77	2.1
Thorium-234	75	-0.53	0.76	1.3	1.19	1.6	2.5
Uranium-233/234	67	0.58	0.945	1.16	1.3	1.52	2.84
Uranium-234	8	0.53	0.7	0.795	0.756	0.815	0.91
Uranium-235	75	0	0.043	0.058	0.0681	0.0895	0.21
Uranium-238	75	0.45	0.935	1.07	1.19	1.41	2.37

Table G-6A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	101	1	3740	6820	8470	9130	11400	15300
Antimony	101	0.43	0.0394	0.21	0.33	0.275	0.33	0.5
Arsenic	101	1	2.1	3.4	3.9	4.11	4.9	7.2
Barium	101	1	73	141	175	182	216	465
Beryllium	101	1	0.16	0.45	0.54	0.581	0.72	0.89
Boron	95	0.36	3.2	3.45	4.4	5	5.9	11.6
Cadmium	101	0.059	0.095	0.129	0.129	0.128	0.129	0.16
Calcium	95	1	9440	18400	24500	29000	36400	82800
Chloride	95	0.72	0.25	1.6	16.3	128	150	1110
Chromium	101	1	2.6	6.9	9	9.03	11.1	16.7
Chromium-hexavalent	95	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	101	1	3.7	7.1	8.8	8.67	9.9	16.3
Copper	101	1	10.1	14.7	17.6	17.5	19.9	25.9
Fluoride	95	0.14	0.051	0.051	0.051	0.404	0.65	2.5
Iron	101	1	5410	10700	13500	13200	15500	19700
Lead	101	1	3	6.2	7.3	8.47	9.4	35.1
Lithium	95	1	7.5	10.8	12.9	14	16.8	26.5
Magnesium	101	1	4690	8450	10200	10200	12300	17500
Manganese	101	1	151	339	409	416	489	863
Mercury	101	0.78	0.0072	0.0092	0.014	0.019	0.023	0.11
Molybdenum	101	1	0.17	0.39	0.48	0.533	0.6	2
Nickel	101	1	7.9	13	16	15.9	18.1	30
Niobium	95	0	1.01	1.01	1.3	1.43	1.7	2.8
Nitrate	95	0.87	0.1	0.295	0.9	8.27	3.6	102
Nitrite	95	0.053	0.061	0.061	0.061	0.0656	0.061	0.21
Palladium	95	1	0.16	0.3	0.42	0.48	0.575	1.5
Phosphorus	95	1	862	1260	1490	1470	1680	2010
Platinum	95	0.053	0.0435	0.0435	0.0435	0.0449	0.0435	0.099
Potassium	95	1	625	1180	1580	1750	2170	3890
Selenium	101	0.39	0.1	0.158	0.158	0.215	0.27	0.6
Silicon	95	1	335	556	721	1010	1110	4150
Silver	101	0.059	0.043	0.261	0.261	0.249	0.261	0.261
Sodium	95	1	128	230	487	498	688	1320
Strontium	95	1	75.5	144	192	232	264	808
Sulfate	95	0.79	0.612	4.4	29.2	196	124	4130
Thallium	101	0.27	0.13	0.44	0.543	0.709	0.98	1.8
Thorium	6	1	5.3	5.42	6.3	6.25	6.95	7.3
Tin	95	1	0.24	0.41	0.51	0.498	0.565	0.8
Titanium	101	1	262	446	533	552	651	1010
Tungsten	95	0	0.49	0.89	1.1	1.2	1.5	2.5
Uranium	94	1	0.62	0.843	0.97	1.03	1.1	2.7
Vanadium	101	1	20.2	32.6	36.9	38.3	44.9	59.1
Zinc	101	1	15.4	31.1	38.9	38.5	43.8	121
Zirconium	95	1	86.1	116	129	131	146	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Actinium-228	101	1.18	1.61	1.81	1.87	2.05	3.4
Bismuth-212	101	0.29	0.81	0.99	1.03	1.3	1.82
Bismuth-210	95	-0.5	0.2	0.6	0.632	0.905	2.2
Bismuth-211	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Bismuth-214	101	0.6	0.85	0.96	0.985	1.12	1.62
Cobalt-57	95	-0.045	-0.0095	0.001	0.000414	0.012	0.04
Cobalt-60	95	-0.073	-0.0175	0.003	0.000611	0.021	0.071
Lead-210	101	-0.5	0.3	0.6	0.693	1.1	2.2
Lead-211	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Lead-212	101	1.08	1.37	1.58	1.55	1.73	2.11
Lead-214	101	0.69	0.86	0.96	1	1.1	1.72
Polonium-210	95	-0.5	0.2	0.6	0.632	0.905	2.2
Polonium-212	95	0.19	0.515	0.63	0.66	0.835	1.17
Polonium-214	95	0.6	0.845	0.95	0.984	1.13	1.62
Polonium-215	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Polonium-216	95	1.08	1.37	1.61	1.56	1.74	2.11
Polonium-218	95	0.494	0.956	1.09	1.15	1.27	2.36
Potassium-40	101	17.8	22.6	24.1	24.3	25.8	30.5
Protactinium-234	95	-0.34	-0.14	-0.08	-0.0789	-0.01	0.13
Radium-226	95	0.494	0.956	1.09	1.15	1.27	2.36
Radium-228	81	0.946	1.66	1.93	1.89	2.14	2.92
Radium-223	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Radium-224	95	1.08	1.37	1.61	1.56	1.74	2.11
Thallium-207	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Thallium-208	101	0.37	0.48	0.57	0.554	0.61	0.72
Thorium-227	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Thorium-228	101	1.15	1.52	1.78	1.74	1.93	2.28
Thorium-230	101	0.73	1.05	1.21	1.29	1.46	3.01
Thorium-231	95	0	0.043	0.059	0.0663	0.0885	0.21
Thorium-232	101	1.22	1.45	1.66	1.66	1.84	2.23
Thorium-234	101	-0.53	0.85	1.35	1.27	1.71	2.5
Uranium-233/234	95	0.63	0.9	1.07	1.2	1.24	2.84
Uranium-234	6	0.8	0.85	0.92	0.935	1	1.11
Uranium-235	101	0	0.043	0.059	0.0672	0.09	0.21
Uranium-238	101	0.65	0.92	1.05	1.16	1.31	2.37

Table G-7A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ River Mountain Background Soil Samples

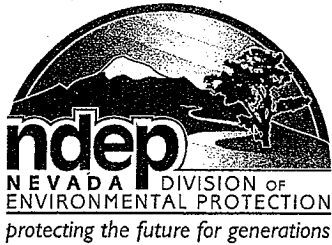
Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	8	1	6820	7470	8940	9000	10100	12000
Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394
Arsenic	8	1	2.6	3.1	3.35	3.36	3.58	4.3
Barium	8	1	322	346	372	392	401	561
Beryllium	8	1	0.25	0.287	0.3	0.32	0.347	0.43
Cadmium	8	1	0.052	0.0732	0.0955	0.0943	0.113	0.14
Chromium	8	1	4.3	7.05	7.6	7.88	8.47	12.4
Cobalt	8	1	3.9	4.05	4.15	4.39	4.62	5.6
Copper	8	1	7.8	8.1	8.6	9.54	9.15	16.3
Iron	8	1	7520	8640	9320	9410	10200	11800
Lead	8	1	7	13.6	18	17.5	23.4	23.5
Magnesium	8	1	4630	4830	5240	5700	6260	7810
Manganese	8	1	223	368	410	424	532	546
Mercury	8	1	0.013	0.0187	0.02	0.02	0.0225	0.024
Molybdenum	8	1	0.22	0.25	0.275	0.292	0.328	0.42
Nickel	8	1	7.8	8.62	9.65	10.2	10.9	15.4
Selenium	8	0.62	0.0467	0.0467	0.105	0.0963	0.115	0.18
Silver	8	1	0.019	0.033	0.0365	0.0424	0.0473	0.076
Thallium	8	1	0.1	0.13	0.14	0.141	0.152	0.18
Thorium	8	1	4.6	4.97	5.25	5.66	6.3	7.7
Titanium	8	1	235	277	298	310	310	473
Vanadium	8	1	14.6	15.5	16.3	16.5	17.6	18.6
Zinc	8	1	23	26.8	29.4	30.5	32.9	40.6

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-228	8	1.11	1.27	1.36	1.45	1.57	1.9
Bismuth-212	8	0.31	0.75	0.82	0.836	0.968	1.27
Bismuth-214	8	0.57	0.7	0.765	0.765	0.848	0.93
Lead-210	8	0.7	0.855	1.45	1.39	1.82	2.2
Lead-212	8	0.94	1.04	1.09	1.13	1.24	1.36
Lead-214	8	0.62	0.675	0.75	0.752	0.85	0.86
Potassium-40	8	24.9	26.4	29.3	28.8	29.8	34.4
Thallium-208	8	0.33	0.355	0.455	0.434	0.492	0.54
Thorium-228	8	1.07	1.26	1.42	1.37	1.5	1.52
Thorium-230	8	0.9	0.95	1.14	1.1	1.21	1.35
Thorium-232	8	1.1	1.21	1.37	1.35	1.49	1.58
Thorium-234	8	-0.002	0.182	0.365	0.368	0.575	0.71
Uranium-234	8	0.53	0.568	0.66	0.65	0.713	0.81
Uranium-235	8	0.016	0.0437	0.056	0.0592	0.076	0.103
Uranium-238	8	0.45	0.555	0.67	0.674	0.8	0.92

Table G-8A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	11	1	4840	5500	6180	6700	6340	10900
Antimony	11	0.55	0.0394	0.13	0.22	0.222	0.33	0.44
Arsenic	11	1	2.9	4.55	5.3	4.87	5.6	5.9
Barium	11	1	211	358	424	468	588	836
Beryllium	11	1	0.38	0.445	0.52	0.504	0.55	0.62
Boron	9	0	3.2	3.2	3.4	3.64	4	4.4
Cadmium	11	0.18	0.11	0.129	0.129	0.128	0.129	0.14
Calcium	9	1	8160	10900	16100	18600	26600	36400
Chloride	9	0.44	0.86	0.96	1.7	11.3	20	37.7
Chromium	11	1	5	7.85	8.8	8.86	10	11.7
Chromium-hexavalent	9	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	11	1	5.1	5.4	6.1	6.91	7.15	12.3
Copper	11	1	11.1	15.9	18.3	18.6	20.9	30.5
Fluoride	9	0	0.051	0.051	0.051	0.051	0.051	0.051
Iron	11	1	9180	10900	11200	11700	13400	14000
Lead	11	1	8.9	9.25	9.9	12.6	14.9	21
Lithium	9	1	9.1	10.9	11.7	11.8	13.2	14.9
Magnesium	11	1	4580	5170	5450	6060	6760	9090
Manganese	11	1	345	418	469	507	498	1090
Mercury	11	0.55	0.0072	0.0072	0.0097	0.0118	0.016	0.019
Molybdenum	11	1	0.22	0.78	0.9	0.859	1.03	1.3
Nickel	11	1	8.9	10.8	11.3	11.3	11.8	13.8
Niobium	9	0	1.01	1.01	1.01	1.3	1.5	2.4
Nitrate	9	0.78	0.1	0.11	0.2	0.372	0.59	1
Nitrite	9	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	9	1	0.14	0.19	0.22	0.266	0.34	0.48
Phosphorus	9	1	636	727	804	798	842	984
Platinum	9	0	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435
Potassium	9	1	1240	1240	1380	1470	1580	1840
Selenium	11	0.73	0.0467	0.164	0.26	0.28	0.395	0.59
Silicon	9	1	527	680	690	708	789	883
Silver	11	0.18	0.048	0.261	0.261	0.223	0.261	0.261
Sodium	9	1	111	146	265	352	432	901
Strontium	9	1	69	86.8	92	122	160	219
Sulfate	9	0.67	2.7	3.4	7.9	10.7	17.9	27.6
Thallium	11	0.64	0.12	0.885	0.95	0.894	1.1	1.4
Thorium	2	1	5.4	5.53	5.65	5.65	5.78	5.9
Tin	9	0.89	0.187	0.21	0.22	0.247	0.28	0.34
Titanium	11	1	200	220	244	272	306	398
Tungsten	9	0	0.68	0.78	0.9	0.937	0.99	1.5
Uranium	9	1	0.43	0.63	0.71	0.678	0.74	0.84
Vanadium	11	1	19.2	21.7	23.2	23	24.3	26
Zinc	11	1	21.4	23.9	25.2	30.7	35	52.4
Zirconium	9	1	60.1	66.1	69	75.2	85.6	92.9

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Actinium-228	11	1.17	1.3	1.42	1.46	1.66	1.78
Bismuth-212	11	0.52	0.685	0.92	0.953	1.14	1.72
Bismuth-210	9	-0.6	-0.14	0.4	0.321	0.6	1.5
Bismuth-211	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Bismuth-214	11	0.52	0.705	0.73	0.754	0.78	1.14
Cobalt-57	9	-0.036	-0.008	-0.004	-0.00421	0.001	0.015
Cobalt-60	9	-0.031	-0.007	0.014	0.011	0.02	0.082
Lead-210	11	-0.6	0.08	0.4	0.528	1.06	1.5
Lead-211	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Lead-212	11	1.08	1.14	1.22	1.25	1.35	1.44
Lead-214	11	0.61	0.695	0.79	0.805	0.835	1.23
Polonium-210	9	-0.6	-0.14	0.4	0.321	0.6	1.5
Polonium-212	9	0.33	0.44	0.46	0.522	0.6	0.74
Polonium-214	9	0.52	0.71	0.73	0.72	0.76	0.8
Polonium-215	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Polonium-216	9	1.08	1.11	1.21	1.22	1.34	1.44
Polonium-218	9	0.583	0.63	0.756	0.735	0.835	0.926
Potassium-40	11	28.8	30.5	31	31.1	31.2	35
Protactinium-234	9	-0.17	-0.12	-0.06	-0.0733	-0.03	-0.01
Radium-226	9	0.583	0.63	0.756	0.735	0.835	0.926
Radium-228	3	2.14	2.28	2.42	2.5	2.68	2.94
Radium-223	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Radium-224	9	1.08	1.11	1.21	1.22	1.34	1.44
Thallium-207	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Thallium-208	11	0.39	0.47	0.5	0.495	0.53	0.59
Thorium-227	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Thorium-228	11	1.17	1.31	1.44	1.46	1.57	1.9
Thorium-230	11	0.66	0.78	0.84	0.905	1.02	1.37
Thorium-231	9	0.021	0.046	0.053	0.0574	0.054	0.13
Thorium-232	11	1.05	1.27	1.44	1.42	1.47	1.93
Thorium-234	11	-0.15	0.54	0.82	0.795	1.29	1.44
Uranium-233/234	9	0.47	0.68	0.75	0.728	0.8	0.9
Uranium-234	2	0.76	0.767	0.775	0.775	0.782	0.79
Uranium-235	11	0.021	0.0405	0.053	0.0594	0.07	0.13
Uranium-238	11	0.57	0.615	0.66	0.719	0.815	0.94



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Jim Gibbons, Governor

Allen Biaggi, Director

Leo M. Drozdoff, P.E., Administrator

July 19, 2007

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Letter Regarding:
Appendix B Data Validation Summary Report for Hydrogeologic Characterization
Dated July 6, 2007
NDEP Facility ID# H-000537

Dear Mr. Wilkinson:

The Nevada Division of Environmental Protection (NDEP) has completed a review of the aforementioned document. NDEP's comments are provided in Attachment A. TIMET can submit errata pages or a revised document. In addition, a fully annotated response to comments letter is required. Please provide both **by August 17, 2007**. If this date is not attainable, please contact the NDEP immediately.

Should you have any questions or concerns, please do not hesitate to contact me at (702) 486-2850 x247.

Sincerely,

Brian A. Rakvica, P.E.
Supervisor, Special Projects Branch
Bureau of Corrective Actions

BAR:s

