TA-5 (Intermediate Groundwater in Mortandad Canyon, TA-50, TA-35)

Subject: Geochemistry Data For Well MCOBT-4.4
Date: Wed, 19 Feb 2003 18:46:44 -0700
From: Charles Nylander <nylander@lanl.gov>
To: john_young@nmenv.state.nm.us, carolyn_cooper@nmenv.state.nm.us
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John and Carolyn: I have just received the attached data tables for well MCOBT-4.4 following validation and verification. I am sending them to you for your information. The SR1 data set was reported (highlights) at the January Quarterly Meeting and represents the sampling performed in June 2002. The SR2 data set represents the results of the September sampling. The February 2003 samples are not available yet. The attached results demonstrate that nitrate, perchlorate, and tritium are basically the same as from earlier reports. Please let me know if you wish to discuss these data. Thanks. Charlie

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MCOBT_44_AllAnalysis_Screening_Data.xls	**Name:** MCOBT_44_AllAnalysis_Screening_Dat **Type:** EXCEL File (application/msexcel) **Encoding:** base64

MCOBT_44_AllAnalysis_SR1.xls	**Name:** MCOBT_44_AllAnalysis_SR1.xls **Type:** EXCEL File (application/msexcel) **Encoding:** base64

MCOBT_44_AllAnalysis_SR2.xls	**Name:** MCOBT_44_AllAnalysis_SR2.xls **Type:** EXCEL File (application/msexcel) **Encoding:** base64

2830

TA-5 (MCOBT-4.4 Groundwater Chemistry data, TA-5 Intermediate Groundwater)
date received 2/19/03 via email

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level at 522.3 ft from top of caseing)												
Field Parameters												
Field Alkalinity (total as CaCO3)	1	524	04/22/02	NF	1	1	41000	-	-	-	-	-
Dissolved Oxygen (mg/L)	1	524	04/22/02	NF	1	1	9200	-	-	-	-	-
pH	1	524	04/22/02	NF	1	1	7.52	-	>6 & <9	0/1	>6 & <9	0/1
Specific Conductance (uS/cm)	1	524	04/22/02	NF	1	1	327	-	-	0/1	-	0/1
Temperature (deg. C)	1	524	04/22/02	NF	1	1	19.3	-	-	0/1	-	0/1
Turbidity (NTU)	1	524	04/22/02	NF	1	1	0.34	-	-	0/1	-	0/1
Analytes												
Lab Alkalinity (total as CaCO3)	1	524	04/22/02	F	1	1	41200	-	-	-	-	-
Aluminum	1	524	04/22/02	F	1	0	-	[50]	50	0/1	5000	0/1
Aluminum	1	524	04/22/02	NF	1	0	-	[50]	-	-	-	-
Ammonia	1	524	04/22/02	F	1	0	-	[50]	-	-	-	-
Antimony	1	524	04/22/02	F	1	0	-	[0.145]	6	0/1	-	-
Antimony	1	524	04/22/02	NF	1	0	-	[0.17]	-	-	-	-
Arsenic	1	524	04/22/02	F	1	0	-	[5]	50	0/1	100	0/1
Arsenic	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Barium	1	524	04/22/02	F	1	1	12.9	-	2000	0/1	1000	0/1
Barium	1	524	04/22/02	NF	1	1	13.1	-	-	-	-	-
Beryllium	1	524	04/22/02	F	1	0	-	[0.2]	4	0/1	-	-
Beryllium	1	524	04/22/02	NF	1	0	-	[0.2]	-	-	-	-
Boron	1	524	04/22/02	F	1	1	16.7	-	-	-	750	0/1
Boron	1	524	04/22/02	NF	1	1	17.6	-	-	-	-	-
Bromide	1	524	04/22/02	F	1	0	-	[200]	-	-	-	-
Cadmium	1	524	04/22/02	F	1	0	-	[1]	5	0/1	10	0/1

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Cadmium	1	524	04/22/02	NF	1	0	-	[1]	-	-	-	-
Calcium	1	524	04/22/02	F	1	1	31900	-	-	-	-	-
Calcium	1	524	04/22/02	NF	1	1	32000	-	-	-	-	-
Chloride	1	524	04/22/02	F	1	1	17300	-	250000	0/1	250000	0/1
Chromium	1	524	04/22/02	F	1	1	53.5	-	100	0/1	50	1/1
Chromium	1	524	04/22/02	NF	1	1	53.6	-	-	-	-	-
Cobalt	1	524	04/22/02	F	1	0	-	[5]	-	-	50	0/1
Cobalt	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Copper	1	524	04/22/02	F	1	0	-	[5]	1300	0/1	1000	0/1
Copper	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Fluoride	1	524	04/22/02	F	1	1	416	-	4000	0/1	1600	0/1
Iron	1	524	04/22/02	F	1	0	-	[50]	300	0/1	1000	0/1
Iron	1	524	04/22/02	NF	1	0	-	[50]	-	-	-	-
Lead	1	524	04/22/02	F	1	1	0.083	-	15	0/1	50	0/1
Lead	1	524	04/22/02	NF	1	1	0.09	-	-	-	-	-
Magnesium	1	524	04/22/02	F	1	1	5400	-	-	-	-	-
Magnesium	1	524	04/22/02	NF	1	1	5420	-	-	-	-	-
Manganese	1	524	04/22/02	F	1	1	2.61	-	50	0/1	200	0/1
Manganese	1	524	04/22/02	NF	1	1	2.54	-	-	-	-	-
Mercury	1	524	04/22/02	F	1	0	-	[0.2]	2	0/1	-	-
Mercury	1	524	04/22/02	NF	1	0	-	[0.2]	-	-	2	0/1
Molybdenum	1	524	04/22/02	F	1	1	0.744	-	-	-	-	-
Molybdenum	1	524	04/22/02	NF	1	1	0.745	-	-	-	-	-
Nickel	1	524	04/22/02	F	1	1	3.19	-	100	0/1	200	0/1
Nickel	1	524	04/22/02	NF	1	1	2.85	-	-	-	-	-
Nitrate-Nitrite as N	1	524	04/22/02	F	1	1	13200	-	10000	1/1	-	-
Oxalate	1	524	04/22/02	F	1	0	-	[1000]	-	-	-	-
Perchlorate	1	524	04/22/02	F	1	1	142	-	-	-	-	-
Phosphorus (Total)	1	524	04/22/02	F	1	0	-	[30]	-	-	-	-
Potassium	1	524	04/22/02	F	1	1	634	-	-	-	-	-
Potassium	1	524	04/22/02	NF	1	1	636	-	-	-	-	-
Selenium	1	524	04/22/02	F	1	0	-	[5]	50	0/1	50	0/1
Selenium	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Silver	1	524	04/22/02	F	1	0	-	[5]	100	0/1	50	0/1

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Silver	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Sodium	1	524	04/22/02	F	1	1	20500	-	-	-	-	-
Sodium	1	524	04/22/02	NF	1	1	20600	-	-	-	-	-
Strontium	1	524	04/22/02	F	1	1	153	-	-	-	-	-
Strontium	1	524	04/22/02	NF	1	1	154	-	-	-	-	-
Sulfate	1	524	04/22/02	F	1	1	27500	-	250000	0/1	600000	0/1
Thallium	1	524	04/22/02	F	1	1	0.023	-	2	0/1	-	-
Thallium	1	524	04/22/02	NF	1	1	0.027	-	-	-	-	-
Total Kjeldahl Nitrogen	1	524	04/22/02	F	1	1	240	-	-	-	-	-
Uranium	1	524	04/22/02	F	1	1	0.281	-	20	0/1	5000	0/1
Uranium	1	524	04/22/02	NF	1	1	0.285	-	-	-	-	-
Vanadium	1	524	04/22/02	F	1	0	-	[5]	-	-	-	-
Vanadium	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Zinc	1	524	04/22/02	F	1	1	3.18	-	5000	0/1	10000	0/1
Zinc	1	524	04/22/02	NF	1	0	-	[5]	-	-	-	-
Stable Isotopes (per mil)												
D/H	1	524	04/22/02	NF	1	1	-75	-	-	-	-	-
N15/N14 (as NO3)	1	524	04/22/02	NF	1	1	-3.1	-	-	-	-	-
O18/O16	1	524	04/22/02	NF	1	1	-10.8	-	-	-	-	-

Parameters and Analytes	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (pCi/L)	Non-detected Value (pCi/L)	Drinking Water MCL (pCi/L)	Frequency of Detects > Drinking Water MCL
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level at 522.3 ft from top of caseing)										
Americium-241	1	524	04/22/02	F	1	0	-	[0.0255]	15	0/2
Cesium-137	1	524	04/22/02	F	1	0	-	[-0.0129]	-	-
Cobalt-60	1	524	04/22/02	F	1	0	-	[-0.379]	-	-
Gross alpha/beta	1	524	04/22/02	NF	1	0	-	[-0.964]	-	-
Gross beta	1	524	04/22/02	NF	1	0	-	[1.91]	-	-
Gross gamma	1	524	04/22/02	NF	1	0	-	[42.7]	-	-
Plutonium-238	1	524	04/22/02	F	1	0	-	[-0.00637]	15	0/1
Plutonium-239/240	1	524	04/22/02	F	1	0	-	[0.0053]	-	-
Strontium-90	1	524	04/22/02	F	1	0	-	[0.0317]	8	0/1
Tritium	1	524	04/22/02	NF	1	1	12832	-	20000	0/1
Uranium-234	1	524	04/22/02	F	1	1	0.253	-	-	-
Uranium-235	1	524	04/22/02	F	1	0	-	[0.0697]	-	-
Uranium-238	1	524	04/22/02	F	1	1	0.158	-	-	-

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard	Frequency of Detects >NMED Ground
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level at 522.3 ft from top of caseing)												
Acetone	1	524	04/22/02	NF	1	1	5.3	-	-	-	-	-
Total Organic Carbon	1	524	04/22/02	NF	1	1	797	-	-	-	-	-

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level at 522.5 ft from top of caseing)												
Field Parameters												
Field Alkalinity (total as CaCO3)	1	524	06/28/02	NF	1	1	40000	-	-	-	-	-
Dissolved Oxygen (mg/L)	1	524	06/28/02	NF	1	1	7800	-	-	-	-	-
pH	1	524	06/28/02	NF	1	1	7.50	-	>6 & <9	0/1	>6 & <9	0/1
Specific Conductance (uS/cm)	1	524	06/28/02	NF	1	1	333	-	-	0/1	-	0/1
Temperature (deg. C)	1	524	06/28/02	NF	1	1	19.6	-	-	0/1	-	0/1
Turbidity (NTU)	1	524	06/28/02	NF	1	1	0.48	-	-	0/1	-	0/1
Analytes												
Lab Alkalinity (total as CaCO3)	1	524	06/28/02	F	1	1	34500	-	-	-	-	-
Aluminum	1	524	06/28/02	F	1	0	-	[50]	50	0/1	5000	0/1
Aluminum	1	524	06/28/02	NF	1	0	-	[50]	-	-	-	-
Ammonia	1	524	06/28/02	F	1	0	-	[50]	-	-	-	-
Antimony	1	524	06/28/02	F	1	0	-	[2]	6	0/1	-	-
Antimony	1	524	06/28/02	NF	1	0	-	[2]	-	-	-	-
Arsenic	1	524	06/28/02	F	1	0	-	[5]	50	0/1	100	0/1
Arsenic	1	524	06/28/02	NF	1	1	2.24	-	-	-	-	-
Barium	1	524	06/28/02	F	1	0	-	[13.4]	2000	0/1	1000	0/1
Barium	1	524	06/28/02	NF	1	1	13.9	-	-	-	-	-
Beryllium	1	524	06/28/02	F	1	0	-	[0.2]	4	0/1	-	-
Beryllium	1	524	06/28/02	NF	1	0	-	[0.2]	-	-	-	-
Boron	1	524	06/28/02	F	1	1	14.6	-	-	-	750	0/1
Boron	1	524	06/28/02	NF	1	1	15.7	-	-	-	-	-
Bromide	1	524	06/28/02	F	1	1	255	-	-	-	-	-
Cadmium	1	524	06/28/02	F	1	0	-	[1]	5	0/1	10	0/1
Cadmium	1	524	06/28/02	NF	1	0	-	[1]	-	-	-	-
Calcium	1	524	06/28/02	F	1	1	32700	-	-	-	-	-

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Calcium	1	524	06/28/02	NF	1	1	32700	-	-	-	-	-
Chloride	1	524	06/28/02	F	1	1	16700	-	250000	0/1	250000	0/1
Chromium	1	524	06/28/02	F	1	1	50.5	-	100	0/1	50	1/1
Chromium	1	524	06/28/02	NF	1	1	50.7	-	-	-	-	-
Cobalt	1	524	06/28/02	F	1	0	-	[5]	-	-	50	0/1
Cobalt	1	524	06/28/02	NF	1	0	-	[5]	-	-	-	-
Copper	1	524	06/28/02	F	1	1	1.72	-	1300	0/1	1000	0/1
Copper	1	524	06/28/02	NF	1	1	4	-	-	-	-	-
Cyanide (Total)	1	524	06/28/02	NF	1	1	5.08	-	-	-	-	-
Fluoride	1	524	06/28/02	F	1	1	414	-	4000	0/1	1600	0/1
Iron	1	524	06/28/02	F	1	0	-	[50]	300	0/1	1000	0/1
Iron	1	524	06/28/02	NF	1	0	-	[50]	-	-	-	-
Lead	1	524	06/28/02	F	1	0	-	[2]	15	0/1	50	0/1
Lead	1	524	06/28/02	NF	1	0	-	[2]	-	-	-	-
Magnesium	1	524	06/28/02	F	1	1	5360	-	-	-	-	-
Magnesium	1	524	06/28/02	NF	1	1	5270	-	-	-	-	-
Manganese	1	524	06/28/02	F	1	1	1.96	-	50	0/1	200	0/1
Manganese	1	524	06/28/02	NF	1	1	1.95	-	-	-	-	-
Mercury	1	524	06/28/02	F	1	0	-	[0.2]	2	0/1	-	-
Mercury	1	524	06/28/02	NF	1	0	-	[0.2]	-	-	2	0/1
Molybdenum	1	524	06/28/02	F	1	1	0.788	-	-	-	-	-
Molybdenum	1	524	06/28/02	NF	1	1	1.19	-	-	-	-	-
Nickel	1	524	06/28/02	F	1	0	-	[2.87]	100	0/1	200	0/1
Nickel	1	524	06/28/02	NF	1	0	-	[3.69]	-	-	-	-
Nitrate-Nitrite as N	1	524	06/28/02	F	1	1	12500	-	10000	1/1	-	-
Oxalate	1	524	06/28/02	F	1	0	-	[1000]	-	-	-	-
Perchlorate	1	524	06/28/02	F	1	1	179	-	-	-	-	-
Potassium	1	524	06/28/02	F	1	1	623	-	-	-	-	-
Potassium	1	524	06/28/02	NF	1	1	618	-	-	-	-	-
Selenium	1	524	06/28/02	F	1	0	-	[5]	50	0/1	50	0/1
Selenium	1	524	06/28/02	NF	1	0	-	[5]	-	-	-	-
Silicon Dioxide	1	524	06/28/02	F	1	1	33400	-	-	-	-	-
Silicon Dioxide	1	524	06/28/02	NF	1	1	33000	-	-	-	-	-
Silver	1	524	06/28/02	F	1	0	-	[5]	100	0/1	50	0/1

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Silver	1	524	06/28/02	NF	1	0	-	[5]	-	-	-	-
Sodium	1	524	06/28/02	F	1	1	21300	-	-	-	-	-
Sodium	1	524	06/28/02	NF	1	1	21100	-	-	-	-	-
Strontium	1	524	06/28/02	F	1	1	157	-	-	-	-	-
Strontium	1	524	06/28/02	NF	1	1	161	-	-	-	-	-
Sulfate	1	524	06/28/02	F	1	1	25300	-	250000	0/1	600000	0/1
Thallium	1	524	06/28/02	F	1	0	-	[0.5]	2	0/1	-	-
Thallium	1	524	06/28/02	NF	1	1	0.108	-	-	-	-	-
Total Kjeldahl Nitrogen	1	524	06/28/02	F	1	0	-	[100]	-	-	-	-
Total Kjeldahl Nitrogen	1	524	06/28/02	NF	1	1	60	-	-	-	-	-
Total Phosphorus	1	524	06/28/02	F	1	1	30	-	-	-	-	-
Uranium	1	524	06/28/02	F	1	1	0.141	-	20	0/1	5000	0/1
Uranium	1	524	06/28/02	NF	1	1	0.163	-	-	-	-	-
Vanadium	1	524	06/28/02	F	1	0	-	[5]	-	-	-	-
Vanadium	1	524	06/28/02	NF	1	1	0.71	-	-	-	-	-
Zinc	1	524	06/28/02	F	1	0	-	[2.41]	5000	0/1	10000	0/1
Zinc	1	524	06/28/02	NF	1	0	-	[2.39]	-	-	-	-
Stable Isotopes (per mil)												
D/H	1	524	06/28/02	NF	1	1	-62	-	-	-	-	-
N15/N14	1	524	06/28/02	NF	1	1	NA	-	-	-	-	-
O18/O16	1	524	06/28/02	NF	1	1	-10.6	-	-	-	-	-

NA Not available

Parameters and Analytes	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (pCi/L)	Non-detected Value (pCi/L)	Drinking Water MCL (pCi/L)	Frequency of Detects > Drinking Water MCL
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level at 522.5 ft from top of casing)										
Americium-241	1	524	06/28/02	F	1	0	-	[0.0128]	15	0/2
Americium-241	1	524	06/28/02	NF	1	0	-	[0.0108]	NA	NA
Cesium-137	1	524	06/28/02	F	1	0	-	[0.892]	NA	NA
Cesium-137	1	524	06/28/02	NF	1	0	-	[1.5]	NA	NA
Cobalt-60	1	524	06/28/02	F	1	0	-	[0.892]	NA	NA
Cobalt-60	1	524	06/28/02	NF	1	0	-	[-1.98]	NA	NA
Gross alpha/beta	1	524	06/28/02	NF	1	0	-	[0.956]	NA	NA
Gross beta	1	524	06/28/02	NF	1	0	-	[3.97]	NA	NA
Gross gamma	1	524	06/28/02	NF	1	0	-	[54.9]	NA	NA
Plutonium-238	1	524	06/28/02	F	1	0	-	[0.00563]	15	0/1
Plutonium-238	1	524	06/28/02	NF	1	0	-	[0.0141]	NA	NA
Plutonium-239/240	1	524	06/28/02	F	1	0	-	[0.0141]	NA	NA
Plutonium-239/240	1	524	06/28/02	NF	1	0	-	[0.00468]	NA	NA
Strontium-90	1	524	06/28/02	F	1	0	-	[-0.012]	8	0/1
Strontium-90	1	524	06/28/02	NF	1	0	-	[0.0171]	NA	NA
Tritium	1	524	06/28/02	NF	1	1	14900	-	20000	0/1
Uranium-234	1	524	06/28/02	F	1	1	0.0963	-	NA	NA
Uranium-234	1	524	06/28/02	NF	1	1	0.0999	-	NA	NA
Uranium-235	1	524	06/28/02	F	1	0	-	[0.0107]	NA	NA
Uranium-235	1	524	06/28/02	NF	1	0	-	[0.00238]	NA	NA
Uranium-238	1	524	06/28/02	F	1	1	0.0514	-	NA	NA
Uranium-238	1	524	06/28/02	NF	1	1	0.0404	-	NA	NA

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard	Frequency of Detects >NMED Ground
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level at 522.5 ft from top of caseing)												
DDD[4,4'-]	1	524	06/28/02	NF	1	1	0.0063	-	-	-	-	-
DDT[4,4'-]	1	524	06/28/02	NF	1	1	0.015	-	-	-	-	-
Dissolved Organic Carbon	1	524	06/28/02	F	1	1	680	-	-	-	-	-
Total Organic Carbon	1	524	06/28/02	NF	1	1	727	-	-	-	-	-

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level not recorded)												
Field Parameters												
Field Alkalinity (total as CaCO3)	1	524	09/30/02	NF	1	1	83000	-	-	-	-	-
Dissolved Oxygen (mg/L)	1	524	09/30/02	NF	1	1	7200	-	-	-	-	-
pH	1	524	09/30/02	NF	1	1	7.45	-	>6 & <9	0/1	>6 & <9	0/1
Specific Conductance (uS/cm)	1	524	09/30/02	NF	1	1	335	-	-	0/1	-	0/1
Temperature (deg. C)	1	524	09/30/02	NF	1	1	20.1	-	-	0/1	-	0/1
Turbidity (NTU)	1	524	09/30/02	NF	1	1	0.2	-	-	0/1	-	0/1
Analytes												
Lab Alkalinity (total as CaCO3)	1	524	09/30/02	F	1	1	62000	-	-	-	-	-
Aluminum	1	524	09/30/02	F	1	0	-	[100]	50	0/1	5000	0/1
Aluminum	1	524	09/30/02	NF	1	1	16.3	-	-	-	-	-
Ammonia	1	524	09/30/02	F	1	0	-	[50]	-	-	-	-
Antimony	1	524	09/30/02	F	1	0	-	[2]	6	0/1	-	-
Antimony	1	524	09/30/02	NF	1	0	-	[2]	-	-	-	-
Arsenic	1	524	09/30/02	F	1	0	-	[5]	50	0/1	100	0/1
Arsenic	1	524	09/30/02	NF	1	0	-	[5]	-	-	-	-
Barium	1	524	09/30/02	F	1	1	13.7	-	2000	0/1	1000	0/1
Barium	1	524	09/30/02	NF	1	1	13.9	-	-	-	-	-
Beryllium	1	524	09/30/02	F	1	0	-	[0.2]	4	0/1	-	-
Beryllium	1	524	09/30/02	NF	1	0	-	[0.2]	-	-	-	-
Boron	1	524	09/30/02	F	1	1	16.4	-	-	-	750	0/1
Boron	1	524	09/30/02	NF	1	1	17.2	-	-	-	-	-
Bromide	1	524	09/30/02	F	1	1	302	-	-	-	-	-
Cadmium	1	524	09/30/02	F	1	1	0.044	-	5	0/1	10	0/1

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Cadmium	1	524	09/30/02	NF	1	0	-	[1]	-	-	-	-
Calcium	1	524	09/30/02	F	1	1	34200	-	-	-	-	-
Calcium	1	524	09/30/02	NF	1	1	34200	-	-	-	-	-
Chloride	1	524	09/30/02	F	1	1	16900	-	250000	0/1	250000	0/1
Chromium	1	524	09/30/02	F	1	1	48.8	-	100	0/1	50	0/1
Chromium	1	524	09/30/02	NF	1	1	49.9	-	-	-	-	-
Cobalt	1	524	09/30/02	F	1	0	-	[5]	-	-	50	0/1
Cobalt	1	524	09/30/02	NF	1	0	-	[5]	-	-	-	-
Copper	1	524	09/30/02	F	1	1	1.49	-	1300	0/1	1000	0/1
Copper	1	524	09/30/02	NF	1	1	1.67	-	-	-	-	-
Cyanide (Total)	1	524	09/30/02	NF	1	0	-	[5]	-	-	-	-
Fluoride	1	524	09/30/02	F	1	1	448	-	4000	0/1	1600	0/1
Iron	1	524	09/30/02	F	1	0	-	[100]	300	0/1	1000	0/1
Iron	1	524	09/30/02	NF	1	0	-	[100]	-	-	-	-
Lead	1	524	09/30/02	F	1	0	-	[2]	15	0/1	50	0/1
Lead	1	524	09/30/02	NF	1	0	-	[2]	-	-	-	-
Magnesium	1	524	09/30/02	F	1	1	5670	-	-	-	-	-
Magnesium	1	524	09/30/02	NF	1	1	5670	-	-	-	-	-
Manganese	1	524	09/30/02	F	1	0	-	[5]	50	0/1	200	0/1
Manganese	1	524	09/30/02	NF	1	0	-	[5]	-	-	-	-
Mercury	1	524	09/30/02	F	1	0	-	[0.2]	2	0/1	-	-
Mercury	1	524	09/30/02	NF	1	0	-	[0.2]	-	-	2	0/1
Molybdenum	1	524	09/30/02	F	1	1	0.991	-	-	-	-	-
Molybdenum	1	524	09/30/02	NF	1	1	0.961	-	-	-	-	-
Nickel	1	524	09/30/02	F	1	0	-	[2.43]	100	0/1	200	0/1
Nickel	1	524	09/30/02	NF	1	0	-	[2.44]	-	-	-	-
Nitrate-Nitrite as N	1	524	09/30/02	F	1	1	12500	-	10000	1/1	-	-
Oxalate	1	524	09/30/02	F	1	0	-	[1000]	-	-	-	-
Perchlorate	1	524	09/30/02	F	1	1	162	-	-	-	-	-
Potassium	1	524	09/30/02	F	1	1	658	-	-	-	-	-
Potassium	1	524	09/30/02	NF	1	1	657	-	-	-	-	-
Selenium	1	524	09/30/02	F	1	0	-	[5]	50	0/1	50	0/1
Selenium	1	524	09/30/02	NF	1	0	-	[5]	-	-	-	-

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard (ug/L)	Frequency of Detects >NMED Ground water Standard
Silicon Dioxide	1	524	09/30/02	F	1	1	34500	-	-	-	-	-
Silicon Dioxide	1	524	09/30/02	NF	1	1	34500	-	-	-	-	-
Silver	1	524	09/30/02	F	1	0	-	[5]	100	0/1	50	0/1
Silver	1	524	09/30/02	NF	1	0	-	[5]	-	-	-	-
Sodium	1	524	09/30/02	F	1	1	22000	-	-	-	-	-
Sodium	1	524	09/30/02	NF	1	1	21900	-	-	-	-	-
Strontium	1	524	09/30/02	F	1	1	160	-	-	-	-	-
Strontium	1	524	09/30/02	NF	1	1	159	-	-	-	-	-
Sulfate	1	524	09/30/02	F	1	1	26000	-	250000	0/1	600000	0/1
Thallium	1	524	09/30/02	F	1	0	-	[0.5]	2	0/1	-	-
Thallium	1	524	09/30/02	NF	1	0	-	[0.5]	-	-	-	-
Total Kjeldahl Nitrogen	1	524	09/30/02	NF	1	1	139	-	-	-	-	-
Total Kjeldahl Nitrogen	1	524	09/30/02	F	1	1	156	-	-	-	-	-
Total Phosphorus	1	524	09/30/02	F	1	1	47.1	-	-	-	-	-
Uranium	1	524	09/30/02	F	1	1	0.129	-	20	0/1	5000	0/1
Uranium	1	524	09/30/02	NF	1	1	0.127	-	-	-	-	-
Vanadium	1	524	09/30/02	F	1	1	1.06	-	-	-	-	-
Vanadium	1	524	09/30/02	NF	1	1	1.83	-	-	-	-	-
Zinc	1	524	09/30/02	F	1	1	9.4	-	5000	0/1	10000	0/1
Zinc	1	524	09/30/02	NF	1	1	21.1	-	-	-	-	-
Stable Isotopes (per mil)												
D/H	1	524	09/30/02	NF	1	1	NA	-	-	-	-	-
N15/N14	1	524	09/30/02	NF	1	1	NA	-	-	-	-	-
O18/O16	1	524	09/30/02	NF	1	1	NA	-	-	-	-	-

NA Data is not available at this time

Parameters and Analytes	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (pCi/L)	Non-detected Value (pCi/L)	Drinking Water MCL (pCi/L)	Frequency of Detects > Drinking Water MCL
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level not recorded)										
Americium-241	1	524	09/30/02	F	1	0	-	[0.0137]	15	0/2
Americium-241	1	524	09/30/02	NF	1	0	-	[0.0345]	-	-
Cesium-137	1	524	09/30/02	F	1	0	-	[-1.37]	-	-
Gross alpha/beta	1	524	09/30/02	NF	1	0	-	[0.665]	-	-
Gross beta	1	524	09/30/02	NF	1	0	-	[2.62]	-	-
Gross gamma	1	524	09/30/02	NF	1	0	-	[154]	-	-
Plutonium-238	1	524	09/30/02	F	1	0	-	[-0.00435]	15	0/1
Plutonium-238	1	524	09/30/02	NF	1	0	-	[2.6E-04]	-	-
Plutonium-239	1	524	09/30/02	NF	1	0	-	[-0.00436]	-	-
Plutonium-239	1	524	09/30/02	F	1	0	-	[-0.0218]	15	0/1
Strontium-90	1	524	09/30/02	F	1	0	-	[0.0176]	8	0/1
Strontium-90	1	524	09/30/02	NF	1	0	-	[0.139]	-	-
Tritium	1	524	09/30/02	NF	1	1	15000	-	20000	0/1
Uranium-234	1	524	09/30/02	F	1	0	-	[0.0879]	-	-
Uranium-234	1	524	09/30/02	NF	1	1	0.108	-	-	-
Uranium-235	1	524	09/30/02	F	2	0	-	[-0.0415]	-	-
Uranium-235	1	524	09/30/02	NF	1	0	-	[0]	-	-
Uranium-238	1	524	09/30/02	F	1	0	-	[0.0465]	-	-
Uranium-238	1	524	09/30/02	NF	1	0	-	[0.044]	-	-

Parameters and Analyte	Screen	Depth of Pump Intake (ft bgs)	Collection Dates	Field Preparation	Number of Analyses	Number of Detects	Detected Value (ug/L)	Non-detected Value (ug/L)	Drinking Water MCL (ug/L)	Frequency of Detects > Drinking Water MCL	NMED Ground water Standard	Frequency of Detects >NMED Ground
Screen 1 @ (Screen interval is 485.4 to 524 ft; water level not recorded)												
No Detects	1	524	09/30/02	**No organic constituents were detected in this sampling round; ARG, 02/14/03**								