

US EPA ARCHIVE DOCUMENT

**2005 Water Quality Data from
Exploration Holes 05EA-107 and 04EA-084**

**Golder Associates Ltd., January 2006
Eagle Project – 2005 Bedrock Hydrogeologic
Investigation, Preliminary Water Quality Results**

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TECHNICAL MEMORANDUM

TO:	Jon Cherry, Kennecott Eagle Minerals Company	DATE:	January 13, 2006
FROM:	Jacob Waples and Mike Lemon, Golder Associates	REF NO:	053-2362
EMAIL:	<u>JWOZNIEWICZ@GOLDER.COM</u>		
RE:	EAGLE PROJECT – 2005 BEDROCK HYDROGEOLOGIC INVESTIGATION, PRELIMINARY WATER QUALITY RESULTS		

1.0 INTRODUCTION

On behalf of Kennecott Eagle Minerals Company (KEMC), Golder Associates Inc. (Golder) completed the second phase of the bedrock hydrogeologic characterization in September and October 2005 at the Eagle Project (Project) in Michigan's Upper Peninsula. This memorandum provides water quality data collected as a part of pump tests of boreholes 04EA-084 and 05EA-107. A more comprehensive analysis and review of the water quality data and pump test program will be provided at a later date.

2.0 SAMPLE METHODS

At total of three pump tests were performed in two boreholes, 04EA-084 and 05EA-107. Field parameters were collected throughout the duration of each pump test and are provided in Appendix A. Water quality samples were collected at the conclusion of the pump tests and, in borehole 04EA-084, periodically throughout the test. Field parameters at the time of water quality sample collection are provided in Table 1.

For borehole 05EA-107, a straddle packer tool was used to isolate two select discrete intervals for pumping and sampling, the 18.20 to 34.90 m interval and the 97.52 to 114.22 m interval. One groundwater sample was collected from the 18.20 to 34.90 m interval after purging 1,410 liters, or 12 system volumes¹. One groundwater sample was also collected from the 97.52 to 114.22 m interval after purging 1,590 liters, or 6 system volumes.

For borehole 04EA-084, a single packer tool was used to isolate the lower portion of the borehole from 249.05 to 302.8 m along the borehole. Water samples were collected after 16,480 liters (21 system volumes), 41,960 liters (53 system volumes), and 66,750 liters (86 system volumes) had been purged. In addition, a blind duplicate and field blank sample were collected after 86 system volumes were purged.

¹ One system volume consists of the volume of the isolated borehole interval plus the volume of the rods.

Water quality samples were collected in laboratory supplied bottles, filtered when appropriate for dissolved constituents, and preserved with ice, with the exception of the mercury sample, which did not require preservation. Water quality samples were delivered to the laboratory following appropriate chain-of-custody protocol.

Based on the system volumes purged and the relative consistency of the field parameters throughout the pumping tests (Appendix A), water quality results can be considered representative of the intervals sampled.

3.0 CHEMISTRY RESULTS

Water quality results are summarized in Table 2. Analytical laboratory sheets are provided in Attachment B. Quality Control/Quality Assurance completed for this study included collection and analysis of a field blank and blind duplicate as presented on Table 3.

TABLES

TABLE 1

SAMPLE INFORMATION AND FIELD PARAMETERS

Borehole	Sample Interval (m along borehole)	Volume Purged (liters)	Temperature (deg C)	pH	Conductivity (uS/cm)	Salinity (0/00)	TDS (mg/L)	Turbidity (NTU)
05EA-107	18.20 to 34.90	1410	9.4	7.57	359	0.2	168	18.5
	97.52 to 114.22	1590	12.3	7.52	599	0.3	287	56.0
04EA-084	249.05 to 302.08	16480	9.4	8.25	4980	2.6	2540	5.92
		41960	10.4	8.42	5980	3.1	3060	2.35
		66750	8.5	8.10	5590	2.9	2840	2.35

TABLE 2
SAMPLING RESULTS

Sample Location		05EA-107	05EA-107	04EA-084	04EA-084	04EA-084	04EA-084	04EA-084
Sample Interval Depth Along Borehole in Meters		18.20 to 34.90	97.52 to 114.22	249.05 to 302.08	249.05 to 302.08	249.05 to 302.08	249.05 to 302.08	249.05 to 302.08
Sample Date and Time		9/20/05 - 09:15	9/18/05 - 11:40	9/23/05 - 11:50	9/23/05 - 11:50	9/26/05 - 10:00	9/29/05 - 08:00	9/29/05 - 08:00
Volume Purged Prior to Sampling		12 System Volumes Purged	6 System Volumes Purged	21 System Volumes Purged	21 System Volumes Purged	54 System Volumes Purged	86 System Volumes Purged	86 System Volumes Purged
Field Parameters	Units							
pH	s.u.	7.57	7.52	8.25	8.25	8.42	8.1	8.1
Conductivity	µS/cm	359	599	4980	4980	5980	5590	5590
Salinity	‰	0.2	0.3	2.6	2.6	3.1	2.9	2.9
Total Dissolved Solids	mg/L	168	287	2540	2540	3060	2840	2840
Turbidity	NTU	18.5	56	5.92	5.92	2.35	2.35	2.35
Temperature (transducer)	°C	9.4	12.3	9.4	9.4	10.4	8.5	8.5
Metals by EPA 6000/7000	Units	Dissolved Metals	Dissolved Metals	Dissolved Metals	Total Metals	NA	Dissolved Metals	Total Metals
Aluminum	ug/L	< 50	< 50	< 50	< 50	NA	< 50	< 50
Antimony	ug/L	< 5	< 5	< 5	< 5	NA	< 5	< 5
Arsenic	ug/L	< 2	< 2	23	3.7	NA	19	18
Barium	ug/L	< 20	< 20	24	23	NA	< 20	< 100
Beryllium	ug/L	< 1	< 1	< 1	< 1	NA	< 1	< 1
Boron	ug/L	940	4100	5800	5700	NA	5900	5000
Cadmium	ug/L	< 0.5	< 0.5	< 5	< 5	NA	< 5	< 5
Calcium	mg/L	5.9	3.1	83	79	NA	76	72
Chromium	ug/L	< 5	< 5	< 5	< 5	NA	< 5	< 5
Cobalt	ug/L	< 10	< 10	< 10	< 10	NA	< 10	< 10
Copper	ug/L	< 5	< 5	< 5	< 5	NA	< 5	< 5
Iron	ug/L	88	79	2200	2500	NA	1800	2600
Lead	ug/L	< 1	< 1	< 1	< 1	NA	< 1	< 1
Lithium	ug/L	13	16	140	130	NA	130	120
Magnesium	mg/L	2.4	0.98	67	66	NA	61	61
Manganese	ug/L	22	< 20	83	81	NA	68	68
Molybdenum	ug/L	< 10	< 10	< 10	< 10	NA	< 10	< 10
Mercury	ng/L	0.81	3.51	0.44	0.6	NA	0.21 J	0.66 J
Nickel	ug/L	< 25	< 25	< 25	< 25	NA	< 25	< 25
Selenium	ug/L	< 1	< 1	21	< 1	NA	17	3.6
Silver	ug/L	< 0.2	< 0.2	< 0.2	< 0.2	NA	0.46	< 1
Sodium	mg/L	21	80	1100	1000	NA	970	1200
Strontium	ug/L	170	91	5300	4700	NA	4800	4700
Zinc	ug/L	< 10	12	18	26	NA	19	39
Potassium	mg/L	2.9	1.7	9.2	8.8	NA	9.2	8.5
Physical/Chemical Parameters	Units							
Alkalinity, Bicarbonate	mg/L	39	70	36	NA	37	37	NA
Alkalinity, Carbonate	mg/L	< 2	28	< 1	NA	< 2	2.9	NA
Alkalinity, Total	mg/L	83	98	34	NA	37	40	NA
Chloride	mg/L	1.15	97.3	1980	NA	2040	2010	NA
Fluoride	mg/L	0.53	0.85	0.95	NA	0.99	1	NA
Nitrogen, Ammonia	mg/L	0.076	0.093	0.29	NA	NA	0.26	NA
Nitrogen, Nitrate	mg/L	< 0.05	< 0.05	< 0.05	NA	< 0.05	< 0.05	NA
Phosphorus, Total	mg/L	< 0.01	0.033	< 0.01	NA	NA	0.0148	NA
Residue, Dissolved	mg/L	76	278	3990	NA	3980	3560	NA
Sulfate	mg/L	< 5	< 5	< 5	NA	< 5	< 5	NA
Sulfide	mg/L	< 1	< 1	< 1	NA	NA	< 1	NA
Tritium	TU	< 0.8	0.6	< 0.69	NA	< 0.69	< 0.71	NA

Notes:

"U" Mercury sample results below the method detection limit (MDL) were reported at the MDL.
 "J" Mercury result is an estimate. See notes in laboratory reports in Attachment B
 NA Not Analyzed

Prepared By: MSJ
 Checked By: PU
 Reviewed By: JSW

ANALYTICAL RESULTS FOR QA/QC SAMPLES

Sample Location		B4EA-094	Blind Duplicate	Field Blank
Sample Date and Time		9/29/05 - 08:00	9/29/05 - 08:00	9/29/05 - 08:00
Dissolved Metals		Units		
Aluminum	ug/L	< 50	< 50	< 50
Antimony	ug/L	< 5	< 5	< 5
Arsenic	ug/L	19	23	< 2
Barium	ug/L	< 20	< 20	< 20
Beryllium	ug/L	< 1	< 1	< 1
Boron	ug/L	5900	5800	110
Cadmium	ug/L	< 5	< 5	< 0.5
Calcium	mg/L	76	75	< 0.5
Chromium	ug/L	< 5	< 5	< 5
Cobalt	ug/L	< 10	< 10	< 10
Copper	ug/L	< 5	< 5	< 5
Iron	ug/L	1800	1600	< 20
Lead	ug/L	< 1	1	< 1
Lithium	mg/L	130	140	< 8
Magnesium	mg/L	61	61	< 0.5
Manganese	ug/L	68	67	< 20
Molybdenum	ug/L	< 10	< 10	< 10
Mercury	ng/L	0.21	0.17	0.17
Nickel	ug/L	< 25	< 25	< 25
Selenium	ug/L	17	21	< 1
Silver	ug/L	0.46	1.1	1.3
Sodium	mg/L	970	960	0.77
Strontium	ug/L	4800	4700	< 50
Zinc	ug/L	19	19	< 10
Potassium	mg/L	9.2	9.3	< 0.5
Total Metals		Units		
Aluminum	ug/L	< 50	67	NA
Antimony	ug/L	< 5	< 5	NA
Arsenic	ug/L	18	18	NA
Barium	ug/L	< 100	< 100	NA
Beryllium	ug/L	< 1	< 1	NA
Boron	ug/L	5900	5600	NA
Cadmium	ug/L	< 5	< 5	NA
Calcium	mg/L	72	81	NA
Chromium	ug/L	< 5	< 5	NA
Cobalt	ug/L	< 10	< 10	NA
Copper	ug/L	< 5	< 5	NA
Iron	ug/L	2600	2900	NA
Lead	ug/L	< 1	< 1	NA
Lithium	ug/L	120	130	NA
Magnesium	mg/L	61	65	NA
Manganese	ug/L	68	73	NA
Molybdenum	ug/L	< 10	< 10	NA
Mercury	ng/L	0.66 J	0.27	NA
Nickel	ug/L	< 25	< 25	NA
Selenium	ug/L	3.4	7.7	NA
Silver	ug/L	< 1	< 1	NA
Sodium	mg/L	1200	1200	NA
Strontium	ug/L	4700	5100	NA
Zinc	ug/L	39	40	NA
Potassium	mg/L	8.5	9	NA
Physical/Chemical Parameters		Units		
Alkalinity, Bicarbonate	mg/L	37	38	NA
Alkalinity, Carbonate	mg/L	2.9	< 2	NA
Alkalinity, Total	mg/L	40	38	NA
Chloride	mg/L	2010	2020	NA
Fluoride	mg/L	1	0.99	NA
Nitrogen, Ammonia	mg/L	0.26	0.27	NA
Nitrogen, Nitrate	mg/L	< 0.05	< 0.05	NA
Phosphorus, Total	mg/L	0.0148	0.0136	NA
Residue, Dissolved	mg/L	3560	3690	NA
Sulfate	mg/L	< 5	< 5	NA
Sulfide	mg/L	< 1	< 1	NA
Turbidity	ITU	< 0.71	< 0.83	NA

Notes:
 "I" Mercury sample results below the method detection limit (MDL) were reported at the MDL.
 "J" Mercury result is an estimate. See notes in laboratory reports in Attachment B
 NA Not Analyzed
 Detected analytes are shown **BOLD**

ATTACHEMENT A
MEASURED FIELD PARAMETERS

Golder Associates

I:\05\2362\0100\TM-2005BEDRKHYDROGEOINV-PRELWQRES-011306\0532362 TM-011306.DOC

FIELD PARAMETERS MEASURED FOR 04EA-084 TEST

Date	Time (hr)	(min)	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (0/00)	TDS (mg/L)	Turbidity (NTU)
9/22/2005	8	35	48.4	9.1	7.51	6060	3.2	3100	85.9
	8	45	80.6	8.3	7.69	6070	3.2	3100	72.3
	9	0	129.6	8.4	8.03	4710	2.4	2370	88.8
	9	30	229.6	8.8	8.28	5470	2.8	2760	66.7
	10	0	325.3	9.1	7.54	5480	2.8	2770	41.1
	10	35	433.6	8.9	7.83	5460	2.9	2800	38.5
	11	4	529.2	9.0	8.38	5480	2.8	2780	31.4
	11	30	613.0	9.4	7.99	5460	2.8	2770	29.9
	12	0	709.8	9.6	7.42	5210	2.7	2700	36.2
	12	30	807.6	9.2	8.02	5360	2.8	2730	22
	13	0	897.6	9.4	8.18	5310	2.8	2710	37
	13	30	986.7	9.3	8.32	5270	2.7	2690	17
	14	0	1075.8	9.4	8.38	5320	2.8	2700	14.4
	14	30	1164.1	9.1	8.42	5280	2.7	2700	11.1
	15	0	1252.3	9.1	8.47	5330	2.8	2700	10.9
	15	45	1384.7	9.7	8.06	5240	2.7	2680	19.6
	17	0	1550.3	9.0	7.88	5333	2.8	2710	13
	18	0	1702.2	9.3	8.55	5180	2.7	2660	9.13
	19	0	1853.4	9.2	8.90	5290	2.7	2670	11.7
	19	30	1929.1	8.6	7.90	5340	2.8	2700	15
	20	0	2004.1	8.6	8.02	5310	2.7	2680	7.95
	21	0	2155.3	8.9	8.23	5280	2.6	2600	9.89
	22	0	2305.4	8.9	8.32	5320	2.8	2690	7.24
	23	0	2454.7	8.4	7.98	5320	2.7	2690	6.97
9/23/2005	0	0	2604.1	8.3	8.01	5330	2.7	2690	6.67
	1	0	2755.4	8.3	8.55	5330	2.7	2690	5.47
	2	0	2906.0	8.2	7.90	5350	2.8	2700	5.29
	3	0	3057.9	8.0	7.97	5380	2.8	2710	4.78
	4	0	3207.9	7.9	7.90	5380	2.7	2680	7.45
	5	0	3359.2	7.9	8.01	5260	2.7	2660	5.1
	6	0	3508.6	7.6	7.99	5370	2.8	2670	5.03
	7	0	3659.2	7.5	7.85	5370	2.7	2690	4.71
	8	0	3808.6	7.4	7.76	5490	2.8	2730	4.73
	8	30	3884.8	8.2	8.34	5180	2.7	2610	5.55
	9	0	3960.5	8.9	8.45	5280	2.7	2670	5.73
	11	0	4255.6	9.0	8.23	5040	2.6	2550	5.35

FIELD PARAMETERS MEASURED FOR 04EA-084 TEST

Date	Time (hr) (min)		Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (0/00)	TDS (mg/L)	Turbidity (NTU)
	11	40	4354.7	9.4	8.25	4980	2.6	2540	5.92
	13	35	4523.8	9.8	8.46	4950	2.6	2520	5.51
	15	0	4664.0	10.1	8.48	4950	2.6	2510	5.51
	16	0	4759.7	10.0	8.37	5010	2.6	2540	5.69
	17	0	4856.0	9.5	8.40	4840	2.4	2340	6.11
	18	0	4953.8	9.5	8.40	4940	2.6	2480	7.42
	19	0	5049.0	9.2	8.20	4720	2.4	2380	7.64
	20	0	5146.3	9.3	7.99	4770	2.5	2460	5.18
	21	0	5242.6	10.3	8.60	4850	2.5	2460	3.79
	22	0	5336.8	9.8	8.79	4930	2.5	2490	3.03
	23	0	5431.6	11.5	8.42	4770	2.5	2400	3.5
9/24/2005	0	0	5527.3	9.1	8.51	4940	2.5	2490	4.57
	1	0	5625.1	10.0	8.26	4870	2.5	2470	3.04
	2	0	5722.4	9.8	8.55	4760	2.1	2480	3.17
	3	0	5818.2	10.0	8.66	4760	2.5	2420	3.43
	4	0	5914.9	9.9	7.42	4700	2.4	2420	4.52
	5	0	6012.8	9.4	8.38	4870	2.5	2460	3.4
	6	0	6109.0	9.6	8.43	4860	2.5	2480	3.02
	7	0	6204.8	9.3	8.56	4890	2.5	2480	2.95
	8	0	6299.0	9.3	8.54	4840	2.5	2460	3.13
	9	0	6392.3	9.0	8.12	6110	3.2	3140	3.03
	10	0	6487.5	9.5	8.33	6160	3.2	3160	2.9
	11	0	6582.2	9.4	8.01	6170	3.2	3180	3.05
	12	0	6675.5	9.3	8.01	6250	3.3	3220	3.06
	13	0	6770.8	9.9	8.24	6180	3.3	3190	2.79
	14	0	6865.5	9.5	8.77	6650	3.5	3450	4.77
	15	0	6962.8	8.7	8.52	6820	3.6	3550	3.35
	16	0	7059.0	8.0	8.97	6970	3.7	3550	4.91
	18	0	7252.6	7.9	8.82	6640	3.5	3380	2.36
	19	0	7347.3	7.9	10.69	6650	3.5	3380	2.17
	20	0	7443.6	8.3	8.30	6620	3.3	3290	2.17
	21	0	7539.8	7.9	9.07	6670	3.5	3400	1.85
	22	0	7637.1	8.3	10.70	6640	3.4	3360	1.92
	23	0	7734.4	7.9	10.89	6690	3.4	3340	1.89
9/25/2005	0	0	7831.7	8.3	9.09	6700	3.5	3410	1.51
	1	0	7928.0	7.9	8.96	6680	3.5	3400	1.56

FIELD PARAMETERS MEASURED FOR 04EA-084 TEST

Date	Time (hr)	Time (min)	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (0/00)	TDS (mg/L)	Turbidity (NTU)
	2	0	8024.8	8.3	8.93	6720	3.5	3420	1.44
	3	0	8121.0	8.0	8.91	6700	3.5	3400	1.44
	4	0	8218.8	8.2	8.91	6740	3.5	3440	1.41
	5	0	8316.1	8.2	8.84	6670	3.5	3420	1.41
	6	0	8411.9	7.9	8.90	6660	3.5	3420	1.31
	7	0	8508.7	7.9	8.91	6540	3.5	3460	1.27
	8	0	8603.4	7.9	8.91	6810	3.3	3450	1.3
	9	0	8698.6	7.9	8.92	6310	3.2	3200	1.96
	10	0	8794.4	7.9	10.50	6340	3.2	3160	4.68
	11	0	8890.6	7.9	10.50	8110	3.3	3200	2.63
	12	0	8984.9	7.9	11.50	6240	3.3	3160	1.98
	13	0	9079.6	8.2	7.14	5050	2.6	2550	1.82
	14	0	9174.4	9.3	7.13	5010	2.6	2530	1.59
	15	0	9269.1	9.1	6.80	4960	2.6	2510	2.03
	16	0	9362.8	9.2	6.92	4840	2.6	2440	4.29
	17	0	9458.1	9.3	6.60	5970	2.6	2510	1.74
	18	0	9554.3	9.5	7.66	5850	3.1	3010	1.85
	19	0	9651.6	9.4	7.62	5830	3.0	2040	1.8
	20	0	9747.4	10.0	7.74	5920	3.1	3050	1.22
	21	0	9842.6	9.2	7.53	5830	3.1	3040	2.48
	22	0	9938.4	10.6	8.39	5790	3.1	3010	1.69
	23	0	10033.6	9.1	7.96	5920	3.1	3040	2.19
9/26/2005	0	0	10128.8	10.4	7.92	5840	3.1	3020	2.46
	1	0	10224.1	9.8	8.66	5760	3.0	2970	2.36
	2	0	10320.3	10.4	8.65	5820	3.0	2990	1.45
	3	0	10415.6	10.2	8.61	5780	3.0	2970	3.67
	4	0	10511.3	10.2	8.11	5730	3.0	2930	2.47
	5	0	10608.6	9.4	8.49	5870	3.1	3020	2.88
	6	0	10703.8	10.2	8.42	5830	3.0	2990	2.14
	7	0	10800.1	10.4	8.31	5820	3.1	3000	1.87
	8	0	10896.4	9.9	8.31	5920	3.1	3020	2.3
	10	0	11085.3	10.4	8.42	5980	3.1	3060	2.35
	12	0	11272.8	10.7	8.95	4970	2.5	2480	2.53
	14	0	11462.3	10.8	8.83	5800	3.0	2970	2.68
	16	0	11654.8	10.9	8.89	5630	2.9	2880	2.81
	18	0	11844.3	9.5	7.61	5750	3.0	2920	2.75

FIELD PARAMETERS MEASURED FOR 04EA-084 TEST

Date	Time (hr)	(min)	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (0/00)	TDS (mg/L)	Turbidity (NTU)
	20	0	12034.8	10.9	8.04	5780	3.0	2960	3.61
	22	0	12227.8	9.4	8.10	5400	2.8	2760	3.87
9/27/2005	0	0	12421.4	11.1	8.27	3770	1.9	1880	2.12
	2	0	12613.4	9.0	8.39	4580	2.3	2790	2.53
	4	0	12805.9	10.7	8.29	5790	3.0	2980	2.36
	6	0	12997.9	9.3	8.39	5740	3.0	2930	2.45
	8	0	13187.4	8.5	8.37	5900	3.1	3000	2.03
	10	0	13376.4	9.3	8.47	5860	3.1	3000	4.59
	12	0	13562.9	9.8	8.57	5590	2.9	2850	2.47
	14	0	13752.9	10.0	8.45	5020	2.7	2750	2.55
	16	0	13942.9	9.8	8.47	5000	2.7	2820	2.52
	18	0	14128.9	10.0	7.97	5460	2.9	2800	2.68
	20	0	14316.9	10.5	8.03	5670	3.0	2910	3.52
	22	0	14507.9	9.6	8.09	5760	3.0	2940	2.62
9/28/2005	0	0	14698.4	10.5	8.02	5540	2.9	2820	2.79
	2	0	14887.9	10.6	8.35	5680	3.0	2910	2.25
	4	0	15079.9	10.6	8.05	5690	3.0	2930	2.74
	6	0	15270.4	10.6	8.40	5690	3.0	2910	2.51
	8	0	15459.9	9.5	8.06	5740	3.0	2920	3.47
	10	0	15645.5	9.8	8.16	5710	3.0	2940	2.72
	12	0	15833.0	9.8	7.92	5600	2.9	2900	2.56
	14	0	16020.0	9.8	7.90	5590	2.9	2900	2.5
	16	0	16207.5	9.1	8.13	5890	2.8	2900	3.47
	18	0	16396.0	8.5	8.12	5830	3.0	2960	2.5
	20	0	16583.5	9.1	8.13	5800	3.0	2940	2.49
	22	0	16774.5	8.6	7.99	5760	3.0	2910	2.88
9/29/2005	0	0	16966.0	8.4	8.06	5770	3.0	2940	3.23
	2	0	17157.5	9.1	7.60	5590	2.9	2810	2.7
	4	0	17348.5	8.2	8.05	5730	3.0	2880	3.13
	6	0	17539.0	8.5	8.10	5590	2.9	2840	2.35

Notes:

out of calibration

FIELD PARAMETERS FOR 05EA-107 (18.20 TO 34.90 METER INTERVAL)

Date	Time of Day	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (%)	TDS (mg/L)	Turbidity (NTU)
	13:27	5.5	12.1	8.70	633	0.3	301	--
	14:00	10.4	11.8	8.68	549	0.3	260	390
	14:30	14.7	11.5	8.53	454	0.2	215	264
	15:00	18.6	11.1	8.44	366	0.2	172	204
	15:30	23.2	12.0	8.39	374	0.2	177	183
	16:00	28.1	12.9	8.43	--	--	--	181
	16:30	32.3	12.2	8.20	--	--	--	172
	17:00	36.5	11.6	8.20	--	--	--	159
	17:30	40.8	12.2	8.15	--	--	--	151
	18:00	45.0	10.9	7.93	--	--	--	132
	18:30	49.6	11.1	7.95	--	--	--	122
	19:00	53.8	11.0	7.83	--	--	--	116
	19:30	58.4	10.1	7.92	--	--	--	107
	20:00	62.6	10.0	7.86	363	0.2	171	116
	20:30	67.2	9.7	8.00	367	0.2	173	116
	21:00	72.1	10.9	7.86	361	0.2	171	108
	21:30	76.7	10.5	7.80	366	0.2	173	89.3
	22:00	80.9	10.1	7.75	355	0.2	167	102
	22:30	85.2	10.2	7.35	364	0.2	172	91.7
	23:00	89.7	10.1	7.53	369	0.2	174	93.6
	23:30	94.3	10.3	7.25	364	0.2	172	94.2
	0:00	98.2	9.8	7.84	364	0.2	171	78.1
	0:30	102.8	10.2	7.89	361	0.2	170	79.3
	1:00	106.7	10.2	7.64	362	0.2	166	70.9
	1:30	111.0	9.8	7.80	364	0.2	171	67.7
	2:00	115.2	10.2	7.76	321	0.2	151	59.1
	2:30	119.5	10.5	7.74	355	0.2	206	108
	3:00	123.7	9.7	7.58	367	0.2	173	54.4
	3:30	128.3	9.7	7.44	362	0.2	170	63.3
	4:00	132.8	9.7	7.55	359	0.2	170	51.2
	4:30	137.1	9.7	7.45	358	0.2	168	49.9
	5:00	141.3	9.8	7.65	367	0.2	170	52.4
	5:30	145.9	9.7	7.56	363	0.2	170	51.3
	6:00	150.5	9.3	7.63	351	0.2	165	53.3
	6:30	154.7	9.1	7.67	354	0.2	167	60.7
	7:00	159.2	9.3	7.67	354	0.2	167	47.2

FIELD PARAMETERS FOR 05EA-107 (18.20 TO 34.90 METER INTERVAL)

Date	Time of Day	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (%)	TDS (mg/L)	Turbidity (NTU)
	7:30	162.8	9.6	7.64	360	0.2	169	45.1
	8:00	167.1	9.2	7.62	351	0.2	165	42.8
	8:30	172.3	9.7	7.61	356	0.2	167	40
	9:00	176.2	9.4	7.63	356	0.2	167	44.5
	9:30	181.1	9.6	7.59	361	0.2	169	43.2
	10:00	185.3	9.9	7.62	364	0.2	171	39.7
	10:30	189.9	9.2	7.57	365	0.2	171	42
	11:00	195.1	9.3	--	359	0.2	169	36.6
	11:30	200.7	9.7	7.61	358	0.2	169	42
	12:00	204.6	9.3	7.56	357	0.2	168	35.7
	12:30	208.5	9.3	7.54	320	0.1	150	38.8
	13:00	212.4	9.6	7.58	355	0.2	167	36.9
	13:30	217.6	9.2	7.60	357	0.2	168	35.6
	14:00	221.6	9.4	7.53	357	0.2	168	38.1
	14:30	225.5	9.3	7.56	356	0.2	168	33.9
	15:00	232.0	9.8	7.52	353	0.2	167	34.6
	15:30	235.9	9.4	7.50	344	0.2	162	32.4
	16:00	240.8	10.3	7.50	358	0.2	168	28.5
	17:30	250.2	10.6	7.55	355	0.2	169	35.1
	18:00	254.8	10.1	7.51	351	0.2	165	32.9
	18:30	260.2	9.8	7.56	359	0.2	169	28.3
	19:00	264.2	9.8	7.48	356	0.2	168	27
	20:00	269.5	10.0	7.47	347	0.2	163	45.4
	20:30	274.7	9.8	7.48	355	0.2	168	35.3
	21:00	279.9	9.5	7.45	352	0.2	166	30.2
	21:30	284.1	9.7	7.48	354	0.2	163	33.1
	22:00	288.4	9.8	7.90	354	0.2	167	40
	22:30	291.6	9.4	7.88	352	0.2	165	31.9
	23:00	296.9	9.3	7.74	358	0.2	168	36.4
	23:30	300.8	9.5	7.70	354	0.2	166	26.9
	0:00	306.0	9.4	7.70	357	0.2	168	29
	0:30	309.9	9.1	7.78	357	0.2	168	27.2
	1:00	314.1	9.1	7.72	357	0.2	168	26.2
	1:30	319.4	9.1	7.68	358	0.2	168	24.2
	2:00	324.3	9.7	7.77	353	0.2	167	25.2
	2:30	328.2	9.4	7.72	349	0.2	165	26.4

FIELD PARAMETERS FOR 05EA-107 (18.20 TO 34.90 METER INTERVAL)

Date	Time of Day	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (%)	TDS (mg/L)	Turbidity (NTU)
	3:00	332.1	9.4	7.68	358	0.2	168	22.8
	3:30	337.6	9.1	7.77	355	0.2	166	28.2
	4:00	341.5	9.2	7.75	358	0.2	170	25.8
	4:30	346.5	8.7	7.71	356	0.2	167	29.5
	5:00	351.0	8.6	7.72	355	0.2	167	28.3
	5:30	354.6	9.0	7.76	354	0.2	166	28.6
	6:00	359.5	8.8	7.64	361	0.2	169	31.1
	6:30	363.4	8.6	7.66	357	0.2	167	24.4
	7:00	368.0	8.7	7.76	360	0.2	169	27.9
	7:30	372.6	8.4	7.64	357	0.2	167	21.6
	8:19	373.8	8.4	7.56	353	0.2	165	37.3
	8:28	374.4	8.4	7.58	361	0.2	168	25.4
	8:34	374.4	8.6	7.61	358	0.2	168	18.6
	8:40	375.3	8.7	7.58	353	0.2	165	17.2
	8:50	376.2	9.0	7.60	359	0.2	168	18.1
	9:00	377.1	9.4	7.57	359	0.2	168	18.5

FIELD PARAMETERS FOR 05EA-017 (97.52 TO 114.22 METER INTERVAL) TEST

Date	Time of Day	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (%)	TDS (mg/L)	Turbidity (NTU)
9/16/2005	19:15	6.2	12.2	5.68	147	--	--	--
	19:45	15.7	13.0	8.27	170	--	--	--
	20:30	23.2	9.9	8.34	175	--	--	--
	21:15	31.0	9.3	8.50	198	--	--	--
	22:00	36.5	9.9	8.80	191	--	--	--
	22:45	44.0	10.5	8.45	183	--	--	--
9/17/2005	23:30	50.9	9.9	6.80	216	--	--	--
	0:15	57.4	9.8	6.22	264	--	--	--
	1:00	65.3	10.1	6.39	317	--	--	--
	1:45	71.8	10.5	6.37	382	--	--	--
	2:30	78.3	9.8	6.44	428	--	--	--
	3:15	85.5	10.6	6.64	276	--	--	--
	4:00	92.3	9.8	6.65	494	--	--	1000
	4:45	99.2	9.7	6.24	513	--	--	824
	5:30	105.4	9.2	6.42	542	--	--	703
	6:15	111.3	9.3	6.30	348	--	--	813
	7:00	119.4	9.1	6.25	578	--	--	1000
	7:45	126.3	8.4	6.34	572	--	--	457
	8:30	133.4	8.4	6.10	606	--	--	370
	9:15	140.6	8.5	5.99	601	--	--	339
	10:20	148.1	10.1	5.50	590	--	--	327
	11:00	155.6	10.0	5.50	587	--	--	331
	11:45	162.8	11.4	6.08	582	0.3	273	352
	12:30	170.3	11.6	5.99	573	0.3	276	331
	13:00	176.5	11.3	6.03	588	0.3	283	291
	13:30	182.3	11.9	5.95	582	0.3	281	257
	14:00	188.6	11.3	5.90	598	0.3	285	240
	14:30	195.4	10.7	5.85	597	0.3	287	244
	15:00	201.6	10.9	6.17	599	0.3	286	192
	15:30	208.1	11.6	6.50	589	0.3	283	201
	16:00	215.0	11.2	6.54	603	0.3	290	154
	16:30	220.9	11.5	6.67	602	0.3	291	145
	17:00	227.7	11.0	6.85	614	0.3	292	142
	17:30	234.2	11.6	6.89	609	0.3	291	138
	18:00	240.4	11.0	6.91	609	0.3	292	132
	18:30	247.0	11.1	6.88	609	0.3	292	133

FIELD PARAMETERS FOR 05EA-017 (97.52 TO 114.22 METER INTERVAL) TEST

Date	Time of Day	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (%)	TDS (mg/L)	Turbidity (NTU)
	19:00	253.5	10.8	6.89	598	0.3	284	122
	19:30	260.0	10.8	6.85	614	0.3	294	121
	20:00	266.2	10.8	--	690	0.3	287	161
	20:30	273.1	10.5	--	609	0.3	291	142
	21:00	279.6	10.4	--	613	0.3	292	156
	21:30	285.8	10.4	--	614	0.3	292	132
	22:00	292.3	10.4	--	605	0.3	289	110
	22:30	298.5	10.4	--	616	0.3	294	111
	23:00	304.4	10.6	--	622	0.3	296	107
	23:30	311.6	10.3	--	613	0.3	292	104
9/18/2005	0:00	317.4	10.3	--	616	0.3	295	96.1
	0:30	323.6	10.5	--	618	0.3	295	95.4
	1:00	330.5	10.7	--	615	0.3	294	91.5
	1:30	336.7	10.8	--	620	0.3	296	82
	2:00	343.2	10.9	--	621	0.3	297	87.2
	2:30	349.7	10.5	--	619	0.3	295	90.6
	3:00	356.2	10.3	--	615	0.3	293	86.4
	3:30	363.1	10.3	--	618	0.3	294	85.3
	4:00	369.6	10.4	--	616	0.3	294	76.6
	4:30	375.2	10.6	--	620	0.3	296	79.1
	5:00	382.4	10.3	--	620	0.3	296	79.4
	5:30	388.9	10.7	--	619	0.3	294	79.9
	6:00	395.1	10.4	--	621	0.3	297	73.7
	6:30	401.3	10.3	--	624	0.3	293	76.4
	7:00	408.5	10.3	--	622	0.3	295	75.6
	7:30	414.3	10.3	--	619	0.3	295	75.5
	8:00	420.2	10.3	7.25	627	0.3	294	71
	9:41	420.2	13.0	7.35	617	0.3	298	185
	9:50	421.2	12.6	7.35	619	0.3	296	151
	10:00	422.3	12.2	7.53	625	0.3	298	132
	10:10	423.4	12.1	7.60	621	0.3	294	92.2
	10:20	424.6	11.9	7.56	619	0.3	296	85.5
	10:30	425.9	11.9	7.57	617	0.3	293	68.4
	10:40	427.1	12.1	7.58	617	0.3	295	62.5
	10:50	428.4	12.9	7.51	608	0.3	289	70
	11:00	429.7	12.4	7.50	602	0.3	291	61.1

FIELD PARAMETERS FOR 05EA-017 (97.52 TO 114.22 METER INTERVAL) TEST

Date	Time of Day	Purge Volume (gallons)	Temp (deg C)	pH (s.u.)	Conductivity (uS/cm)	Salinity (%)	TDS (mg/L)	Turbidity (NTU)
	11:10	431.2	12.3	7.50	600	0.3	288	61.7
	11:20	432.6	12.3	7.53	600	0.3	289	54.4
	11:30	434.0	12.3	7.52	599	0.3	287	56

ATTACHMENT B
ANALYTICAL LABORATORY RESULTS

Golder Associates

E:\05\2362\0100\TM-2005BEDRKHYDROGEOINV-PRELWQRES-011306\0532362 TM-011306.DOC

December 09, 2005

Golder Associates, Inc. - CO
Attn: Mr. Scott Miller
44 Union Blvd., Suite 300
Lakewood, CO 80228

Project: Eagle Groundwater

Dear Mr. Scott Miller,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

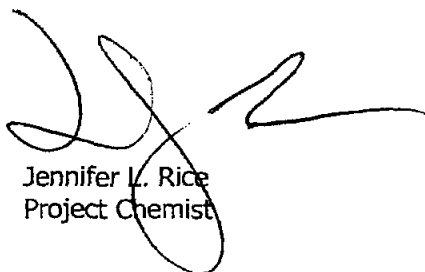
Work Order	Received	Description
0509300	09/20/2005	Laboratory Services
0509312	09/21/2005	Laboratory Services
0509374	09/24/2005	Laboratory Services
0509419	09/28/2005	Laboratory Services
0509453	09/30/2005	Laboratory Services
0509454	09/30/2005	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC); any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely



Jennifer L. Rice
Project Chemist

The total number of pages in this report, including this page, is 42.



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: **Eagle Groundwater**
Client Sample ID: **05EA-107-320-374.8**
Lab Sample ID: **0509300-01**
Matrix: **Water**

Work Order: **0509300**
Description: **Laboratory Services**
Sampled: **09/18/05 11:40**
Sampled By: **Michael Levon**
Received: **09/20/05 08:45**

Dissolved Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	09/29/05	KLV	0508916
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Arsenic	<2.0	2.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Barium	<20	20	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/03/05	DSC	0508915
Boron	4100	100	ug/L	1	USEPA-6010B	09/28/05	KLV	0508916
Cadmium	<0.50	0.50	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Calcium	3.1	0.50	mg/L	1	USEPA-6010B	09/28/05	KLV	0508916
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Cobalt	<10	10	ug/L	1	USEPA-6010B	09/28/05	KLV	0508916
Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Iron	79	20	ug/L	1	USEPA-6010B	09/28/05	KLV	0508916
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Lithium	16	8.0	ug/L	1	USEPA-6010B	09/28/05	KLV	0508916
Magnesium	0.98	0.50	mg/L	1	USEPA-6010B	09/28/05	KLV	0508916
Manganese	<20	20	ug/L	1	USEPA-6010B	09/28/05	KLV	0508916
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Nickel	<25	25	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Selenium	<1.0	1.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Silver	<0.20	0.20	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Sodium	80	10	mg/L	20	USEPA-6010B	09/29/05	KLV	0508916
Strontium	91	50	ug/L	1	USEPA-6010B	09/28/05	KLV	0508916
Zinc	12	10	ug/L	1	USEPA-6020	10/01/05	DSC	0508915
Potassium	1.7	0.50	mg/L	1	USEPA-6010B	09/28/05	KLV	0508916



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: **Eagle Groundwater**
Client Sample ID: **05EA-107-320-374.8**
Lab Sample ID: **0509300-01**
Matrix: **Water**

Work Order: **0509300**
Description: **Laboratory Services**
Sampled: **09/18/05 11:40**
Sampled By: **Michael Levon**
Received: **09/20/05 08:45**

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Alkalinity, Bicarbonate	70	2.0	mg/L	1	USEPA-310.1	09/23/05	VAS	0509016
Alkalinity, Carbonate	28	2.0	mg/L	1	USEPA-310.1	09/23/05	VAS	0509017
Alkalinity, Total	98	2.0	mg/L	1	USEPA-310.1	09/23/05	VAS	0509015
Chloride	97.3	1.00	mg/L	1	USEPA-325.2	09/28/05	JLB	0509156
Fluoride	0.85	0.10	mg/L	1	APHA 4500-F C	09/29/05	VAS	0509205
Nitrogen, Ammonia	0.093	0.020	mg/L	1	USEPA-350.1	09/27/05	GEH	0509143
* Nitrogen, Nitrate	<0.050	0.050	mg/L	1	USEPA-353.2	09/20/05	HLB	0509333
Phosphorus, Total	0.0330	0.0100	mg/L	1	USEPA-365.1	09/22/05	INR	0508996
Residue, Dissolved @ 180° C	278	50	mg/L	20	USEPA-160.1	09/22/05	GEH	0509024
Sulfate	<5.0	5.0	mg/L	1	USEPA-375.4	09/28/05	JLB	0509157
Sulfide	<1.0	1.0	mg/L	1	USEPA-376.1	09/20/05	JSS	0509192

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **05EA-107-60-114.8**
Lab Sample ID: **0509312-01**
Matrix: Water

Work Order: **0509312**
Description: Laboratory Services
Sampled: 09/20/05 09:15
Sampled By: Michael Levon
Received: 09/21/05 08:45

Dissolved Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	09/28/05	KLV	0508946
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Arsenic	<2.0	2.0	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Barium	<20	20	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/01/05	DSC	0508945
Boron	940	100	ug/L	1	USEPA-6010B	09/29/05	KLV	0508946
Cadmium	<0.50	0.50	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Calcium	5.9	0.50	mg/L	1	USEPA-6010B	09/28/05	KLV	0508946
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Cobalt	<10	10	ug/L	1	USEPA-6010B	09/28/05	KLV	0508946
Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/06/05	DSC	0509407
Iron	88	20	ug/L	1	USEPA-6010B	09/28/05	KLV	0508946
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Lithium	13	8.0	ug/L	1	USEPA-6010B	09/28/05	KLV	0508946
Magnesium	2.4	0.50	mg/L	1	USEPA-6010B	09/28/05	KLV	0508946
Manganese	22	20	ug/L	1	USEPA-6010B	09/28/05	KLV	0508946
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Nickel	<25	25	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Selenium	<1.0	1.0	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Silver	<0.20	0.20	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Sodium	21	2.5	mg/L	5	USEPA-6010B	09/29/05	KLV	0508946
Strontium	170	50	ug/L	1	USEPA-6010B	09/29/05	KLV	0508946
* Zinc	<10	10	ug/L	1	USEPA-6020	10/01/05	JMF	0508945
Potassium	2.9	0.50	mg/L	1	USEPA-6010B	09/28/05	KLV	0508946

*See Statement of Data Qualifications



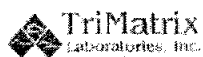
ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **05EA-107-60-114.8**
Lab Sample ID: **0509312-01**
Matrix: Water

Work Order: **0509312**
Description: Laboratory Services
Sampled: 09/20/05 09:15
Sampled By: Michael Levon
Received: 09/21/05 08:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Alkalinity, Bicarbonate	39	2.0	mg/L	1	USEPA-310.1	09/23/05	VAS	0509016
Alkalinity, Carbonate	<2.0	2.0	mg/L	1	USEPA-310.1	09/23/05	VAS	0509017
Alkalinity, Total	83	2.0	mg/L	1	USEPA-310.1	09/28/05	VAS	0509150
Chloride	1.15	1.00	mg/L	1	USEPA-325.2	09/28/05	JLB	0509156
Fluoride	0.53	0.10	mg/L	1	APHA 4500-F C	09/29/05	VAS	0509205
Nitrogen, Ammonia	0.076	0.020	mg/L	1	USEPA-350.1	09/27/05	GEH	0509143
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	USEPA-353.2	09/21/05	HLB	0509071
Phosphorus, Total	<0.0100	0.0100	mg/L	1	USEPA-365.1	09/22/05	INR	0508996
Residue, Dissolved @ 180° C	76	50	mg/L	20	USEPA-160.1	09/22/05	GEH	0509024
Sulfate	<5.0	5.0	mg/L	1	USEPA-375.4	09/28/05	JLB	0509157
Sulfide	<1.0	1.0	mg/L	1	USEPA-376.1	09/26/05	JSS	0509311



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: **Eagle Groundwater**
Client Sample ID: **04EA-084**
Lab Sample ID: **0509374-01**
Matrix: **Water**

Work Order: **0509374**
Description: **Laboratory Services**
Sampled: **09/23/05 11:50**
Sampled By: **Michael Levon**
Received: **09/24/05 08:40**

Dissolved Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	10/07/05	KLV	0509108
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
* Arsenic	23	2.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
* Barium	24	20	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Boron	5800	100	ug/L	1	USEPA-6010B	10/07/05	KLV	0509108
* Cadmium	<5.0	5.0	ug/L	10	USEPA-6020	10/13/05	JMF	0509107
Calcium	83	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509108
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Cobalt	<10	10	ug/L	1	USEPA-6010B	10/07/05	KLV	0509108
* Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Iron	2200	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509108
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Lithium	140	8.0	ug/L	1	USEPA-6010B	10/07/05	KLV	0509108
Magnesium	67	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509108
Manganese	83	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509108
* Molybdenum	<10	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
* Nickel	<25	25	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
* Selenium	21	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Silver	<0.20	0.20	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Sodium	1100	100	mg/L	200	USEPA-6010B	10/07/05	KLV	0509108
Strontium	5300	1200	ug/L	25	USEPA-6010B	10/07/05	KLV	0509108
* Zinc	18	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509107
Potassium	9.2	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509108

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **04EA-084**
Lab Sample ID: **0509374-01**
Matrix: Water

Work Order: **0509374**
Description: Laboratory Services
Sampled: 09/23/05 11:50
Sampled By: Michael Levon
Received: 09/24/05 08:40

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
* Aluminum	<50	50	ug/L	1	USEPA-6010B	10/13/05	DSC	0509149
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
Arsenic	3.7	2.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
Barium	23	20	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/13/05	JMF	0509101
* Boron	5700	100	ug/L	1	USEPA-6010B	10/14/05	JLT	0509149
* Cadmium	<5.0	5.0	ug/L	10	USEPA-6020	10/13/05	JMF	0509101
* Calcium	79	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509149
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
* Cobalt	<10	10	ug/L	1	USEPA-6010B	10/13/05	DSC	0509149
* Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
* Iron	2500	20	ug/L	1	USEPA-6010B	10/13/05	DSC	0509149
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
* Lithium	130	8.0	ug/L	1	USEPA-6010B	10/13/05	DSC	0509149
* Magnesium	66	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509149
Manganese	81	20	ug/L	1	USEPA-6010B	10/13/05	DSC	0509149
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
Nickel	<25	25	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
Potassium	8.8	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509149
* Selenium	<1.0	1.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
Silver	<0.20	0.20	ug/L	1	USEPA-6020	10/08/05	JMF	0509101
* Sodium	1000	50	mg/L	100	USEPA-6010B	10/13/05	ICP	0509149
* Strontium	4700	500	ug/L	10	USEPA-6010B	10/14/05	JLT	0509149
Zinc	26	10	ug/L	1	USEPA-6020	10/08/05	JMF	0509101

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: **Eagle Groundwater**
Client Sample ID: **04EA-084**
Lab Sample ID: **0509374-01**
Matrix: **Water**

Work Order: **0509374**
Description: **Laboratory Services**
Sampled: **09/23/05 11:50**
Sampled By: **Michael Levon**
Received: **09/24/05 08:40**

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Alkalinity, Bicarbonate	36	2.0	mg/L	1	USEPA-310.1	09/28/05	VAS	0509153
Alkalinity, Carbonate	<1.0	1.0	mg/L	1	USEPA-310.1	09/28/05	VAS	0509154
Alkalinity, Total	34	2.0	mg/L	1	USEPA-310.1	09/28/05	VAS	0509150
Chloride	1980	40.0	mg/L	40	USEPA-325.2	10/03/05	JLB	0509266
Fluoride	0.95	0.10	mg/L	1	APHA 4500-F C	09/29/05	VAS	0509205
Nitrogen, Ammonia	0.29	0.020	mg/L	1	USEPA-350.1	09/29/05	GEH	0509243
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	USEPA-353.2	09/24/05	HLB	0509577
Phosphorus, Total	<0.0100	0.0100	mg/L	1	USEPA-365.1	10/03/05	INR	0508996
Residue, Dissolved @ 180° C	3990	50	mg/L	20	USEPA-160.1	09/27/05	GEH	0509144
Sulfate	<5.0	5.0	mg/L	1	USEPA-375.4	10/03/05	JLB	0509268
Sulfide	<1.0	1.0	mg/L	1	USEPA-376.1	09/26/05	JSS	0509311



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **04EA-084-11000**
Lab Sample ID: **0509419-01**
Matrix: Water

Work Order: **0509419**
Description: Laboratory Services
Sampled: 09/26/05 10:00
Sampled By: Michael Lemon
Received: 09/28/05 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Alkalinity, Bicarbonate	37	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509420
Alkalinity, Carbonate	<2.0	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509422
Alkalinity, Total	37	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509423
Chloride	2040	40.0	mg/L	40	USEPA-325.2	10/03/05	JLB	0509266
Fluoride	0.99	0.10	mg/L	1	APHA 4500-F C	10/07/05	MSM	0509483
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	USEPA-353.2	09/28/05	HLB	0509733
Residue, Dissolved @ 180° C	3980	50	mg/L	20	USEPA-160.1	10/03/05	GEH	0509339
Sulfate	<5.0	5.0	mg/L	1	USEPA-375.4	10/03/05	JLB	0509268



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **Blind Dup.**
Lab Sample ID: **0509453-01**
Matrix: Water

Work Order: **0509453**
Description: Laboratory Services
Sampled: 09/29/05 00:00
Sampled By: Michael Lemon
Received: 09/30/05 08:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Alkalinity, Bicarbonate	38	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509420
Alkalinity, Carbonate	<2.0	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509422
Alkalinity, Total	38	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509423
Chloride	2020	20.0	mg/L	20	USEPA-325.2	10/11/05	JLB	0509573
Fluoride	0.99	0.10	mg/L	1	APHA 4500-F C	10/07/05	MSM	0509483
Nitrogen, Ammonia	0.27	0.020	mg/L	1	USEPA-350.1	10/04/05	GEH	0509359
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	USEPA-353.2	09/30/05	HLB	0509743
Phosphorus, Total	0.0136	0.0100	mg/L	1	USEPA-365.1	10/05/05	INR	0509273
Residue, Dissolved @ 180° C	3690	50	mg/L	20	USEPA-160.1	10/03/05	GEH	0509339
Sulfate	<5.0	5.0	mg/L	1	USEPA-375.4	10/03/05	JLB	0509268
Sulfide	<1.0	1.0	mg/L	1	USEPA-376.1	10/03/05	JSS	0509728



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **Blind Dup.-F**
Lab Sample ID: **0509453-02**
Matrix: Water

Work Order: **0509453**
Description: Laboratory Services
Sampled: 09/29/05 00:00
Sampled By: Michael Lemon
Received: 09/30/05 08:45

Dissolved Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Arsenic	23	2.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Barium	<20	20	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Boron	5800	100	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
* Cadmium	<5.0	5.0	ug/L	10	USEPA-6020	10/13/05	JMF	0509313
Calcium	75	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Cobalt	<10	10	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
* Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Iron	1600	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Lithium	140	8.0	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Magnesium	61	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Manganese	67	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Nickel	<25	25	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
* Selenium	21	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Silver	1.1	0.20	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Sodium	960	100	mg/L	200	USEPA-6010B	10/07/05	KLV	0509314
Strontium	4700	1200	ug/L	25	USEPA-6010B	10/07/05	KLV	0509314
Zinc	19	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Potassium	9.3	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: **Eagle Groundwater**
Client Sample ID: **Blind Dup. U**
Lab Sample ID: **0509453-03**
Matrix: **Water**

Work Order: **0509453**
Description: **Laboratory Services**
Sampled: **09/29/05 00:00**
Sampled By: **Michael Lemon**
Received: **09/30/05 08:45**

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	67	50	ug/L	1	USEPA-6010B	10/17/05	KLV	0509325
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Arsenic	18	10	ug/L	5	USEPA-6020	10/08/05	JMF	0509326
Barium	<100	100	ug/L	5	USEPA-6020	10/08/05	JMF	0509326
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509326
Boron	5600	100	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
* Cadmium	<5.0	5.0	ug/L	10	USEPA-6020	10/13/05	JMF	0509326
Calcium	81	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509325
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Cobalt	<10	10	ug/L	1	USEPA-6010B	10/17/05	KLV	0509325
* Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Iron	2900	20	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Lithium	130	8.0	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
Magnesium	65	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509325
Manganese	73	20	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Nickel	<25	25	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Potassium	9.0	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509325
Selenium	7.7	1.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Silver	<1.0	1.0	ug/L	5	USEPA-6020	10/08/05	JMF	0509326
Sodium	1200	5.0	mg/L	10	USEPA-6010B	10/14/05	JLT	0509325
Strontium	5100	500	ug/L	10	USEPA-6010B	10/14/05	JLT	0509325
Zinc	40	10	ug/L	1	USEPA-6020	10/08/05	JMF	0509326

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **Field Blank-F**
Lab Sample ID: **0509453-04**
Matrix: Water

Work Order: **0509453**
Description: Laboratory Services
Sampled: 09/29/05 08:00
Sampled By: Michael Lemon
Received: 09/30/05 08:45

Dissolved Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Arsenic	<2.0	2.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Barium	<20	20	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Boron	110	100	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Cadmium	<0.50	0.50	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Calcium	<0.50	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Cobalt	<10	10	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Iron	<20	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Lithium	<8.0	8.0	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Magnesium	<0.50	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Manganese	<20	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Nickel	<25	25	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
* Selenium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Silver	1.3	0.20	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Sodium	0.77	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Strontium	<50	50	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Zinc	<10	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Potassium	<0.50	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **04EA-084-817-981-2**
Lab Sample ID: **0509454-01**
Matrix: Water

Work Order: **0509454**
Description: Laboratory Services
Sampled: 09/29/05 08:00
Sampled By: Michael Lemon
Received: 09/30/05 08:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Alkalinity, Bicarbonate	37	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509420
Alkalinity, Carbonate	2.9	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509422
Alkalinity, Total	40	2.0	mg/L	1	USEPA-310.1	10/06/05	INR	0509423
Chloride	2010	20.0	mg/L	20	USEPA-325.2	10/11/05	JLB	0509573
Fluoride	1.0	0.10	mg/L	1	APHA 4500-F C	10/07/05	MSM	0509483
Nitrogen, Ammonia	0.26	0.020	mg/L	1	USEPA-350.1	10/04/05	GEH	0509359
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	USEPA-353.2	09/30/05	HLB	0509743
Phosphorus, Total	0.0148	0.0100	mg/L	1	USEPA-365.1	10/05/05	INR	0509273
Residue, Dissolved @ 180° C	3560	50	mg/L	20	USEPA-160.1	10/03/05	GEH	0509339
Sulfate	<5.0	5.0	mg/L	1	USEPA-375.4	10/03/05	JLB	0509268
Sulfide	<1.0	1.0	mg/L	1	USEPA-376.1	10/03/05	JSS	0509728



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: **Eagle Groundwater**
Client Sample ID: **04-EA-084-817-981-2F**
Lab Sample ID: **0509454-02**
Matrix: **Water**

Work Order: **0509454**
Description: **Laboratory Services**
Sampled: **09/29/05 08:00**
Sampled By: **RE/AM**
Received: **09/30/05 08:45**

Dissolved Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Arsenic	19	2.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Barium	<20	20	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Boron	5900	100	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
* Cadmium	<5.0	5.0	ug/L	10	USEPA-6020	10/13/05	JMF	0509313
Calcium	76	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Cobalt	<10	10	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
* Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Iron	1800	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Lithium	130	8.0	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Magnesium	61	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314
Manganese	68	20	ug/L	1	USEPA-6010B	10/07/05	KLV	0509314
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Nickel	<25	25	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
* Selenium	17	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Silver	0.46	0.20	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Sodium	970	100	mg/L	200	USEPA-6010B	10/07/05	KLV	0509314
Strontium	4800	1200	ug/L	25	USEPA-6010B	10/07/05	KLV	0509314
Zinc	19	10	ug/L	1	USEPA-6020	10/11/05	JMF	0509313
Potassium	9.2	0.50	mg/L	1	USEPA-6010B	10/07/05	KLV	0509314

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **Golder Associates, Inc. - CO**
Project: Eagle Groundwater
Client Sample ID: **04EA-084-817-2U**
Lab Sample ID: **0509454-03**
Matrix: Water

Work Order: **0509454**
Description: Laboratory Services
Sampled: 09/29/05 08:00
Sampled By: RE/AM
Received: 09/30/05 08:45

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Aluminum	<50	50	ug/L	1	USEPA-6010B	10/17/05	KLV	0509325
Antimony	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Arsenic	18	10	ug/L	5	USEPA-6020	10/08/05	JMF	0509326
Barium	<100	100	ug/L	5	USEPA-6020	10/08/05	JMF	0509326
Beryllium	<1.0	1.0	ug/L	1	USEPA-6020	10/11/05	JMF	0509326
Boron	5000	100	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
* Cadmium	<5.0	5.0	ug/L	10	USEPA-6020	10/13/05	JMF	0509326
Calcium	72	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509325
Chromium	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Cobalt	<10	10	ug/L	1	USEPA-6010B	10/17/05	KLV	0509325
* Copper	<5.0	5.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Iron	2600	20	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
Lead	<1.0	1.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Lithium	120	8.0	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
Magnesium	61	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509325
Manganese	68	20	ug/L	1	USEPA-6010B	10/13/05	DSC	0509325
Molybdenum	<10	10	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Nickel	<25	25	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Potassium	8.5	0.50	mg/L	1	USEPA-6010B	10/13/05	DSC	0509325
* Selenium	3.6	1.0	ug/L	1	USEPA-6020	10/08/05	JMF	0509326
Silver	<1.0	1.0	ug/L	5	USEPA-6020	10/08/05	JMF	0509326
Sodium	1200	5.0	mg/L	10	USEPA-6010B	10/14/05	JLT	0509325
Strontium	4700	500	ug/L	10	USEPA-6010B	10/14/05	JLT	0509325
Zinc	39	10	ug/L	1	USEPA-6020	10/08/05	JMF	0509326

*See Statement of Data Qualifications



QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Aluminum/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Laboratory Control Sample	1250	1210	ug/L	97	86-120	100
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QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<100	ug/L			100
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Laboratory Control Sample	1250	1140	ug/L	91	86-120	100
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QC Batch: 0508916 (3010A Digestion) Analyzed: 09/29/2005 By: KLV

Method Blank		<50	ug/L			50
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Laboratory Control Sample	1250	1150	ug/L	92	86-120	50
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Analyte: Antimony/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank		<5.0	ug/L			5.0
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QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Method Blank		<5.0	ug/L			5.0
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Laboratory Control Sample	100	89.0	ug/L	89	83-129	5.0
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QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	43.1	ug/L	108	83-129	1.0
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QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	43.1	ug/L	108	83-129	1.0
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Analyte: Arsenic/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank		<2.0	ug/L			2.0
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Arsenic/USEPA-6020 (Continued)

QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Method Blank			<2.0	ug/L				2.0	
Laboratory Control Sample		100	95.6	ug/L	96	83-111		2.0	

QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank			<1.0	ug/L				1.0	
Laboratory Control Sample		40.0	40.3	ug/L	101	83-111		1.0	

QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank			<1.0	ug/L				1.0	
Laboratory Control Sample		40.0	40.3	ug/L	101	83-111		1.0	

Analyte: Barium/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank			<20	ug/L				20	
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QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Method Blank			<5.0	ug/L				5.0	
Laboratory Control Sample		100	96.0	ug/L	96	86-119		5.0	

QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank			<1.0	ug/L				1.0	
Laboratory Control Sample		40.0	42.4	ug/L	106	86-119		1.0	

QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank			<1.0	ug/L				1.0	
Laboratory Control Sample		40.0	42.4	ug/L	106	86-119		1.0	

Analyte: Beryllium/USEPA-6020

QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank			<1.0	ug/L				1.0	
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Beryllium/USEPA-6020 (Continued)

QC Batch: 0508945 (Continued) (3010A Digestion)

Analyzed: 10/01/2005 By: DSC

Laboratory Control Sample	100	95.7	ug/L	96	81-116	1.0
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QC Batch: 0508915 (3010A Digestion)

Analyzed: 10/03/2011 By: DSC

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	100	99.2	ug/L	99	81-116	1.0
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QC Batch: 0509107 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	43.5	ug/L	109	81-116	1.0
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QC Batch: 0509313 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	43.5	ug/L	109	81-116	1.0
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Analyte: Boron/USEPA-6010B

QC Batch: 0508916 (3010A Digestion)

Analyzed: 09/28/2005 By: KLV

Method Blank		<100	ug/L			100
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Laboratory Control Sample	250	267	ug/L	107	78-122	100
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QC Batch: 0508946 (3010A Digestion)

Analyzed: 09/29/2005 By: KLV

Method Blank		<100	ug/L			100
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Laboratory Control Sample	250	262	ug/L	105	78-122	100
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Analyte: Cadmium/USEPA-6020

QC Batch: 0508915 (3010A Digestion)

Analyzed: 10/01/2005 By: DSC

Method Blank		<0.50	ug/L			0.50
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QC Batch: 0508945 (3010A Digestion)

Analyzed: 10/01/2005 By: JMF

Method Blank		<0.50	ug/L			0.50
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Cadmium/USEPA-6020 (Continued)

QC Batch: 0508945 (Continued) (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Laboratory Control Sample	100	97.0	ug/L	97	83-112	0.50
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QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<0.20	ug/L			0.20
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Laboratory Control Sample	40.0	39.0	ug/L	98	83-112	0.20
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QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<0.20	ug/L			0.20
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Laboratory Control Sample	40.0	39.0	ug/L	98	83-112	0.20
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Analyte: Calcium/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<1.0	mg/L			1.0
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Laboratory Control Sample	12.5	12.9	mg/L	103	88-121	1.0
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QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<1.0	mg/L			1.0
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Laboratory Control Sample	12.5	12.6	mg/L	101	88-121	1.0
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Analyte: Chromium/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank		<5.0	ug/L			5.0
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QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Method Blank		<5.0	ug/L			5.0
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Laboratory Control Sample	100	110	ug/L	110	84-122	5.0
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QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Chromium/USEPA-6020 (Continued)

QC Batch: 0509107 (Continued) (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Laboratory Control Sample	40.0	41.1	ug/L	103	84-122	1.0
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QC Batch: 0509313 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
Laboratory Control Sample	40.0	41.1	ug/L	103	84-122	1.0

Analyte: Cobalt/USEPA-6010B

QC Batch: 0508916 (3010A Digestion)

Analyzed: 09/28/2005 By: KLV

Method Blank		<15	ug/L			15
Laboratory Control Sample	250	253	ug/L	101	84-117	15

QC Batch: 0508946 (3010A Digestion)

Analyzed: 09/28/2005 By: KLV

Method Blank		<15	ug/L			15
Laboratory Control Sample	250	240	ug/L	96	84-117	15

Analyte: Copper/USEPA-6020

QC Batch: 0508915 (3010A Digestion)

Analyzed: 10/01/2005 By: DSC

Method Blank		<5.0	ug/L			5.0
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QC Batch: 0509407 (General Metals Prep)

Analyzed: 10/06/2005 By: DSC

Method Blank		<5.0	ug/L			5.0
Laboratory Control Sample	100	90.0	ug/L	90	86-123	5.0

QC Batch: 0509107 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
Laboratory Control Sample	40.0	40.0	ug/L	100	86-123	1.0

QC Batch: 0509313 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Copper/USEPA-6020 (Continued)

QC Batch: 0509313 (Continued) (General Metals Prep) Analyzed: 10/11/2005 By: JMF
Laboratory Control Sample 40.0 **40.0** ug/L 100 86-123 1.0

Analyte: Iron/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV
Method Blank <20 ug/L 20
Laboratory Control Sample 250 **257** ug/L 103 83-118 20

QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV
Method Blank <20 ug/L 20
Laboratory Control Sample 250 **238** ug/L 95 83-118 20

Analyte: Lead/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC
Method Blank <1.0 ug/L 1.0

QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF
Method Blank <1.0 ug/L 1.0
Laboratory Control Sample 100 **100** ug/L 100 87-118 1.0

QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF
Method Blank <1.0 ug/L 1.0
Laboratory Control Sample 40.0 **42.3** ug/L 106 87-118 1.0

QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF
Method Blank <1.0 ug/L 1.0
Laboratory Control Sample 40.0 **42.3** ug/L 106 87-118 1.0

Analyte: Lithium/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV
Method Blank <10 ug/L 10

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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Lithium/USEPA-6010B (Continued)

QC Batch: 0508916 (Continued) (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Laboratory Control Sample	250	258	ug/L	103	86-115		10
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QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<10	ug/L				10
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Laboratory Control Sample	250	252	ug/L	101	86-115		10
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Analyte: Magnesium/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<1.0	mg/L				1.0
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Laboratory Control Sample	12.5	12.8	mg/L	102	87-115		1.0
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QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<1.0	mg/L				1.0
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Laboratory Control Sample	12.5	12.6	mg/L	101	87-115		1.0
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Analyte: Manganese/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<20	ug/L				20
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Laboratory Control Sample	250	252	ug/L	101	83-118		20
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QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<20	ug/L				20
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Laboratory Control Sample	250	247	ug/L	99	83-118		20
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Analyte: Molybdenum/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank		<10	ug/L				10
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QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Method Blank		<10	ug/L				10
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Molybdenum/USEPA-6020 (Continued)

QC Batch: 0508945 (Continued) (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Laboratory Control Sample	100	94.7	ug/L	95	88-114	10
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QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	41.7	ug/L	104	88-114	1.0
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QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	41.7	ug/L	104	88-114	1.0
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Analyte: Nickel/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank		<25	ug/L			25
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QC Batch: 0508945 (3010A Digestion) Analyzed: 10/01/2005 By: JMF

Method Blank		<25	ug/L			25
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Laboratory Control Sample	100	109	ug/L	109	84-117	25
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QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	39.6	ug/L	99	84-117	1.0
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QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
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Laboratory Control Sample	40.0	39.6	ug/L	99	84-117	1.0
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Analyte: Potassium/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank		<0.50	mg/L			0.50
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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Potassium/USEPA-6010B (Continued)

QC Batch: 0508916 (Continued) (3010A Digestion)

Analyzed: 09/28/2005 By: KLV

Laboratory Control Sample	12.5	13.4	mg/L	107	87-125	0.50
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QC Batch: 0508946 (3010A Digestion)

Analyzed: 09/28/2005 By: KLV

Method Blank		<0.50	mg/L			0.50
Laboratory Control Sample	12.5	13.5	mg/L	108	87-125	0.50

Analyte: Selenium/USEPA-6020

QC Batch: 0508915 (3010A Digestion)

Analyzed: 10/01/2005 By: DSC

Method Blank		<1.0	ug/L			1.0
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QC Batch: 0508945 (3010A Digestion)

Analyzed: 10/01/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
Laboratory Control Sample	100	88.5	ug/L	88	75-110	1.0

QC Batch: 0509107 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
Laboratory Control Sample	40.0	40.2	ug/L	100	75-110	1.0

QC Batch: 0509313 (General Metals Prep)

Analyzed: 10/11/2005 By: JMF

Method Blank		<1.0	ug/L			1.0
Laboratory Control Sample	40.0	40.2	ug/L	100	75-110	1.0

Analyte: Silver/USEPA-6020

QC Batch: 0508915 (3010A Digestion)

Analyzed: 10/01/2005 By: DSC

Method Blank		<0.20	ug/L			0.20
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QC Batch: 0508945 (3010A Digestion)

Analyzed: 10/01/2005 By: JMF

Method Blank		<0.20	ug/L			0.20
Laboratory Control Sample	100	101	ug/L	101	86-114	0.20

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QUALITY CONTROL REPORT

Dissolved Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Silver/USEPA-6020 (Continued)

QC Batch: 0509107 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank			<0.20	ug/L				0.20	
Laboratory Control Sample		40.0	42.5	ug/L	106	84-117		0.20	

QC Batch: 0509313 (General Metals Prep) Analyzed: 10/11/2005 By: JMF

Method Blank			<0.20	ug/L				0.20	
Laboratory Control Sample		40.0	42.5	ug/L	106	84-117		0.20	

Analyte: Sodium/USEPA-6010B

QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank			<1.0	mg/L				1.0	
Laboratory Control Sample		12.5	11.8	mg/L	94	86-117		2.0	

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/29/2005 By: KLV

Method Blank			<1.0	mg/L				1.0	
Laboratory Control Sample		12.5	12.5	mg/L	100	86-117		1.0	

Analyte: Strontium/USEPA-6010B

QC Batch: 0508916 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank			<50	ug/L				50	
Laboratory Control Sample		250	264	ug/L	106	91-113		50	

QC Batch: 0508946 (3010A Digestion) Analyzed: 09/28/2005 By: KLV

Method Blank			<50	ug/L				50	
Laboratory Control Sample		250	261	ug/L	104	91-113		50	

QC Batch: 0508946 (3010A Digestion) Analyzed: 09/29/2005 By: KLV

Method Blank			<50	ug/L				50	
Laboratory Control Sample		250	253	ug/L	101	91-113		50	

Analyte: Zinc/USEPA-6020

QC Batch: 0508915 (3010A Digestion) Analyzed: 10/01/2005 By: DSC

Method Blank			<10	ug/L				10	
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