

FINAL



SHEPLEY'S HILL LANDFILL SUPPLEMENTAL GROUNDWATER AND LANDFILL CAP ASSESSMENT FOR LONG-TERM MONITORING AND MAINTENANCE – ADDENDUM REPORT

SHEPLEY'S HILL LANDFILL

FORMER FORT DEVENS ARMY INSTALLATION, DEVENS, MA

AUGUST 2011

BOOK 3 OF 4

**Prepared for:
US Army Corp of Engineers
New England District
Concord, Massachusetts**

**Prepared by:
Sovereign Consulting Inc.
Contract No.: W912WJ-10-D-0003
Delivery Order: 0002**





ANALYTICAL REPORT

Lab Number: L1008426

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 06/24/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008426-01	GP-10-02-024-F	DEVENS, MA	06/07/10 09:50
L1008426-02	GP-10-02-034-F	DEVENS, MA	06/07/10 10:42
L1008426-03	GP-10-02-044-F	DEVENS, MA	06/07/10 11:35
L1008426-04	GP-10-02-054-F	DEVENS, MA	06/07/10 12:27
L1008426-05	GDUP-060710-F	DEVENS, MA	06/07/10 10:42
L1008426-06	RB-060710-F	DEVENS, MA	06/07/10 14:00
L1008426-07	GP-10-02-064-F	DEVENS, MA	06/07/10 13:08
L1008426-08	GP-10-02-074-F	DEVENS, MA	06/07/10 15:05

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The results for Dissolved Arsenic were issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

L1008426-02 through -05, -07 and -08 have elevated detection limits for all analytes due to the dilutions

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

Case Narrative (continued)

required by the high concentrations of target analytes.

The WG416714-3/-4 MS/MSD recoveries for Calcium (142%/132%) and Sodium (MS at 125%), performed on L1008426-01, are invalid because the sample concentration is greater than four times the spike amount added.

Chloride

L1008426-01 through -05, -07 and -08 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Alkalinity, Total

The WG417123-3 MS recovery (82%), performed on L1008426-01, is below the acceptance criteria. This has been attributed to matrix interference.

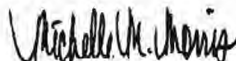
Sulfate

The WG418326-1 Method Blank, associated with L1008426-01 through -05, -07 and -08, has a concentration greater than one half the reporting limit for Sulfate. The results in samples L1008426-01 through -05, -07 and -08 are greater than 10x the blank concentration; therefore, no qualification of results was performed.

The WG418326-3/-4 MS/MSD RPD (22%), performed on L1008426-01, is above the acceptance criteria; however, the individual MS/MSD recoveries are within method limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/24/10

METALS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-01

Client ID: GP-10-02-024-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/07/10 09:50

Date Received: 06/07/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	90800		ug/l	100	12.6	1	06/08/10 10:15	06/09/10 09:05	EPA 3005A	1,6020A	BM
Iron, Dissolved	1130		ug/l	50.0	8.41	1	06/08/10 10:15	06/09/10 09:05	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	13100		ug/l	100	4.10	1	06/08/10 10:15	06/09/10 09:05	EPA 3005A	1,6020A	BM
Manganese, Dissolved	560		ug/l	1.00	0.136	1	06/08/10 10:15	06/09/10 09:05	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3760		ug/l	100	18.2	1	06/08/10 10:15	06/09/10 09:05	EPA 3005A	1,6020A	BM
Sodium, Dissolved	45400		ug/l	100	18.2	1	06/08/10 10:15	06/09/10 09:05	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-02

Date Collected: 06/07/10 10:42

Client ID: GP-10-02-034-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	105000		ug/l	200	25.3	2	06/08/10 10:15	06/09/10 09:29	EPA 3005A	1,6020A	BM
Iron, Dissolved	1560		ug/l	100	16.8	2	06/08/10 10:15	06/09/10 09:29	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	15500		ug/l	200	8.20	2	06/08/10 10:15	06/09/10 09:29	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1440		ug/l	2.00	0.272	2	06/08/10 10:15	06/09/10 09:29	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4320		ug/l	200	36.3	2	06/08/10 10:15	06/09/10 09:29	EPA 3005A	1,6020A	BM
Sodium, Dissolved	48800		ug/l	200	36.4	2	06/08/10 10:15	06/09/10 09:29	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-03

Date Collected: 06/07/10 11:35

Client ID: GP-10-02-044-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	113000		ug/l	200	25.3	2	06/08/10 10:15	06/09/10 09:35	EPA 3005A	1,6020A	BM
Iron, Dissolved	2140		ug/l	100	16.8	2	06/08/10 10:15	06/09/10 09:35	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	15900		ug/l	200	8.20	2	06/08/10 10:15	06/09/10 09:35	EPA 3005A	1,6020A	BM
Manganese, Dissolved	2060		ug/l	2.00	0.272	2	06/08/10 10:15	06/09/10 09:35	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4640		ug/l	200	36.3	2	06/08/10 10:15	06/09/10 09:35	EPA 3005A	1,6020A	BM
Sodium, Dissolved	58700		ug/l	200	36.4	2	06/08/10 10:15	06/09/10 09:35	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-04

Date Collected: 06/07/10 12:27

Client ID: GP-10-02-054-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	107000		ug/l	200	25.3	2	06/08/10 10:15	06/09/10 09:41	EPA 3005A	1,6020A	BM
Iron, Dissolved	2150		ug/l	100	16.8	2	06/08/10 10:15	06/09/10 09:41	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	14800		ug/l	200	8.20	2	06/08/10 10:15	06/09/10 09:41	EPA 3005A	1,6020A	BM
Manganese, Dissolved	2200		ug/l	2.00	0.272	2	06/08/10 10:15	06/09/10 09:41	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4170		ug/l	200	36.3	2	06/08/10 10:15	06/09/10 09:41	EPA 3005A	1,6020A	BM
Sodium, Dissolved	52900		ug/l	200	36.4	2	06/08/10 10:15	06/09/10 09:41	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-05
Client ID: GDUP-060710-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 10:42
Date Received: 06/07/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	102000		ug/l	200	25.3	2	06/08/10 10:15	06/09/10 09:47	EPA 3005A	1,6020A	BM
Iron, Dissolved	1520		ug/l	100	16.8	2	06/08/10 10:15	06/09/10 09:47	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	14800		ug/l	200	8.20	2	06/08/10 10:15	06/09/10 09:47	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1380		ug/l	2.00	0.272	2	06/08/10 10:15	06/09/10 09:47	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4060		ug/l	200	36.3	2	06/08/10 10:15	06/09/10 09:47	EPA 3005A	1,6020A	BM
Sodium, Dissolved	46300		ug/l	200	36.4	2	06/08/10 10:15	06/09/10 09:47	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-06

Date Collected: 06/07/10 14:00

Client ID: RB-060710-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	30.7	J	ug/l	100	12.6	1	06/08/10 10:15	06/09/10 10:05	EPA 3005A	1,6020A	BM
Iron, Dissolved	10.3	J	ug/l	50.0	8.41	1	06/08/10 10:15	06/09/10 10:05	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	20.6	J	ug/l	100	4.10	1	06/08/10 10:15	06/09/10 10:05	EPA 3005A	1,6020A	BM
Manganese, Dissolved	0.27	J	ug/l	1.00	0.136	1	06/08/10 10:15	06/09/10 10:05	EPA 3005A	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/08/10 10:15	06/09/10 10:05	EPA 3005A	1,6020A	BM
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/08/10 10:15	06/09/10 10:05	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-07
Client ID: GP-10-02-064-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 13:08
Date Received: 06/07/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	110000		ug/l	200	25.3	2	06/08/10 10:15	06/09/10 10:11	EPA 3005A	1,6020A	BM
Iron, Dissolved	3500		ug/l	100	16.8	2	06/08/10 10:15	06/09/10 10:11	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	15000		ug/l	200	8.20	2	06/08/10 10:15	06/09/10 10:11	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1990		ug/l	2.00	0.272	2	06/08/10 10:15	06/09/10 10:11	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4580		ug/l	200	36.3	2	06/08/10 10:15	06/09/10 10:11	EPA 3005A	1,6020A	BM
Sodium, Dissolved	83500		ug/l	200	36.4	2	06/08/10 10:15	06/09/10 10:11	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-08
Client ID: GP-10-02-074-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 15:05
Date Received: 06/07/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	252000		ug/l	400	50.6	4	06/08/10 10:15	06/09/10 10:17	EPA 3005A	1,6020A	BM
Iron, Dissolved	4010		ug/l	200	33.6	4	06/08/10 10:15	06/09/10 10:17	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	34300		ug/l	400	16.4	4	06/08/10 10:15	06/09/10 10:17	EPA 3005A	1,6020A	BM
Manganese, Dissolved	2910		ug/l	4.00	0.544	4	06/08/10 10:15	06/09/10 10:17	EPA 3005A	1,6020A	BM
Potassium, Dissolved	7680		ug/l	400	72.6	4	06/08/10 10:15	06/09/10 10:17	EPA 3005A	1,6020A	BM
Sodium, Dissolved	196000		ug/l	400	72.8	4	06/08/10 10:15	06/09/10 10:17	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-08 Batch: WG416714-1										
Calcium, Dissolved	36.1	J	ug/l	100	12.6	1	06/08/10 10:15	06/08/10 22:31	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/08/10 10:15	06/08/10 22:31	1,6020A	BM
Magnesium, Dissolved	22.4	J	ug/l	100	4.10	1	06/08/10 10:15	06/08/10 22:31	1,6020A	BM
Manganese, Dissolved	0.19	J	ug/l	1.00	0.136	1	06/08/10 10:15	06/08/10 22:31	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/08/10 10:15	06/08/10 22:31	1,6020A	BM
Sodium, Dissolved	18.4	J	ug/l	100	18.2	1	06/08/10 10:15	06/08/10 22:31	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG416714-2								
Calcium, Dissolved	100		-		80-120	-		
Iron, Dissolved	111		-		80-120	-		
Magnesium, Dissolved	101		-		80-120	-		
Manganese, Dissolved	102		-		80-120	-		
Potassium, Dissolved	100		-		80-120	-		
Sodium, Dissolved	108		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG416714-3 WG416714-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Calcium, Dissolved	90800	10000	105000	142		104000	132		80-120	7		20
Iron, Dissolved	1130	1000	2220	109		2200	107		80-120	2		20
Magnesium, Dissolved	13100	10000	23300	102		23400	103		80-120	1		20
Manganese, Dissolved	560	500	1100	108		1110	110		80-120	2		20
Potassium, Dissolved	3760	10000	13300	95		13300	95		80-120	0		20
Sodium, Dissolved	45400	10000	57900	125		57100	117		80-120	7		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-01
Client ID: GP-10-02-024-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 09:50
Date Received: 06/07/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	200		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.089		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:18	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:47	30,4500NO2-B	DD
Chemical Oxygen Demand	18	J	mg/l	20	7.0	1	-	06/10/10 04:51	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	140		mg/l	2.5	0.33	5	-	06/08/10 20:15	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 18:51	44,300.0	AU
Sulfate	23		mg/l	1.0	0.12	1	-	06/16/10 13:17	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-02

Date Collected: 06/07/10 10:42

Client ID: GP-10-02-034-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	190		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.109		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:20	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:48	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	-	06/10/10 04:51	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	150		mg/l	2.5	0.33	5	-	06/08/10 22:03	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 19:15	44,300.0	AU
Sulfate	28		mg/l	1.0	0.12	1	-	06/16/10 13:29	44,300.0	AU

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-03
Client ID: GP-10-02-044-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 11:35
Date Received: 06/07/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	200		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.293		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:21	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:48	30,4500NO2-B	DD
Chemical Oxygen Demand	13	J	mg/l	20	7.0	1	-	06/10/10 04:52	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	130		mg/l	2.5	0.33	5	-	06/08/10 22:15	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 19:27	44,300.0	AU
Sulfate	18		mg/l	1.0	0.12	1	-	06/16/10 13:41	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-04

Date Collected: 06/07/10 12:27

Client ID: GP-10-02-054-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	230		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.268		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:25	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:48	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	-	06/10/10 04:52	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	110		mg/l	2.5	0.33	5	-	06/08/10 22:27	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 19:39	44,300.0	AU
Sulfate	16		mg/l	1.0	0.12	1	-	06/16/10 13:53	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-05

Client ID: GDUP-060710-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/07/10 10:42

Date Received: 06/07/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	190		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.092		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:26	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:49	30,4500NO2-B	DD
Chemical Oxygen Demand	27		mg/l	20	7.0	1	-	06/10/10 04:52	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	150		mg/l	2.5	0.33	5	-	06/08/10 23:27	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 19:51	44,300.0	AU
Sulfate	29		mg/l	1.0	0.12	1	-	06/16/10 14:05	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-07

Date Collected: 06/07/10 13:08

Client ID: GP-10-02-064-F

Date Received: 06/07/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	270		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.196		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:26	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:49	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/l	20	7.0	1	-	06/10/10 04:53	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	160		mg/l	2.5	0.33	5	-	06/08/10 23:39	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 20:03	44,300.0	AU
Sulfate	23		mg/l	1.0	0.12	1	-	06/16/10 11:41	44,300.0	AU

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008426-08
Client ID: GP-10-02-074-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 15:05
Date Received: 06/07/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	140		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.178		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:27	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:49	30,4500NO2-B	DD
Chemical Oxygen Demand	29		mg/l	20	7.0	1	-	06/10/10 04:53	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	780		mg/l	25	3.3	50	-	06/09/10 01:03	44,300.0	AU
Nitrogen, Nitrate	0.026	J	mg/l	0.05	0.01	1	-	06/08/10 20:51	44,300.0	AU
Sulfate	31		mg/l	1.0	0.12	1	-	06/16/10 11:29	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05,07-08 Batch: WG416624-2										
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:46	30,4500NO2-B	DD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05,07-08 Batch: WG416864-1										
Chloride	ND		mg/l	0.50	0.07	1	-	06/08/10 18:15	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 18:15	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-05,07-08 Batch: WG417001-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:03	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-05,07-08 Batch: WG417053-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:50	44,410.4	BH
General Chemistry - Westborough Lab for sample(s): 01-05,07-08 Batch: WG417123-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05,07-08 Batch: WG418326-1										
Sulfate	0.71	J	mg/l	1.0	0.12	1	-	06/16/10 04:40	44,300.0	AU



Lab Control Sample Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 Batch: WG416624-1								
Nitrogen, Nitrite	100		-		90-110	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 Batch: WG416864-2								
Chloride	100		-		90-110	-		
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 Batch: WG417001-2								
Nitrogen, Ammonia	100		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 Batch: WG417053-2								
Chemical Oxygen Demand	98		-		95-105	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 Batch: WG417123-2								
Alkalinity, Total	103		-		80-115	-		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 Batch: WG418326-2								
Sulfate	100		-		90-110	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG416624-3 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Nitrogen, Nitrite	ND	0.1	0.10	100		-	-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG416864-3 WG416864-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Chloride	140	20	150	73		150	62		40-151	16		18
Nitrogen, Nitrate	ND	0.4	0.37	92		0.40	100		80-122	8		15
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG417001-3 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Nitrogen, Ammonia	0.089	4	3.90	95		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG417053-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Chemical Oxygen Demand	ND	238	250	104		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG417123-3 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Alkalinity, Total	200	100	280	82	Q	-	-		86-116	-		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG418326-3 WG418326-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F												
Sulfate	23	8	29	80		31	100		60-140	22	Q	20

Project Name: SHL TASK 0002
Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1008426
Report Date: 06/24/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG416624-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG416864-5 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Nitrogen, Nitrate	ND	ND	mg/l	NC		15
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG416864-5 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Chloride	140	130	mg/l	7		18
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG417001-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Nitrogen, Ammonia	0.089	0.0625J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG417053-3 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Chemical Oxygen Demand	18J	20	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG417123-4 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Alkalinity, Total	200	200	mg CaCO3/L	0		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05,07-08 QC Batch ID: WG418326-5 QC Sample: L1008426-01 Client ID: GP-10-02-024-F						
Sulfate	23	26	mg/l	12		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent
B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008426-01A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-01B	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-01C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-01D	Plastic 500ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-01E	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-01F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-01G	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-01H	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-01I	Plastic 500ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-01J	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-02A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-02B	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-02C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-02D	Plastic 500ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-02E	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-03A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426

Report Date: 06/24/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008426-03B	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-03C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-03D	Plastic 500ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-03E	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-04A	Plastic 500ml HNO3 preserved	B	<2	2.2	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-04B	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-04C	Plastic 500ml H2SO4 preserved	B	<2	2.2	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-04D	Plastic 500ml unpreserved	B	7	2.2	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-04E	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-05A	Plastic 500ml HNO3 preserved	B	<2	2.2	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-05B	Plastic 250ml unpreserved	B	7	2.2	Y	Absent	NO2-4500NO2(2)
L1008426-05C	Plastic 500ml H2SO4 preserved	B	<2	2.2	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-05D	Plastic 500ml unpreserved	B	7	2.2	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-05E	Plastic 250ml unpreserved	B	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1008426-06A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-07A	Plastic 500ml HNO3 preserved	B	<2	2.2	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-07B	Plastic 250ml unpreserved	B	7	2.2	Y	Absent	NO2-4500NO2(2)
L1008426-07C	Plastic 500ml H2SO4 preserved	B	<2	2.2	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-07D	Plastic 500ml unpreserved	B	7	2.2	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-07E	Plastic 250ml unpreserved	B	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1008426-08A	Plastic 500ml HNO3 preserved	B	<2	2.2	Y	Absent	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-K-6020S(180)
L1008426-08B	Plastic 250ml unpreserved	B	7	2.2	Y	Absent	NO2-4500NO2(2)
L1008426-08C	Plastic 500ml H2SO4 preserved	B	<2	2.2	Y	Absent	COD-410(28),NH3-4500(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1008426**Report Date:** 06/24/10**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008426-08D	Plastic 500ml unpreserved	B	7	2.2	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-08E	Plastic 250ml unpreserved	B	N/A	2.2	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	Spectra identified as "Alcohol Condensation Product".
B	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	The RPD between the results for the two columns exceeds the method-specified criteria.
Q	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	Analytical results are from sample re-analysis.
RE	Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1008426

Project Number: AC001

Report Date: 06/24/10

Data Qualifiers

- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008426
Report Date: 06/24/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1 **Organic Parameters:** 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.**

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 6/7/10

ALPHA Job #: 1008426

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program

Criteria: SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	SAMPLE HANDLING										TOTAL # BOTTLES
	Filtration_____										
	<input checked="" type="checkbox"/> Done										
	<input type="checkbox"/> Not needed										
	<input type="checkbox"/> Lab to do										
	Preservation										
	<input type="checkbox"/> Lab to do										
	(Please specify below)										
	Sample Specific Comments										

ANALYSIS	Metals by 6000A
	Cl, SO ₄ , NO ₃ by 3000
	Alkalinity
	NH ₄ (or)
	NO ₃ by SAN500-NO28

Metals by 600A
Cl, SO₄, NO₃ by 3000
Alkalinity
NH₄ (or)
NO₃ by 8000-NO₃B

Client Information

Client: Sovereign Consulting Inc
Address: 905B South Main St
Mansfield MA 02048

Phone: 508-339-3206

Fax: 508-339-3248

Email: pmcain@svcon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG#11 - Closed

Metals = As, Fe, Mn, Mg, Ca, Na, K

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											(Please specify below)	
		Date	Time													Sample Specific Comments	
8426.1	GP-10-02-024-F	6/7/10	0950	GW	PJV	✓	✓	✓	✓	✓							MS/MSD
2	GP-10-02-034-F	6/7/10	1042	GW	PJV	✓	✓	✓	✓	✓							
3	GP-10-02-044-F	6/7/10	1135	GW	PJV	✓	✓	✓	✓	✓							
4	GP-10-02-054-F	6/7/10	1227	GW	PJV	✓	✓	✓	✓	✓							
5	GDUP-060710-F	6/7/10	1342	GW	PJV	✓	✓	✓	✓	✓							
6	RB-060710-F	6/7/10	1400	GW	PJV	✓											
7	GP-10-02-064-F	6/7/10	1308	GW	PJV	✓	✓	✓	✓	✓							
8	GP-10-02-074-F	6/7/10	1505	GW	PJV	✓	✓	✓	✓	✓							

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P P P P P

Preservative C A A D A

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly, and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number: L1008513

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 06/26/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008513-01	GP-10-02-084-F	DEVENS, MA	06/07/10 18:12
L1008513-02	GP-10-02-094-F	DEVENS, MA	06/08/10 09:25
L1008513-03	GP-10-02-102-F	DEVENS, MA	06/08/10 10:10
L1008513-04	RB-060810-U	DEVENS, MA	06/08/10 10:30
L1008513-05	GP-10-04-014-F	DEVENS, MA	06/08/10 12:40
L1008513-06	GP-10-04-024-F	DEVENS, MA	06/08/10 14:00
L1008513-07	GP-10-04-034-F	DEVENS, MA	06/08/10 14:50
L1008513-08	GP-10-04-044-F	DEVENS, MA	06/08/10 15:10
L1008513-09	GDUP-060810-F	DEVENS, MA	06/08/10 14:00

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Dissolved Metals

L1008513-01 through -03 have elevated detection limit for all analytes due to the dilution required by the high concentrations of target analytes. The requested reporting limit for Arsenic was not achieved on L1008513-02.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

Case Narrative (continued)

Chloride

L1008513-01, -02 and -03 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG418933-4 MSD recovery (38%), performed on L1008513-05, is below the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

The WG418933-5 Laboratory Duplicate RPD (40%), performed on L1008513-05, is above the acceptance criteria.


Nitrate

L1008513-08 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

WG417902: The MS, MSD and Duplicate associated with this batch were analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/26/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-01

Date Collected: 06/07/10 18:12

Client ID: GP-10-02-084-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	4.64		ug/l	2.00	0.452	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM
Calcium, Dissolved	288000		ug/l	400	50.6	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM
Iron, Dissolved	19600		ug/l	200	33.6	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	38700		ug/l	400	16.4	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM
Manganese, Dissolved	2680		ug/l	4.00	0.544	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM
Potassium, Dissolved	10500		ug/l	400	72.6	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM
Sodium, Dissolved	236000		ug/l	400	72.8	4	06/09/10 09:45	06/10/10 22:46	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-02
 Client ID: GP-10-02-094-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/08/10 09:25
 Date Received: 06/08/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.61	J	ug/l	2.00	0.452	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM
Calcium, Dissolved	229000		ug/l	400	50.6	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM
Iron, Dissolved	4640		ug/l	200	33.6	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	29300		ug/l	400	16.4	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM
Manganese, Dissolved	3100		ug/l	4.00	0.544	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM
Potassium, Dissolved	8450		ug/l	400	72.6	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM
Sodium, Dissolved	302000		ug/l	400	72.8	4	06/09/10 09:45	06/10/10 22:52	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-03
Client ID: GP-10-02-102-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 10:10
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	8.68		ug/l	2.00	0.452	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM
Calcium, Dissolved	249000		ug/l	400	50.6	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM
Iron, Dissolved	25300		ug/l	200	33.6	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	34600		ug/l	400	16.4	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1270		ug/l	4.00	0.544	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM
Potassium, Dissolved	11100		ug/l	400	72.6	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM
Sodium, Dissolved	155000		ug/l	400	72.8	4	06/09/10 09:45	06/10/10 22:58	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-04

Date Collected: 06/08/10 10:30

Client ID: RB-060810-U

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM
Calcium, Dissolved	24.4	J	ug/l	100	12.6	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM
Iron, Dissolved	10.2	J	ug/l	50.0	8.41	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM
Manganese, Dissolved	0.25	J	ug/l	1.00	0.136	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:05	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-05
Client ID: GP-10-04-014-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 12:40
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.18	J	ug/l	0.500	0.113	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM
Calcium, Dissolved	2200		ug/l	100	12.6	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM
Iron, Dissolved	1170		ug/l	50.0	8.41	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	316		ug/l	100	4.10	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM
Manganese, Dissolved	210		ug/l	1.00	0.136	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM
Potassium, Dissolved	422		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM
Sodium, Dissolved	3460		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:17	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-06

Date Collected: 06/08/10 14:00

Client ID: GP-10-04-024-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.18	J	ug/l	0.500	0.113	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM
Calcium, Dissolved	2100		ug/l	100	12.6	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM
Iron, Dissolved	256		ug/l	50.0	8.41	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	218		ug/l	100	4.10	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM
Manganese, Dissolved	58.1		ug/l	1.00	0.136	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM
Potassium, Dissolved	716		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM
Sodium, Dissolved	3080		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:52	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-07
Client ID: GP-10-04-034-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 14:50
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.18	J	ug/l	0.500	0.113	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM
Calcium, Dissolved	3670		ug/l	100	12.6	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM
Iron, Dissolved	438		ug/l	50.0	8.41	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	533		ug/l	100	4.10	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM
Manganese, Dissolved	84.4		ug/l	1.00	0.136	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM
Potassium, Dissolved	859		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM
Sodium, Dissolved	4090		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 23:58	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-08

Date Collected: 06/08/10 15:10

Client ID: GP-10-04-044-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.15	J	ug/l	0.500	0.113	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM
Calcium, Dissolved	19000		ug/l	100	12.6	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM
Iron, Dissolved	629		ug/l	50.0	8.41	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2020		ug/l	100	4.10	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM
Manganese, Dissolved	86.6		ug/l	1.00	0.136	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1280		ug/l	100	18.2	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM
Sodium, Dissolved	15800		ug/l	100	18.2	1	06/09/10 09:45	06/11/10 00:04	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-09
Client ID: GDUP-060810-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 14:00
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.16	J	ug/l	0.500	0.113	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM
Calcium, Dissolved	2240		ug/l	100	12.6	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM
Iron, Dissolved	199		ug/l	50.0	8.41	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	218		ug/l	100	4.10	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM
Manganese, Dissolved	63.0		ug/l	1.00	0.136	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM
Potassium, Dissolved	619		ug/l	100	18.2	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM
Sodium, Dissolved	2920		ug/l	100	18.2	1	06/09/10 09:45	06/11/10 00:10	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-09 Batch: WG416998-1										
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM
Calcium, Dissolved	34.1	J	ug/l	100	12.6	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM
Iron, Dissolved	18.5	J	ug/l	50.0	8.41	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM
Manganese, Dissolved	0.34	J	ug/l	1.00	0.136	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 19:41	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008513

Report Date: 06/26/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-09 Batch: WG416998-2								
Arsenic, Dissolved	101		-		80-120	-		
Calcium, Dissolved	106		-		80-120	-		
Iron, Dissolved	109		-		80-120	-		
Magnesium, Dissolved	102		-		80-120	-		
Manganese, Dissolved	110		-		80-120	-		
Potassium, Dissolved	102		-		80-120	-		
Sodium, Dissolved	108		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008513

Report Date: 06/26/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG416998-3 WG416998-4 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Arsenic, Dissolved	ND	120	111	92		115	96		80-120	4		20
Calcium, Dissolved	2200	10000	11300	91		12300	101		80-120	10		20
Iron, Dissolved	1170	1000	2070	90		2200	103		80-120	13		20
Magnesium, Dissolved	316	10000	9180	89		9810	95		80-120	7		20
Manganese, Dissolved	210	500	698	98		754	109		80-120	11		20
Potassium, Dissolved	422	10000	9600	92		10200	98		80-120	6		20
Sodium, Dissolved	3460	10000	12900	94		13800	103		80-120	9		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-01

Date Collected: 06/07/10 18:12

Client ID: GP-10-02-084-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	170		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.080		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:07	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:28	30,4500NO2-B	DD
Chemical Oxygen Demand	31		mg/l	20	7.0	1	-	06/10/10 04:31	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	880		mg/l	50	6.5	100	-	06/09/10 14:15	44,300.0	ED
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/09/10 13:15	44,300.0	AU
Sulfate	32		mg/l	1.0	0.12	1	-	06/15/10 05:08	44,300.0	AU

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-02
Client ID: GP-10-02-094-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 09:25
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	150		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.081		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:08	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:29	30,4500NO2-B	DD
Chemical Oxygen Demand	38		mg/l	20	7.0	1	-	06/10/10 04:32	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	840		mg/l	50	6.5	100	-	06/09/10 14:27	44,300.0	ED
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/09/10 13:27	44,300.0	AU
Sulfate	34		mg/l	1.0	0.12	1	-	06/15/10 05:20	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-03

Date Collected: 06/08/10 10:10

Client ID: GP-10-02-102-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	210		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.077		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:08	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:29	30,4500NO2-B	DD
Chemical Oxygen Demand	40		mg/l	20	7.0	1	-	06/10/10 04:32	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	640		mg/l	25	3.3	50	-	06/09/10 16:05	44,300.0	ED
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/09/10 13:39	44,300.0	AU
Sulfate	30		mg/l	1.0	0.12	1	-	06/15/10 05:32	44,300.0	AU

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-05
Client ID: GP-10-04-014-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 12:40
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	12		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0296	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:09	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:32	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	5.7		mg/l	0.50	0.07	1	-	06/09/10 13:52	44,300.0	ED
Nitrogen, Nitrate	0.028	J	mg/l	0.05	0.01	1	-	06/09/10 13:51	44,300.0	AU
Sulfate	0.74	J	mg/l	1.0	0.12	1	-	06/15/10 06:56	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-06

Date Collected: 06/08/10 14:00

Client ID: GP-10-04-024-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	11		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0433	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:14	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	9	J	mg/l	20	7.0	1	-	06/10/10 04:33	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	2.0		mg/l	0.50	0.07	1	-	06/09/10 14:04	44,300.0	ED
Nitrogen, Nitrate	0.03	J	mg/l	0.05	0.01	1	-	06/09/10 14:03	44,300.0	AU
Sulfate	0.67	J	mg/l	1.0	0.12	1	-	06/15/10 07:56	44,300.0	AU

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-07
Client ID: GP-10-04-034-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 14:50
Date Received: 06/08/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	17		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0205	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:15	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:33	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	2.1		mg/l	0.50	0.07	1	-	06/09/10 15:30	44,300.0	ED
Nitrogen, Nitrate	0.10		mg/l	0.05	0.01	1	-	06/09/10 15:29	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.12	1	-	06/15/10 08:08	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-08

Date Collected: 06/08/10 15:10

Client ID: GP-10-04-044-F

Date Received: 06/08/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	22		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.024	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:16	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:33	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	23		mg/l	0.50	0.07	1	-	06/09/10 15:42	44,300.0	ED
Nitrogen, Nitrate	3.6		mg/l	1.0	0.14	20	-	06/09/10 16:53	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.12	1	-	06/15/10 08:20	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008513

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008513-09

Client ID: GDUP-060810-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/08/10 14:00

Date Received: 06/08/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	11		mg CaCO ₃ /L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0242	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:17	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:31	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:34	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	2.2		mg/l	0.50	0.07	1	-	06/09/10 15:54	44,300.0	ED
Nitrogen, Nitrate	0.049	J	mg/l	0.05	0.01	1	-	06/09/10 15:53	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.12	1	-	06/15/10 08:32	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03,05-09 Batch: WG416855-2										
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:28	30,4500NO2-B	DD
General Chemistry - Westborough Lab for sample(s): 01-03,05-09 Batch: WG417000-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:02	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-03,05-09 Batch: WG417058-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:30	44,410.4	BH
General Chemistry - Westborough Lab for sample(s): 01-03,05-09 Batch: WG417122-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	06/09/10 09:07	30,2320B	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03,05-09 Batch: WG417902-1										
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/09/10 12:39	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03,05-09 Batch: WG418105-1										
Sulfate	0.14	J	mg/l	1.0	0.12	1	-	06/15/10 07:32	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03,05-09 Batch: WG418933-1										
Chloride	ND		mg/l	0.50	0.07	1	-	06/09/10 12:40	44,300.0	ED

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008513

Report Date: 06/26/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG416855-1				
Nitrogen, Nitrite	100		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG417000-2				
Nitrogen, Ammonia	100		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG417058-2				
Chemical Oxygen Demand	101		-		95-105	-		
General Chemistry - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG417122-2				
Alkalinity, Total	103		-		80-115	-		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG417902-2				
Nitrogen, Nitrate	92		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG418105-2				
Sulfate	105		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s):	01-03,05-09		Batch:	WG418933-2				
Chloride	95		-		90-110	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG416855-3 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Nitrogen, Nitrite	ND	0.1	0.10	100	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG417000-3 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Nitrogen, Ammonia	ND	4	3.81	95	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG417058-4 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Chemical Oxygen Demand	ND	238	240	100	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG417122-3 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Alkalinity, Total	12	100	120	103	-	-	-	-	86-116	-	-	4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG417902-3 WG417902-4 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Nitrogen, Nitrate	ND	0.4	0.38	95	-	0.41	102	-	80-122	7	-	15
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG418105-3 WG418105-4 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Sulfate	ND	8	9.2	115	-	9.5	119	-	60-140	3	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-09 QC Batch ID: WG418933-3 WG418933-4 QC Sample: L1008513-05 Client ID: GP-10-04-014-F												
Chloride	5.7	4	7.3	40	-	7.2	38	Q	40-151	5	-	18

Project Name: SHL TASK 0002
Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1008513
Report Date: 06/26/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 014-F	QC Batch ID: WG416855-4	QC Sample: L1008513-05	Client ID: GP-10-04-			
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 014-F	QC Batch ID: WG417000-4	QC Sample: L1008513-05	Client ID: GP-10-04-			
Nitrogen, Ammonia	0.0296J	0.0339J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 014-F	QC Batch ID: WG417058-3	QC Sample: L1008513-05	Client ID: GP-10-04-			
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-09 014-F	QC Batch ID: WG417122-4	QC Sample: L1008513-05	Client ID: GP-10-04-			
Alkalinity, Total	12	12	mg CaCO3/L	0		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-09 GP-10-04-014-F	QC Batch ID: WG417902-5	QC Sample: L1008513-05	Client ID:			
Nitrogen, Nitrate	0.028J	0.031J	mg/l	NC		15
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-09 GP-10-04-014-F	QC Batch ID: WG418105-5	QC Sample: L1008513-05	Client ID:			
Sulfate	0.74J	1.3	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03,05-09 GP-10-04-014-F	QC Batch ID: WG418933-5	QC Sample: L1008513-05	Client ID:			
Chloride	5.7	3.8	mg/l	40	Q	18

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B Present/Intact

A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008513-01A	Plastic 250ml unpreserved	B	7	5	Y	Present/Intact	NO2-4500NO2(2)
L1008513-01B	Plastic 500ml HNO3 preserved	B	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-01C	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-01D	Plastic 500ml unpreserved	B	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-01E	Plastic 250ml unpreserved	B	N/A	5	Y	Present/Intact	ALK-T-2320(14)
L1008513-02A	Plastic 250ml unpreserved	B	7	5	Y	Present/Intact	NO2-4500NO2(2)
L1008513-02B	Plastic 500ml HNO3 preserved	B	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-02C	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-02D	Plastic 500ml unpreserved	B	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-02E	Plastic 250ml unpreserved	B	N/A	5	Y	Present/Intact	ALK-T-2320(14)
L1008513-03A	Plastic 250ml unpreserved	B	7	5	Y	Present/Intact	NO2-4500NO2(2)
L1008513-03B	Plastic 500ml HNO3 preserved	B	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-03C	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-03D	Plastic 500ml unpreserved	B	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-03E	Plastic 250ml unpreserved	B	N/A	5	Y	Present/Intact	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008513-04B	Plastic 500ml HNO3 preserved	B	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-05A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-05B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-05C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-05D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-05E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-05F	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-05G	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-05H	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-05I	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-05J	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-06A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-06B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-06C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-06D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-06E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-07A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-07B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-07C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-07D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-07E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)

*Values in parentheses indicate holding time in days



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008513

Report Date: 06/26/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008513-08A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-08B	Plastic 500ml HNO3 preserved	B	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-08C	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-08D	Plastic 500ml unpreserved	B	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-08E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-09A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-09B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008513-09C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-09D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008513-09E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	Spectra identified as "Aldol Condensation Product".
B	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	The RPD between the results for the two columns exceeds the method-specified criteria.
Q	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	Analytical results are from sample re-analysis.
RE	Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1008513

Project Number: AC001

Report Date: 06/26/10

Data Qualifiers

- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008513
Report Date: 06/26/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1 **Organic Parameters:** 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N, SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BG, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0 Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.**

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3. **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Client Information

Client: Sovereign Consulting Inc
Address: 905B South Main St
Manfield MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: pjmcbrain@sovereign.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples).

SDG#12 - Closed

Metals = As, Fe, Mn, Mg, Ca, K, Na

Project Information

Project Name: SHL Task 0002
Project Location: Ac Devens MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved!)
All others: As 24 TAT
Date Due: 6/10/10 Time:

Date Rec'd in Lab: 6/8/10

ALPHA Job #: L1008513

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS					SAMPLE HANDLING					TOTAL # BOTTLES
Metals by 6040A	Cl, SO ₄ , NO ₃ by 3000	Alkalinity	NH ₄ , CO ₂	NO ₂ by SAM200-NO2B	Filtration	Preservation	Sample Specific Comments			
✓	✓	✓	✓	✓	<input checked="" type="checkbox"/> Done	<input type="checkbox"/> Not needed			5	
✓	✓	✓	✓	✓	<input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab to do			5	
✓	✓	✓	✓	✓					5	
✓									1	
✓	✓	✓	✓	✓			MS/MSD		10	
✓	✓	✓	✓	✓					5	
✓	✓	✓	✓	✓					5	
✓	✓	✓	✓	✓					5	
✓	✓	✓	✓	✓					5	

PLEASE ANSWER QUESTIONS ABOVE!

Container Type P P P P P
Preservative EAADA

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: [Signature]

Date/Time: 6/8/10 1400

Received By: [Signature]

Date/Time: 6/8/10 1715

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number: L1008586

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 06/24/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008586
Report Date: 06/24/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008586-01	GP-10-04-054-F	DEVENS, MA	06/08/10 15:50
L1008586-02	GP-10-04-064-F	DEVENS, MA	06/08/10 16:25
L1008586-03	GP-10-04-074-F	DEVENS, MA	06/08/10 17:15
L1008586-04	GP-10-04-084-F	DEVENS, MA	06/08/10 17:50
L1008586-05	GP-10-04-094-F	DEVENS, MA	06/08/10 18:30
L1008586-06	GP-10-05-015-F	DEVENS, MA	06/09/10 09:58
L1008586-07	GP-10-05-025-F	DEVENS, MA	06/09/10 10:25
L1008586-08	GP-10-05-035-F	DEVENS, MA	06/09/10 10:53
L1008586-09	GP-10-05-045-F	DEVENS, MA	06/09/10 11:24
L1008586-10	GP-10-05A-029-F	DEVENS, MA	06/09/10 13:20
L1008586-11	GP-10-05A-039-F	DEVENS, MA	06/09/10 14:05
L1008586-12	GP-10-05A-049-F	DEVENS, MA	06/09/10 14:55
L1008586-13	GDUP-060910-F	DEVENS, MA	06/09/10 10:25
L1008586-14	GDUP2-060910-F	DEVENS, MA	06/09/10 14:05
L1008586-15	RB-060910-U	DEVENS, MA	06/09/10 12:30

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008586
Report Date: 06/24/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

L1008586-03, -04, -05, -07 through -10 and -13 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were not

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008586
Report Date: 06/24/10

Case Narrative (continued)

achieved for Arsenic on -03, -07, -10 and -13.

The WG417171-1 Method Blank, associated with L1008586-01 through -14, has a concentration greater than one half the reporting limit for Calcium. The results of all associated samples are greater than 10x the blank concentration; therefore, no qualification of results was performed.

The WG417171-5 Post Digestion Spike recovery for Calcium was outside the DoD acceptance criteria of 75-125%; therefore, the parent sample (L1008586-06) is "J" qualified for this element.

Chloride

L1008586-01 through 05, -09 and -10 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG417542-3/-4 MS/MSD recoveries (0%/0%), performed on L1008586-06, are invalid because the sample concentration is greater than four times the spike amount added.

Nitrogen, Nitrate

L1008586-01 through -05 were analyzed with the method required holding time exceeded. The results are reported at the client's request.

L1008586-01, -02, -06, -10, -11, -12 and -14 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

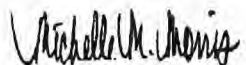
Sulfate

L1008586-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG417086-1 Method Blank, associated with L1008586-01 through -14, has a concentration above the reporting limit. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 10x the blank concentration for this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/24/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-01

Date Collected: 06/08/10 15:50

Client ID: GP-10-04-054-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.26	J	ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM
Calcium, Dissolved	57400		ug/l	100	12.6	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM
Iron, Dissolved	3040		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	14500		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM
Manganese, Dissolved	811		ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3360		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM
Sodium, Dissolved	36700		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 00:16	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008586
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-02
Client ID: GP-10-04-064-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 16:25
Date Received: 06/09/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.33	J	ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM
Calcium, Dissolved	75300		ug/l	100	12.6	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM
Iron, Dissolved	1200		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	12600		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM
Manganese, Dissolved	510		ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3020		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM
Sodium, Dissolved	73900		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 00:22	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-03

Date Collected: 06/08/10 17:15

Client ID: GP-10-04-074-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.33	J	ug/l	1.00	0.226	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM
Calcium, Dissolved	19400		ug/l	200	25.3	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM
Iron, Dissolved	3000		ug/l	100	16.8	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2470		ug/l	200	8.20	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM
Manganese, Dissolved	433		ug/l	2.00	0.272	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3260		ug/l	200	36.3	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM
Sodium, Dissolved	207000		ug/l	200	36.4	2	06/10/10 11:15	06/11/10 00:28	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-04
 Client ID: GP-10-04-084-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/08/10 17:50
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	1.27		ug/l	1.00	0.226	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM
Calcium, Dissolved	5640		ug/l	200	25.3	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM
Iron, Dissolved	896		ug/l	100	16.8	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	740		ug/l	200	8.20	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM
Manganese, Dissolved	91.4		ug/l	2.00	0.272	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM
Potassium, Dissolved	2000		ug/l	200	36.3	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM
Sodium, Dissolved	181000		ug/l	200	36.4	2	06/10/10 11:15	06/11/10 00:46	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-05

Date Collected: 06/08/10 18:30

Client ID: GP-10-04-094-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	15.1		ug/l	2.50	0.565	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM
Calcium, Dissolved	154000		ug/l	500	63.3	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM
Iron, Dissolved	3630		ug/l	250	42.0	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	20300		ug/l	500	20.5	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM
Manganese, Dissolved	3170		ug/l	5.00	0.680	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM
Potassium, Dissolved	12300		ug/l	500	90.8	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM
Sodium, Dissolved	325000		ug/l	500	91.0	5	06/10/10 11:15	06/11/10 00:52	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-06
 Client ID: GP-10-05-015-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 09:58
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.31	J	ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM
Calcium, Dissolved	7540	J	ug/l	100	12.6	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM
Iron, Dissolved	262		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1090		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM
Manganese, Dissolved	483		ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1280		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM
Sodium, Dissolved	11200		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 01:04	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008586
Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-07
Client ID: GP-10-05-025-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 10:25
Date Received: 06/09/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.58	J	ug/l	2.50	0.565	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM
Calcium, Dissolved	17000		ug/l	500	63.3	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM
Iron, Dissolved	1150		ug/l	250	42.0	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2590		ug/l	500	20.5	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM
Manganese, Dissolved	11200		ug/l	5.00	0.680	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1700		ug/l	500	90.8	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM
Sodium, Dissolved	23800		ug/l	500	91.0	5	06/10/10 11:15	06/11/10 01:28	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-08
 Client ID: GP-10-05-035-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 10:53
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	112		ug/l	2.50	0.565	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM
Calcium, Dissolved	12400		ug/l	500	63.3	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM
Iron, Dissolved	12600		ug/l	250	42.0	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2260		ug/l	500	20.5	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM
Manganese, Dissolved	4610		ug/l	5.00	0.680	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1160		ug/l	500	90.8	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM
Sodium, Dissolved	19100		ug/l	500	91.0	5	06/10/10 11:15	06/11/10 01:34	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-09

Date Collected: 06/09/10 11:24

Client ID: GP-10-05-045-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	84.7		ug/l	2.50	0.565	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM
Calcium, Dissolved	18800		ug/l	500	63.3	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM
Iron, Dissolved	11200		ug/l	250	42.0	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2550		ug/l	500	20.5	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM
Manganese, Dissolved	2320		ug/l	5.00	0.680	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1710		ug/l	500	90.8	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM
Sodium, Dissolved	28700		ug/l	500	91.0	5	06/10/10 11:15	06/11/10 01:40	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-10
 Client ID: GP-10-05A-029-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 13:20
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.62	J	ug/l	2.50	0.565	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM
Calcium, Dissolved	8140		ug/l	500	63.3	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM
Iron, Dissolved	604		ug/l	250	42.0	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	878		ug/l	500	20.5	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM
Manganese, Dissolved	63.8		ug/l	5.00	0.680	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3200		ug/l	500	90.8	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM
Sodium, Dissolved	272000		ug/l	500	91.0	5	06/10/10 11:15	06/11/10 01:58	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-11

Date Collected: 06/09/10 14:05

Client ID: GP-10-05A-039-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.35	J	ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM
Calcium, Dissolved	13600		ug/l	100	12.6	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM
Iron, Dissolved	2310		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2810		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM
Manganese, Dissolved	221		ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1420		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM
Sodium, Dissolved	27400		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:04	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-12
 Client ID: GP-10-05A-049-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 14:55
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	1.12		ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM
Calcium, Dissolved	16400		ug/l	100	12.6	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM
Iron, Dissolved	3360		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1990		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM
Manganese, Dissolved	203		ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1500		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM
Sodium, Dissolved	18600		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:10	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-13

Date Collected: 06/09/10 10:25

Client ID: GDUP-060910-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		ug/l	2.50	0.565	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM
Calcium, Dissolved	16800		ug/l	500	63.3	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM
Iron, Dissolved	572		ug/l	250	42.0	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2600		ug/l	500	20.5	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM
Manganese, Dissolved	11200		ug/l	5.00	0.680	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1580		ug/l	500	90.8	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM
Sodium, Dissolved	23900		ug/l	500	91.0	5	06/10/10 11:15	06/11/10 02:16	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-14
 Client ID: GDUP2-060910-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 14:05
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.33	J	ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM
Calcium, Dissolved	13900		ug/l	100	12.6	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM
Iron, Dissolved	2510		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2850		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM
Manganese, Dissolved	237		ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1490		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM
Sodium, Dissolved	30400		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:22	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-15

Date Collected: 06/09/10 12:30

Client ID: RB-060910-U

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/10/10 11:15	06/11/10 02:28	EPA 3005A	1,6020A	BM
Calcium, Dissolved	ND		ug/l	100	12.6	1	06/14/10 12:00	06/15/10 22:37	EPA 3005A	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/10/10 11:15	06/11/10 02:28	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/10/10 11:15	06/11/10 02:28	EPA 3005A	1,6020A	BM
Manganese, Dissolved	0.75	J	ug/l	1.00	0.136	1	06/10/10 11:15	06/11/10 02:28	EPA 3005A	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:28	EPA 3005A	1,6020A	BM
Sodium, Dissolved	29.1	J	ug/l	100	18.2	1	06/10/10 11:15	06/11/10 02:28	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-15 Batch: WG417171-1										
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM
Calcium, Dissolved	56.2	J	ug/l	100	12.6	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM
Manganese, Dissolved	0.18	J	ug/l	1.00	0.136	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/10/10 11:15	06/10/10 19:59	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 15 Batch: WG417791-1										
Calcium, Dissolved	ND		ug/l	100	12.6	1	06/14/10 12:00	06/15/10 21:18	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586

Report Date: 06/24/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-15 Batch: WG417171-2								
Arsenic, Dissolved	98	-	-	-	80-120	-	-	-
Calcium, Dissolved	102	-	-	-	80-120	-	-	-
Iron, Dissolved	103	-	-	-	80-120	-	-	-
Magnesium, Dissolved	97	-	-	-	80-120	-	-	-
Manganese, Dissolved	104	-	-	-	80-120	-	-	-
Potassium, Dissolved	98	-	-	-	80-120	-	-	-
Sodium, Dissolved	106	-	-	-	80-120	-	-	-
Dissolved Metals - Westborough Lab Associated sample(s): 15 Batch: WG417791-2								
Calcium, Dissolved	107	-	-	-	80-120	-	-	-

Matrix Spike Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586

Report Date: 06/24/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-15 QC Batch ID: WG417171-3 WG417171-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Arsenic, Dissolved	ND	120	120	100		121	101		80-120	1		20
Calcium, Dissolved	7540	10000	18000	105		18600	111		80-120	6		20
Iron, Dissolved	262	1000	1280	102		1310	105		80-120	3		20
Magnesium, Dissolved	1090	10000	10600	95		10600	95		80-120	0		20
Manganese, Dissolved	483	500	1030	109		1040	111		80-120	2		20
Potassium, Dissolved	1280	10000	11000	97		11200	99		80-120	2		20
Sodium, Dissolved	11200	10000	20100	89		20200	90		80-120	1		20
Dissolved Metals - Westborough Lab Associated sample(s): 15 QC Batch ID: WG417791-4 QC Sample: L1008586-15 Client ID: RB-060910-U												
Calcium, Dissolved	ND	10000	11400	114		-	-		80-120	-		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1008586

Report Date: 06/24/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 15 QC Batch ID: WG417791-3 QC Sample: L1008586-15 Client ID: RB-060910-U						
Calcium, Dissolved	ND	ND	ug/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-01

Date Collected: 06/08/10 15:50

Client ID: GP-10-04-054-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	100		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	2.67		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:31	30,4500NH3-BH	AT
Nitrogen, Nitrite	0.01	J	mg/l	0.02	0.002	1	-	06/09/10 22:48	30,4500NO2-B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	-	06/11/10 06:11	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	67		mg/l	12	1.6	25	-	06/10/10 00:20	44,300.0	AU
Nitrogen, Nitrate	5.8		mg/l	1.0	0.14	20	-	06/10/10 22:28	44,300.0	AU
Sulfate	87		mg/l	20	2.3	20	-	06/10/10 22:28	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-02

Client ID: GP-10-04-064-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/08/10 16:25

Date Received: 06/09/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	120		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.103		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:32	30,4500NH3-BH	AT
Nitrogen, Nitrite	0.01	J	mg/l	0.02	0.002	1	-	06/09/10 22:48	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/l	20	7.0	1	-	06/11/10 06:12	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	120		mg/l	10	1.3	20	-	06/10/10 04:20	44,300.0	AU
Nitrogen, Nitrate	3.8		mg/l	1.0	0.14	20	-	06/11/10 00:26	44,300.0	AU
Sulfate	97		mg/l	20	2.3	20	-	06/11/10 00:26	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-03

Date Collected: 06/08/10 17:15

Client ID: GP-10-04-074-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	100		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0522	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:33	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:48	30,4500NO2-B	DD
Chemical Oxygen Demand	31		mg/l	20	7.0	1	-	06/11/10 06:12	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	210		mg/l	5.0	0.65	10	-	06/10/10 06:20	44,300.0	AU
Nitrogen, Nitrate	0.48		mg/l	0.05	0.01	1	-	06/10/10 20:40	44,300.0	AU
Sulfate	32		mg/l	1.0	0.12	1	-	06/10/10 20:40	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-04

Client ID: GP-10-04-084-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/08/10 17:50

Date Received: 06/09/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	120		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0319	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:34	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:49	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	-	06/11/10 06:12	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	150		mg/l	5.0	0.65	10	-	06/10/10 06:32	44,300.0	AU
Nitrogen, Nitrate	0.12		mg/l	0.05	0.01	1	-	06/10/10 20:52	44,300.0	AU
Sulfate	34		mg/l	1.0	0.12	1	-	06/10/10 20:52	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-05

Date Collected: 06/08/10 18:30

Client ID: GP-10-04-094-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	140		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0543	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:35	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:49	30,4500NO2-B	DD
Chemical Oxygen Demand	38		mg/l	20	7.0	1	-	06/11/10 06:12	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	820		mg/l	10	1.3	20	-	06/10/10 07:08	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/10/10 21:04	44,300.0	AU
Sulfate	30		mg/l	1.0	0.12	1	-	06/10/10 21:04	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-06

Date Collected: 06/09/10 09:58

Client ID: GP-10-05-015-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	18		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0356	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:36	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:49	30,4500NO2-B	DD
Chemical Oxygen Demand	25		mg/l	20	7.0	1	-	06/11/10 06:12	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	19		mg/l	0.50	0.07	1	-	06/10/10 01:32	44,300.0	AU
Nitrogen, Nitrate	0.64		mg/l	0.10	0.01	2	-	06/10/10 20:04	44,300.0	AU
Sulfate	9.9		mg/l	1.0	0.12	1	-	06/10/10 22:04	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-07

Date Collected: 06/09/10 10:25

Client ID: GP-10-05-025-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	55		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.152		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:41	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:50	30,4500NO2-B	DD
Chemical Oxygen Demand	29		mg/l	20	7.0	1	-	06/11/10 06:14	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	48		mg/l	0.50	0.07	1	-	06/10/10 01:44	44,300.0	AU
Nitrogen, Nitrate	0.012	J	mg/l	0.05	0.01	1	-	06/10/10 21:16	44,300.0	AU
Sulfate	6.3	B	mg/l	1.0	0.12	1	-	06/10/10 21:16	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-08

Date Collected: 06/09/10 10:53

Client ID: GP-10-05-035-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	61		mg CaCO ₃ /L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.145		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:42	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:50	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/l	20	7.0	1	-	06/11/10 06:14	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	39		mg/l	0.50	0.07	1	-	06/10/10 02:56	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/10/10 21:28	44,300.0	AU
Sulfate	3.7	B	mg/l	1.0	0.12	1	-	06/10/10 21:28	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-09

Date Collected: 06/09/10 11:24

Client ID: GP-10-05-045-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	56		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.185		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:43	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:51	30,4500NO2-B	DD
Chemical Oxygen Demand	31		mg/l	20	7.0	1	-	06/11/10 06:14	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	45		mg/l	10	1.3	20	-	06/10/10 07:44	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/10/10 21:40	44,300.0	AU
Sulfate	1.8	B	mg/l	1.0	0.12	1	-	06/10/10 21:40	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-10
 Client ID: GP-10-05A-029-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 13:20
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	51		mg CaCO ₃ /L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0425	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:43	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:51	30,4500NO ₂ -B	DD
Chemical Oxygen Demand	56		mg/l	20	7.0	1	-	06/11/10 06:14	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	380		mg/l	10	1.3	20	-	06/10/10 07:56	44,300.0	AU
Nitrogen, Nitrate	1.9		mg/l	0.50	0.07	10	-	06/11/10 00:38	44,300.0	AU
Sulfate	16		mg/l	1.0	0.12	1	-	06/10/10 23:38	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-11

Date Collected: 06/09/10 14:05

Client ID: GP-10-05A-039-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	30		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0324	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:44	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:52	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	-	06/11/10 06:16	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	34		mg/l	0.50	0.07	1	-	06/10/10 03:32	44,300.0	AU
Nitrogen, Nitrate	2.1		mg/l	0.50	0.07	10	-	06/11/10 00:50	44,300.0	AU
Sulfate	25		mg/l	1.0	0.12	1	-	06/10/10 23:50	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-12

Date Collected: 06/09/10 14:55

Client ID: GP-10-05A-049-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	44		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0387	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:45	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:52	30,4500NO2-B	DD
Chemical Oxygen Demand	18	J	mg/l	20	7.0	1	-	06/11/10 06:16	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	20		mg/l	0.50	0.07	1	-	06/10/10 03:44	44,300.0	AU
Nitrogen, Nitrate	1.7		mg/l	0.50	0.07	10	-	06/11/10 01:02	44,300.0	AU
Sulfate	13		mg/l	1.0	0.12	1	-	06/11/10 00:02	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-13

Date Collected: 06/09/10 10:25

Client ID: GDUP-060910-F

Date Received: 06/09/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	56		mg CaCO ₃ /L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.114		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:46	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:53	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/l	20	7.0	1	-	06/11/10 06:16	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	47		mg/l	0.50	0.07	1	-	06/10/10 03:56	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/10/10 21:52	44,300.0	AU
Sulfate	4.3	B	mg/l	1.0	0.12	1	-	06/10/10 21:52	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: L1008586-14
 Client ID: GDUP2-060910-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 14:05
 Date Received: 06/09/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	32		mg CaCO ₃ /L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0388	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:47	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:53	30,4500NO2-B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	-	06/11/10 06:16	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab										
Chloride	35		mg/l	0.50	0.07	1	-	06/10/10 04:08	44,300.0	AU
Nitrogen, Nitrate	2.4		mg/l	0.50	0.07	10	-	06/11/10 01:14	44,300.0	AU
Sulfate	26		mg/l	1.0	0.12	1	-	06/11/10 00:14	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-14 Batch: WG417070-2										
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/09/10 22:46	30,4500NO2-B	DD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-14 Batch: WG417086-1										
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/10/10 18:28	44,300.0	AU
Sulfate	0.96	J	mg/l	1.0	0.12	1	-	06/10/10 18:28	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-14 Batch: WG417271-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01-14 Batch: WG417325-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/11/10 06:10	44,410.4	BH
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-14 Batch: WG417542-1										
Chloride	ND		mg/l	0.50	0.07	1	-	06/10/10 00:32	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-14 Batch: WG417691-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:18	30,4500NH3-BH	AT

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586

Report Date: 06/24/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-14 Batch: WG417070-1								
Nitrogen, Nitrite	100		-		90-110	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 Batch: WG417086-2								
Nitrogen, Nitrate	95		-		90-110	-		
Sulfate	110		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-14 Batch: WG417271-2								
Alkalinity, Total	103		-		80-115	-		4
General Chemistry - Westborough Lab Associated sample(s): 01-14 Batch: WG417325-2								
Chemical Oxygen Demand	98		-		95-105	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 Batch: WG417542-2								
Chloride	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-14 Batch: WG417691-2								
Nitrogen, Ammonia	100		-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008586
Report Date: 06/24/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417070-3 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Nitrogen, Nitrite	ND	0.1	0.11	110	-	-	-	-	85-115	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417086-3 WG417086-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Nitrogen, Nitrate	0.64	2	2.6	96	-	2.6	96	-	80-122	0	-	15
Sulfate	9.9	8	17	89	-	18	101	-	60-140	10	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417271-3 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Alkalinity, Total	18	100	120	103	-	-	-	-	86-116	-	-	4
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417325-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Chemical Oxygen Demand	25	238	260	100	-	-	-	-	80-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417542-3 WG417542-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Chloride	19	4	19	0	Q	19	0	Q	40-151	NC	-	18
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417691-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F												
Nitrogen, Ammonia	ND	4	3.85	96	-	-	-	-	80-120	-	-	20

Project Name: SHL TASK 0002
Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1008586
Report Date: 06/24/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417070-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417086-5 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Nitrogen, Nitrate	0.64	0.66	mg/l	3		15
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417086-5 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Sulfate	9.9	9.6	mg/l	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417271-4 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Alkalinity, Total	18.	19	mg CaCO3/L	1		4
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417325-3 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Chemical Oxygen Demand	25.	22	mg/l	13		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417542-5 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Chloride	19.	16	mg/l	17		18
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417691-3 QC Sample: L1008586-06 Client ID: GP-10-05-015-F						
Nitrogen, Ammonia	0.0356J	ND	mg/l	NC		20

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B	Present/Intact
C	Present/Intact
A	Present/Intact
D	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008586-01A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008586-01B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-01C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-01D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-01E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-02A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008586-02B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-02C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-02D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-02E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-03A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008586-03B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-03C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-03D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008586-03E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-04A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-04B	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-04C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-04D	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-04E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-05A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-05B	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-05C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-05D	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-05E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-06A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-06B	Plastic 500ml HNO3 preserved	C	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-06C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-06D	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-06E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-06F	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-06G	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-06H	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-06I	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-06J	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-07A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586

Report Date: 06/24/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008586-07B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-07C	Plastic 500ml H2SO4 preserved	C	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-07D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-07E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-08A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-08B	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-08C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-08D	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-08E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-09A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-09B	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-09C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-09D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-09E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-10A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-10B	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-10C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-10D	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-10E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-11A	Plastic 250ml unpreserved	D	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-11B	Plastic 500ml HNO3 preserved	D	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008586-11C	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-11D	Plastic 500ml unpreserved	D	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-11E	Plastic 250ml unpreserved	D	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-12A	Plastic 250ml unpreserved	D	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-12B	Plastic 500ml HNO3 preserved	D	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-12C	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-12D	Plastic 500ml unpreserved	D	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-12E	Plastic 250ml unpreserved	D	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-13A	Plastic 250ml unpreserved	D	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-13B	Plastic 500ml HNO3 preserved	D	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-13C	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-13D	Plastic 500ml unpreserved	D	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-13E	Plastic 250ml unpreserved	D	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-14A	Plastic 250ml unpreserved	B	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-14B	Plastic 500ml HNO3 preserved	B	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008586-14C	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-14D	Plastic 500ml unpreserved	B	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008586-14E	Plastic 250ml unpreserved	B	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-15B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.
- RE - Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

Data Qualifiers

- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, **Organic Parameters:** Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. **Organic Parameters:** 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti)

(EPA 200.7 for: Ba, Be, Ca, Cd, Cr, Cu, Na, Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn)

(EPA 200.7 for: Al, Sb, As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, Se, Ag, Sr, Ti, Tl, V, Zn, Ca, Mg, Na, K)

245.1, SM4500H-B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B, C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B, E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.**

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B.

Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 2

Project Information

Project Name: *SHL Task Order*

Project Location: *Dover's MA*

Project #: *AC001*

Project Manager: *Phil McBain*

ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved!)
All others *As 24 hr TAT*
Date Due: *6/11/10* Time:

Client Information

Client: *Sovereign Consulting Inc*

Address: *905B South Main St
Mansfield, MA 02048*

Phone: *508-339-3200*

Fax: *508-339-3248*

Email: *pmbain@sovereign.com*

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDGH 13 - closed

Metals = As, Ca, Fe, Mn, K, Mg, Ni

Date Rec'd in Lab: *6/9/10*

ALPHA Job #: *40-586*

Report Information - Data Deliverables

☐ FAX

☐ ADEX

☒ EMAIL *EOR*

☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State /Fed Program

Criteria *SEE QAPP*

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☐ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	SAMPLE HANDLING									
	Filtration _____ <input checked="" type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation _____ <input type="checkbox"/> Lab to do (Please specify below)									
<i>Metals by 6000A</i>	<i>Cl, SO4, NO3 by 3000</i>	<i>Alkalinity</i>	<i>NH4, CO2</i>	<i>NO2 by SM1500-NO2B</i>						
Sample Specific Comments										

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											TOTAL # BOTTLES
		Date	Time													
<i>8586</i>	<i>11</i>	<i>GP-10-05A-039-F</i>	<i>6/9/10</i>	<i>1405</i>	<i>GW</i>	<i>PJV</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<i>5</i>
	<i>12</i>	<i>GP-10-05A-049-F</i>	<i>6/9/10</i>	<i>1455</i>	<i>GW</i>	<i>PJV</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<i>5</i>
	<i>13</i>	<i>GDEP-060910-F</i>	<i>6/9/10</i>	<i>1025</i>	<i>GW</i>	<i>PJV</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<i>5</i>
	<i>14</i>	<i>GDEP-060910-F</i>	<i>6/9/10</i>	<i>1405</i>	<i>GW</i>	<i>PJV</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<i>5</i>
	<i>15</i>	<i>RB-060910-L</i>	<i>6/9/10</i>	<i>1230</i>	<i>GW</i>	<i>PJV</i>	<input checked="" type="checkbox"/>									<i>1</i>

PLEASE ANSWER QUESTIONS ABOVE!

Container Type

P P P P P

Preservative

C A A D A

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

[Signature]

Date/Time

6/9/10 1600
6/9/10 1715

Received By:

[Signature]
Kim Bailey

Date/Time

6/9/10 1600
6/9/10 1715

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number: L1008682

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 06/29/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008682
Report Date: 06/29/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008682-01	GP-10-05A-059-F	DEVENS, MA	06/09/10 15:57
L1008682-02	GP-10-05A-069-F	DEVENS, MA	06/09/10 17:15
L1008682-03	GP-10-05A-079-F	DEVENS, MA	06/09/10 18:45
L1008682-04	GP-10-05A-089-F	DEVENS, MA	06/09/10 19:20
L1008682-05	GP-10-05A-099-F	DEVENS, MA	06/09/10 19:40
L1008682-06	GP-10-05A-109-F	DEVENS, MA	06/09/10 20:10
L1008682-07	GP-10-03-029-F	DEVENS, MA	06/10/10 08:25
L1008682-08	GP-10-03-039-F	DEVENS, MA	06/10/10 09:20
L1008682-09	GP-10-03-049-F	DEVENS, MA	06/10/10 10:00
L1008682-10	GP-10-03-059-F	DEVENS, MA	06/10/10 10:40
L1008682-11	GP-10-03-069-F	DEVENS, MA	06/10/10 11:20
L1008682-12	GDUP-061010-F	DEVENS, MA	06/10/10 09:20
L1008682-13	GDUP2-061010-F	DEVENS, MA	06/10/10 11:20
L1008682-14	RB-061010-U	DEVENS, MA	06/10/10 13:30

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008682
Report Date: 06/29/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Dissolved Metals

L1008682-08, -10, -11 and -12 have elevated detection limit for all analytes due to the dilution required by the high concentrations of non-target analytes. The requested reporting limit for Arsenic was not achieved for

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

Case Narrative (continued)

samples L1008682-08, -10 and -12.

L1008682-09 and -13 have elevated detection limit for all analytes due to the dilution required by the high concentrations of target analytes. The requested reporting limit for Arsenic was not achieved for L1008682-09. The WG417375-3/-4 MS/MSD recoveries, performed on L1008682-07, are above the acceptance criteria for Calcium (138%/122%). A post digestion spike was performed with an unacceptable recovery of 300%. The parent sample (L1008682-07) should be qualified as "J".

The WG417375-3 MS recovery for Sodium (150%), performed on L1008682-07, is invalid because the sample concentration is greater than four times the spike amount added. The WG417375-3/-4 MS/MSD RPD, associated with L1008682-07, is above the acceptance criteria for Sodium (40%); the parent sample (L1008286-07) is qualified with a "J" for Sodium.

Chloride

L1008682-05 through -13 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Nitrate

L1008682-01 through -04, -06 through -10 and -12 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

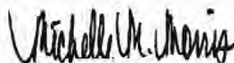
L1008682-01 through -06 were analyzed with the method required holding time exceeded.

Sulfate

L1008682-01 through -13 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/29/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-01
 Client ID: GP-10-05A-059-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 15:57
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.39	J	ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM
Calcium, Dissolved	17700		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM
Iron, Dissolved	1840		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2060		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM
Manganese, Dissolved	214		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1980		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM
Sodium, Dissolved	24200		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 15:53	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-02
 Client ID: GP-10-05A-069-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 17:15
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.590		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM
Calcium, Dissolved	19400		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM
Iron, Dissolved	797		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2340		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM
Manganese, Dissolved	466		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1880		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM
Sodium, Dissolved	22200		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:10	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-03
 Client ID: GP-10-05A-079-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 18:45
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	2.18		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM
Calcium, Dissolved	16500		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM
Iron, Dissolved	57.9		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1940		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM
Manganese, Dissolved	114		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1550		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM
Sodium, Dissolved	17700		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:16	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-04
 Client ID: GP-10-05A-089-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 19:20
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	5.09		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM
Calcium, Dissolved	20000		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM
Iron, Dissolved	467		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1990		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM
Manganese, Dissolved	70.3		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM
Potassium, Dissolved	1940		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM
Sodium, Dissolved	17800		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-05
 Client ID: GP-10-05A-099-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 19:40
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	4.16		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM
Calcium, Dissolved	65800		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM
Iron, Dissolved	558		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	5740		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM
Manganese, Dissolved	294		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4190		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM
Sodium, Dissolved	30800		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:28	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-06
 Client ID: GP-10-05A-109-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 20:10
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	1.92		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM
Calcium, Dissolved	111000		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM
Iron, Dissolved	3730		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	13500		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1320		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM
Potassium, Dissolved	6990		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM
Sodium, Dissolved	104000		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:34	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008682
Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-07
Client ID: GP-10-03-029-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/10/10 08:25
Date Received: 06/10/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.500		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM
Calcium, Dissolved	27400	J	ug/l	100	12.6	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM
Iron, Dissolved	582		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	3580		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM
Manganese, Dissolved	71.0		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM
Potassium, Dissolved	2900		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM
Sodium, Dissolved	126000	J	ug/l	100	18.2	1	06/11/10 08:00	06/11/10 16:46	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-08
 Client ID: GP-10-03-039-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/10/10 09:20
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.61	J	ug/l	2.00	0.452	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM
Calcium, Dissolved	76800		ug/l	400	50.6	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM
Iron, Dissolved	704		ug/l	200	33.6	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	9840		ug/l	400	16.4	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM
Manganese, Dissolved	59.8		ug/l	4.00	0.544	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4660		ug/l	400	72.6	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM
Sodium, Dissolved	312000		ug/l	400	72.8	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-09

Date Collected: 06/10/10 10:00

Client ID: GP-10-03-049-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		ug/l	2.50	0.565	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM
Calcium, Dissolved	110000		ug/l	500	63.3	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM
Iron, Dissolved	1580		ug/l	250	42.0	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	12900		ug/l	500	20.5	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM
Manganese, Dissolved	62.9		ug/l	5.00	0.680	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM
Potassium, Dissolved	6040		ug/l	500	90.8	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM
Sodium, Dissolved	471000		ug/l	500	91.0	5	06/11/10 08:00	06/11/10 17:28	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-10
 Client ID: GP-10-03-059-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/10/10 10:40
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.92	J	ug/l	4.00	0.904	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM
Calcium, Dissolved	103000		ug/l	800	101.	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM
Iron, Dissolved	5210		ug/l	400	67.3	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	11400		ug/l	800	32.8	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM
Manganese, Dissolved	254		ug/l	8.00	1.09	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM
Potassium, Dissolved	7040		ug/l	800	145.	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM
Sodium, Dissolved	598000		ug/l	800	146.	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-11

Date Collected: 06/10/10 11:20

Client ID: GP-10-03-069-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	3.47		ug/l	2.00	0.452	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM
Calcium, Dissolved	224000		ug/l	400	50.6	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM
Iron, Dissolved	7530		ug/l	200	33.6	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	29200		ug/l	400	16.4	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM
Manganese, Dissolved	633		ug/l	4.00	0.544	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM
Potassium, Dissolved	9380		ug/l	400	72.6	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM
Sodium, Dissolved	456000		ug/l	400	72.8	4	06/11/10 08:00	06/11/10 17:40	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-12

Date Collected: 06/10/10 09:20

Client ID: GDUP-061010-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		ug/l	2.00	0.452	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM
Calcium, Dissolved	83800		ug/l	400	50.6	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM
Iron, Dissolved	790		ug/l	200	33.6	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	10900		ug/l	400	16.4	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM
Manganese, Dissolved	68.4		ug/l	4.00	0.544	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM
Potassium, Dissolved	5010		ug/l	400	72.6	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM
Sodium, Dissolved	345000		ug/l	400	72.8	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-13
 Client ID: GDUP2-061010-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/10/10 11:20
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	3.85		ug/l	2.50	0.565	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM
Calcium, Dissolved	252000		ug/l	500	63.3	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM
Iron, Dissolved	8210		ug/l	250	42.0	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	32700		ug/l	500	20.5	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM
Manganese, Dissolved	710		ug/l	5.00	0.680	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM
Potassium, Dissolved	10500		ug/l	500	90.8	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM
Sodium, Dissolved	502000		ug/l	500	91.0	5	06/11/10 08:00	06/11/10 17:52	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-14

Date Collected: 06/10/10 13:30

Client ID: RB-061010-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM
Calcium, Dissolved	123		ug/l	100	12.6	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM
Sodium, Dissolved	51.1	J	ug/l	100	18.2	1	06/11/10 08:00	06/11/10 17:58	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-14 Batch: WG417375-1										
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM
Calcium, Dissolved	37.5	J	ug/l	100	12.6	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM
Sodium, Dissolved	24.6	J	ug/l	100	18.2	1	06/11/10 08:00	06/11/10 15:41	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-14 Batch: WG417375-2								
Arsenic, Dissolved	100		-		80-120	-		
Calcium, Dissolved	104		-		80-120	-		
Iron, Dissolved	107		-		80-120	-		
Magnesium, Dissolved	89		-		80-120	-		
Manganese, Dissolved	105		-		80-120	-		
Potassium, Dissolved	101		-		80-120	-		
Sodium, Dissolved	106		-		80-120	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG417375-3 WG417375-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Arsenic, Dissolved	0.500	120	135	112		128	107		80-120	5		20
Calcium, Dissolved	27400	10000	41200	138	Q	39600	122	Q	80-120	12		20
Iron, Dissolved	582	1000	1720	114		1640	106		80-120	7		20
Magnesium, Dissolved	3580	10000	14100	105		13700	101		80-120	4		20
Manganese, Dissolved	71.0	500	622	110		604	107		80-120	3		20
Potassium, Dissolved	2900	10000	13600	107		13000	101		80-120	6		20
Sodium, Dissolved	126000	10000	141000	150		136000	100		80-120	40	Q	20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-01

Date Collected: 06/09/10 15:57

Client ID: GP-10-05A-059-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	44		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.092		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:56	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:51	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/14/10 12:10	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	43		mg/l	0.50	0.07	1	-	06/20/10 17:07	44,300.0	AU
Nitrogen, Nitrate	0.72		mg/l	0.10	0.01	2	-	06/11/10 20:06	44,300.0	AU
Sulfate	13		mg/l	2.0	0.23	2	-	06/23/10 15:37	44,300.0	AU

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008682
Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-02
Client ID: GP-10-05A-069-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 17:15
Date Received: 06/10/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	49		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0442	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:57	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:52	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/14/10 12:10	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	30		mg/l	0.50	0.07	1	-	06/20/10 17:19	44,300.0	AU
Nitrogen, Nitrate	1.2		mg/l	0.25	0.04	5	-	06/11/10 20:18	44,300.0	AU
Sulfate	14		mg/l	2.0	0.23	2	-	06/23/10 15:49	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-03
 Client ID: GP-10-05A-079-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 18:45
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	54		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.042	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:58	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:53	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/14/10 12:10	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	22		mg/l	0.50	0.07	1	-	06/20/10 17:31	44,300.0	AU
Nitrogen, Nitrate	1.0		mg/l	0.25	0.04	5	-	06/11/10 20:30	44,300.0	AU
Sulfate	10		mg/l	2.0	0.23	2	-	06/23/10 16:01	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-04

Date Collected: 06/09/10 19:20

Client ID: GP-10-05A-089-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	55		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0325	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:59	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:53	30,4500NO ₂ -B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	21		mg/l	0.50	0.07	1	-	06/20/10 17:43	44,300.0	AU
Nitrogen, Nitrate	1.0		mg/l	0.25	0.04	5	-	06/11/10 20:42	44,300.0	AU
Sulfate	8.9		mg/l	2.0	0.23	2	-	06/23/10 17:01	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-05
 Client ID: GP-10-05A-099-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 19:40
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	170		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.082		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:00	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:54	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	56		mg/l	1.0	0.13	2	-	06/20/10 17:55	44,300.0	AU
Nitrogen, Nitrate	0.26		mg/l	0.05	0.01	1	-	06/11/10 20:54	44,300.0	AU
Sulfate	24		mg/l	5.0	0.59	5	-	06/23/10 17:13	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-06

Date Collected: 06/09/10 20:10

Client ID: GP-10-05A-109-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	270		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.154		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:00	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:54	30,4500NO2-B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	140		mg/l	2.5	0.33	5	-	06/20/10 18:07	44,300.0	AU
Nitrogen, Nitrate	1.0		mg/l	0.25	0.04	5	-	06/11/10 21:06	44,300.0	AU
Sulfate	30		mg/l	5.0	0.59	5	-	06/23/10 17:25	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-07

Date Collected: 06/10/10 08:25

Client ID: GP-10-03-029-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	46		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0326	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:04	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:54	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	210		mg/l	4.0	0.52	8	-	06/20/10 18:19	44,300.0	AU
Nitrogen, Nitrate	1.4		mg/l	0.25	0.04	5	-	06/11/10 21:18	44,300.0	AU
Sulfate	48		mg/l	10	1.2	10	-	06/23/10 21:15	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-08

Date Collected: 06/10/10 09:20

Client ID: GP-10-03-039-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	65		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.046	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:06	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:55	30,4500NO2-B	DD
Chemical Oxygen Demand	27		mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	600		mg/l	25	3.3	50	-	06/20/10 19:31	44,300.0	AU
Nitrogen, Nitrate	4.4		mg/l	1.0	0.14	20	-	06/11/10 22:30	44,300.0	AU
Sulfate	31		mg/l	5.0	0.59	5	-	06/23/10 17:37	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-09

Date Collected: 06/10/10 10:00

Client ID: GP-10-03-049-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	53		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0287	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:07	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:56	30,4500NO ₂ -B	DD
Chemical Oxygen Demand	38		mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	870		mg/l	25	3.3	50	-	06/20/10 19:43	44,300.0	AU
Nitrogen, Nitrate	0.58		mg/l	0.10	0.01	2	-	06/11/10 22:42	44,300.0	AU
Sulfate	49		mg/l	10	1.2	10	-	06/23/10 21:27	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-10

Date Collected: 06/10/10 10:40

Client ID: GP-10-03-059-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	110		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0264	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:08	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:57	30,4500NO ₂ -B	DD
Chemical Oxygen Demand	47		mg/l	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	1100		mg/l	25	3.3	50	-	06/20/10 19:55	44,300.0	AU
Nitrogen, Nitrate	0.63		mg/l	0.10	0.01	2	-	06/11/10 22:54	44,300.0	AU
Sulfate	35		mg/l	5.0	0.59	5	-	06/23/10 17:49	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-11

Date Collected: 06/10/10 11:20

Client ID: GP-10-03-069-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	100		mg CaCO ₃ /L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.031	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:09	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:58	30,4500NO ₂ -B	DD
Chemical Oxygen Demand	43		mg/l	20	7.0	1	-	06/14/10 12:12	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	1200		mg/l	25	3.3	50	-	06/20/10 20:07	44,300.0	AU
Nitrogen, Nitrate	0.02	J	mg/l	0.05	0.01	1	-	06/11/10 23:06	44,300.0	AU
Sulfate	38		mg/l	5.0	0.59	5	-	06/23/10 18:01	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-12

Date Collected: 06/10/10 09:20

Client ID: GDUP-061010-F

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	65		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	ND		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:10	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:58	30,4500NO2-B	DD
Chemical Oxygen Demand	22		mg/l	20	7.0	1	-	06/14/10 12:12	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	620		mg/l	25	3.3	50	-	06/20/10 20:19	44,300.0	AU
Nitrogen, Nitrate	4.3		mg/l	1.0	0.14	20	-	06/11/10 23:30	44,300.0	AU
Sulfate	33		mg/l	5.0	0.59	5	-	06/23/10 18:13	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-13
 Client ID: GDUP2-061010-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/10/10 11:20
 Date Received: 06/10/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	100		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	ND		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:11	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:59	30,4500NO2-B	DD
Chemical Oxygen Demand	47		mg/l	20	7.0	1	-	06/14/10 12:12	44,410.4	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	1200		mg/l	25	3.3	50	-	06/20/10 20:31	44,300.0	AU
Nitrogen, Nitrate	0.024	J	mg/l	0.05	0.01	1	-	06/11/10 23:18	44,300.0	AU
Sulfate	38		mg/l	5.0	0.59	5	-	06/23/10 18:25	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG417301-2										
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/10/10 21:50	30,4500NO2-B	DD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-13 Batch: WG417324-1										
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/11/10 19:42	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG417683-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:42	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG417703-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/14/10 12:10	44,410.4	DW
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG417869-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	06/14/10 09:45	30,2320B	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-13 Batch: WG418939-1										
Chloride	ND		mg/l	0.50	0.07	1	-	06/20/10 16:43	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-13 Batch: WG419578-1										
Sulfate	0.48	J	mg/l	1.0	0.12	1	-	06/23/10 12:49	44,300.0	AU

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG417301-1								
Nitrogen, Nitrite	100				90-110	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 Batch: WG417324-2								
Nitrogen, Nitrate	102				90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG417683-2								
Nitrogen, Ammonia	97				80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG417703-2								
Chemical Oxygen Demand	99				95-105	-		
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG417869-2								
Alkalinity, Total	102				80-115	-		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 Batch: WG418939-2								
Chloride	108				90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 Batch: WG419578-2								
Sulfate	98				90-110	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417301-3 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Nitrogen, Nitrite	ND	0.1	0.10	100	-	-	-	-	85-115	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417324-3 WG417324-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Nitrogen, Nitrate	1.4	4	5.9	112	-	0.55	101	-	80-122	10	-	15
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417683-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Nitrogen, Ammonia	ND	4	3.91	98	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417703-3 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Chemical Oxygen Demand	ND	238	240	102	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417869-3 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Alkalinity, Total	46	100	150	99	-	-	-	-	86-116	-	-	4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG418939-3 WG418939-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Chloride	210	32	240	99	-	30	86	-	40-151	14	-	18
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG419578-3 WG419578-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F												
Sulfate	48	200	250	102	-	ND	106	-	60-140	4	-	20

Project Name: SHL TASK 0002
Project Number: AC001

Lab Duplicate Analysis Batch Quality Control

Lab Number: L1008682
Report Date: 06/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417301-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417324-5 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Nitrogen, Nitrate	1.4	1.5	mg/l	7		15
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417683-3 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Nitrogen, Ammonia	0.0326J	0.0299J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417703-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Chemical Oxygen Demand	ND	11J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG417869-4 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Alkalinity, Total	46	45	mg CaCO3/L	2		4
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG418939-5 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Chloride	210	210	mg/l	0		18
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG419578-5 QC Sample: L1008682-07 Client ID: GP-10-03-029-F						
Sulfate	48.	57	mg/l	17		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B	Present/Intact
C	Present/Intact
A	Present/Intact
D	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008682-01A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-01B	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-01C	Plastic 500ml H2SO4 preserved	D	<2	2.2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-01D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-01E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-02A	Plastic 250ml unpreserved	C	7	2.1	Y	Present/Intact	NO2-4500NO2(2)
L1008682-02B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-02C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-02D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-02E	Plastic 250ml unpreserved	C	N/A	2.1	Y	Present/Intact	ALK-T-2320(14)
L1008682-03A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-03B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-03C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-03D	Plastic 500ml unpreserved	C	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)

*Values in parentheses indicate holding time in days



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008682-03E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-04A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-04B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-04C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-04D	Plastic 500ml unpreserved	C	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-04E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-05A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-05B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-05C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-05D	Plastic 500ml unpreserved	C	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-05E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-06A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-06B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-06C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-06D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-06E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-07A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-07B	Plastic 500ml HNO3 preserved	B	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-07C	Plastic 500ml H2SO4 preserved	B	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-07D	Plastic 500ml unpreserved	B	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-07E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-07F	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008682-07G	Plastic 500ml HNO3 preserved	B	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-07H	Plastic 500ml H2SO4 preserved	B	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-07I	Plastic 500ml unpreserved	B	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-07J	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-08A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-08B	Plastic 500ml HNO3 preserved	B	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-08C	Plastic 500ml H2SO4 preserved	B	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-08D	Plastic 500ml unpreserved	B	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-08E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-09A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-09B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-09C	Plastic 500ml H2SO4 preserved	B	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-09D	Plastic 500ml unpreserved	B	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-09E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-10A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-10B	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-10C	Plastic 500ml H2SO4 preserved	D	<2	2.2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-10D	Plastic 500ml unpreserved	A	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-10E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-11A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-11B	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008682-11C	Plastic 500ml H2SO4 preserved	D	<2	2.2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-11D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-11E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-12A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-12B	Plastic 500ml HNO3 preserved	B	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-12C	Plastic 500ml H2SO4 preserved	B	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-12D	Plastic 500ml unpreserved	B	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-12E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-13A	Plastic 250ml unpreserved	B	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-13B	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-13C	Plastic 500ml H2SO4 preserved	B	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-13D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-13E	Plastic 250ml unpreserved	B	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-14B	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)

Container Comments

L1008682-01B

L1008682-07B

*Values in parentheses indicate holding time in days



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	Spectra identified as "Aldol Condensation Product".
B	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	The RPD between the results for the two columns exceeds the method-specified criteria.
Q	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	Analytical results are from sample re-analysis.
RE	Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1008682

Project Number: AC001

Report Date: 06/29/10

Data Qualifiers

- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002**Lab Number:** L1008682**Project Number:** AC001**Report Date:** 06/29/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. **Organic Parameters:** 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CL-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.**

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 6/10/10

ALPHA Job #: L1008682
1008677

Client Information

Client: Sovereign Consulting Inc

Address: 905B South Main St

Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmcain@swcon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG #14 - Closed

Metals = As, Ca, Na, Mn, Mg, Fe, K

Project Information

Project Name: SHL Task 0002

Project Location: Deven's MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved)
All others As 24h-TAT
Date Due: 6/10/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

Metals by ICP-AES
Cl, SO4, NO3 by 300.0
Alkalinity by
NH4, EOD
NO3 by 300.0, 400.0

SAMPLE HANDLING

Filtration _____
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	Analysis	MS/MSD	Total # Bottles
8677-1	GP-10-05A-059-F	6/9/10 1557	GW	PJV	✓ ✓ ✓ ✓ ✓		5
8682-2	GP-10-05A-069-F	6/9/10 1715	GW	PJV	✓ ✓ ✓ ✓ ✓		5
3	GP-10-05A-079-F	6/9/10 1845	GW	PJV	✓ ✓ ✓ ✓ ✓		5
4	GP-10-05A-089-F	6/9/10 1920	GW	PJV	✓ ✓ ✓ ✓ ✓		5
5	GP-10-05A-099-F	6/9/10 1940	GW	PJV	✓ ✓ ✓ ✓ ✓		5
6	GP-10-05A-109-F	6/9/10 2010	GW	PJV	✓ ✓ ✓ ✓ ✓		5
7	GP-10-03-029-F	6/10/10 0825	GW	PJV	✓ ✓ ✓ ✓ ✓	MS/MSD	10
8	GP-10-03-039-F	6/10/10 0920	GW	PJV	✓ ✓ ✓ ✓ ✓		5
9	GP-10-03-049-F	6/10/10 1000	GW	PJV	✓ ✓ ✓ ✓ ✓		5
10	GP-10-03-059-F	6/10/10 1040	GW	PJV	✓ ✓ ✓ ✓ ✓		5

PLEASE ANSWER QUESTIONS ABOVE!

Container Type P P P P P

Preservative C A A D A

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Phil McBain
6/10/10 1600

6/10/10 1600

Kim Bailey
6/10/10 1705

6/10/10 1705

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number: L1008691

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 06/26/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008691-01	GP-10-02-024-U	DEVENS, MA	06/07/10 09:50
L1008691-02	GP-10-02-034-U	DEVENS, MA	06/07/10 10:42
L1008691-03	GP-10-02-044-U	DEVENS, MA	06/07/10 11:35
L1008691-04	GP-10-02-054-U	DEVENS, MA	06/07/10 12:27
L1008691-05	GP-10-02-064-U	DEVENS, MA	06/07/10 13:08
L1008691-06	GP-10-02-074-U	DEVENS, MA	06/07/10 15:05
L1008691-07	GP-10-02-084-U	DEVENS, MA	06/07/10 18:12
L1008691-08	GP-10-02-094-U	DEVENS, MA	06/08/10 09:25
L1008691-09	GP-10-02-102-U	DEVENS, MA	06/08/10 10:10
L1008691-10	GP-10-04-014-U	DEVENS, MA	06/08/10 12:40
L1008691-11	GP-10-04-024-U	DEVENS, MA	06/08/10 14:00
L1008691-12	GP-10-04-034-U	DEVENS, MA	06/08/10 14:50
L1008691-13	GP-10-04-044-U	DEVENS, MA	06/08/10 15:10
L1008691-14	GP-10-04-054-U	DEVENS, MA	06/08/10 15:50
L1008691-15	GP-10-04-064-U	DEVENS, MA	06/08/10 16:25
L1008691-16	GP-10-04-074-U	DEVENS, MA	06/08/10 17:15
L1008691-17	GP-10-04-084-U	DEVENS, MA	06/08/10 17:50
L1008691-18	GP-10-04-094-U	DEVENS, MA	06/08/10 18:30
L1008691-19	GP-10-05-015-U	DEVENS, MA	06/09/10 09:58
L1008691-20	GP-10-05-025-U	DEVENS, MA	06/09/10 10:25
L1008691-21	GP-10-05-035-U	DEVENS, MA	06/09/10 10:53
L1008691-22	GP-10-05-045-U	DEVENS, MA	06/09/10 11:24
L1008691-23	GP-10-05A-029-U	DEVENS, MA	06/09/10 13:20
L1008691-24	GP-10-05A-039-U	DEVENS, MA	06/09/10 14:05
L1008691-25	GP-10-05A-049-U	DEVENS, MA	06/09/10 14:55
L1008691-26	GP-10-05A-059-U	DEVENS, MA	06/09/10 15:57
L1008691-27	GP-10-05A-069-U	DEVENS, MA	06/09/10 17:15
L1008691-28	GP-10-05A-079-U	DEVENS, MA	06/09/10 18:45
L1008691-29	GP-10-05A-089-U	DEVENS, MA	06/09/10 19:20
L1008691-30	GP-10-05A-099-U	DEVENS, MA	06/09/10 19:40
L1008691-31	GP-10-05A-109-U	DEVENS, MA	06/09/10 20:10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008691-32	GP-10-03-029-U	DEVENS, MA	06/10/10 08:25
L1008691-33	GP-10-03-039-U	DEVENS, MA	06/10/10 09:20
L1008691-34	GP-10-03-049-U	DEVENS, MA	06/10/10 10:00
L1008691-35	GP-10-03-059-U	DEVENS, MA	06/10/10 10:40
L1008691-36	GP-10-03-069-U	DEVENS, MA	06/10/10 11:20

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.


Arsenic, Total

L1008691-06 through -09, -16 through -18, -21, -22, -27, -28, -30, -31 and -33 through -36 have elevated detection limits for Arsenic due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

L1008691-20 has an elevated detection limit for Arsenic due to the dilution required by the high concentrations of non-target analytes. The requested reporting limit was not achieved.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/26/10

METALS



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-01

Client ID: GP-10-02-024-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/07/10 09:50

Date Received: 06/10/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.41	J	ug/l	0.500	0.113	1	06/11/10 10:30	06/16/10 23:53	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-02
Client ID: GP-10-02-034-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 10:42
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.670		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 00:17	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-03

Date Collected: 06/07/10 11:35

Client ID: GP-10-02-044-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	1.64		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 00:23	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-04

Date Collected: 06/07/10 12:27

Client ID: GP-10-02-054-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	2.43		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 00:29	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002**Lab Number:** L1008691**Project Number:** AC001**Report Date:** 06/26/10**SAMPLE RESULTS**

Lab ID: L1008691-05
Client ID: GP-10-02-064-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/07/10 13:08
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.87		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 00:35	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1008691**Report Date:** 06/26/10**SAMPLE RESULTS****Lab ID:** L1008691-06**Client ID:** GP-10-02-074-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 06/07/10 15:05**Date Received:** 06/10/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	36.9		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 00:41	EPA 3005A	1.6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-07

Date Collected: 06/07/10 18:12

Client ID: GP-10-02-084-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	24.8		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 00:59	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-08

Client ID: GP-10-02-094-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/08/10 09:25

Date Received: 06/10/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	127		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 01:05	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-09

Client ID: GP-10-02-102-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/08/10 10:10

Date Received: 06/10/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	84.6		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 01:11	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-10

Date Collected: 06/08/10 12:40

Client ID: GP-10-04-014-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	2.26		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 01:17	EPA 3005A	1.6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-11
 Client ID: GP-10-04-024-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/08/10 14:00
 Date Received: 06/10/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	2.19		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 01:23	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-12

Client ID: GP-10-04-034-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/08/10 14:50

Date Received: 06/10/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	1.22		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 01:29	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-13

Date Collected: 06/08/10 15:10

Client ID: GP-10-04-044-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	3.37		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 01:35	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Lab Number:** L1008691**Project Number:** AC001**Report Date:** 06/26/10**SAMPLE RESULTS****Lab ID:** L1008691-14**Date Collected:** 06/08/10 15:50**Client ID:** GP-10-04-054-U**Date Received:** 06/10/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	13.7		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 01:41	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-15

Date Collected: 06/08/10 16:25

Client ID: GP-10-04-064-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	8.02		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 01:47	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-16

Date Collected: 06/08/10 17:15

Client ID: GP-10-04-074-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	24.3		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 01:53	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1008691**Report Date:** 06/26/10**SAMPLE RESULTS****Lab ID:** L1008691-17**Client ID:** GP-10-04-084-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 06/08/10 17:50**Date Received:** 06/10/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	26.7		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 02:11	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-18
Client ID: GP-10-04-094-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/08/10 18:30
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	214		ug/l	5.00	1.13	10	06/11/10 10:30	06/17/10 02:17	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-19

Client ID: GP-10-05-015-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/09/10 09:58

Date Received: 06/10/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	2.08		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 02:23	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-20
Client ID: GP-10-05-025-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 10:25
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	1.02	J	ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 02:29	EPA 3005A	1.6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-21
Client ID: GP-10-05-035-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 10:53
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	130		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 02:42	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-22
Client ID: GP-10-05-045-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 11:24
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	86.4		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 03:06	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Lab Number:** L1008691**Project Number:** AC001**Report Date:** 06/26/10**SAMPLE RESULTS**

Lab ID: L1008691-23
Client ID: GP-10-05A-029-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 13:20
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.930		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 03:24	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-24

Date Collected: 06/09/10 14:05

Client ID: GP-10-05A-039-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	13.0		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 03:30	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1008691**Report Date:** 06/26/10**SAMPLE RESULTS**

Lab ID: L1008691-25
Client ID: GP-10-05A-049-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/09/10 14:55
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	4.86		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 03:36	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-26
 Client ID: GP-10-05A-059-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 15:57
 Date Received: 06/10/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	3.48		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 03:42	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-27
 Client ID: GP-10-05A-069-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 17:15
 Date Received: 06/10/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	29.8		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 03:48	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-28

Date Collected: 06/09/10 18:45

Client ID: GP-10-05A-079-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	65.0		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 03:54	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-29

Date Collected: 06/09/10 19:20

Client ID: GP-10-05A-089-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	24.5		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 04:00	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-30
 Client ID: GP-10-05A-099-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/09/10 19:40
 Date Received: 06/10/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	364		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 04:06	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002**Lab Number:** L1008691**Project Number:** AC001**Report Date:** 06/26/10**SAMPLE RESULTS****Lab ID:** L1008691-31**Date Collected:** 06/09/10 20:10**Client ID:** GP-10-05A-109-U**Date Received:** 06/10/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	911		ug/l	10.0	2.26	20	06/11/10 10:30	06/17/10 04:12	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1008691
Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-32
Client ID: GP-10-03-029-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 06/10/10 08:25
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.890		ug/l	0.500	0.113	1	06/11/10 10:30	06/17/10 04:18	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-33

Date Collected: 06/10/10 09:20

Client ID: GP-10-03-039-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	6.79		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 04:36	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1008691**Report Date:** 06/26/10**SAMPLE RESULTS****Lab ID:** L1008691-34**Client ID:** GP-10-03-049-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 06/10/10 10:00**Date Received:** 06/10/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	14.6		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 04:42	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-35

Date Collected: 06/10/10 10:40

Client ID: GP-10-03-059-U

Date Received: 06/10/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	42.1		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 04:48	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID: L1008691-36
 Client ID: GP-10-03-069-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 06/10/10 11:20
 Date Received: 06/10/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	8.74		ug/l	2.50	0.565	5	06/11/10 10:30	06/17/10 04:54	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG417430-1									
Arsenic, Total	ND	ug/l	0.500	0.113	1	06/11/10 10:30	06/16/10 21:23	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 21-36 Batch: WG417431-1									
Arsenic, Total	ND	ug/l	0.500	0.113	1	06/11/10 10:30	06/16/10 21:04	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG417430-2								
Arsenic, Total	98		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 21-36 Batch: WG417431-2								
Arsenic, Total	102		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG417430-4 QC Sample: L1008691-01 Client ID: GP-10-02-024-U												
Arsenic, Total	ND	120	135	112	-	-	-	-	80-120	-	-	20
Total Metals - Westborough Lab Associated sample(s): 21-36 QC Batch ID: WG417431-4 QC Sample: L1008691-21 Client ID: GP-10-05-035-U												
Arsenic, Total	130	120	260	108	-	-	-	-	80-120	-	-	20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1008691

Report Date: 06/26/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG417430-3 QC Sample: L1008691-01 Client ID: GP-10-02-024-U						
Arsenic, Total	0.41J	0.38J	ug/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 21-36 QC Batch ID: WG417431-3 QC Sample: L1008691-21 Client ID: GP-10-05-035-U						
Arsenic, Total	130.	128	ug/l	2		20

Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Present/Intact

D Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008691-01A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-02A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-03A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-04A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-05A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-06A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-07A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-08A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-09A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-10A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-11A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-12A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-13A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-14A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-15A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-16A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-17A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-18A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-19A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-20A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-21A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-22A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-23A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-24A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-25A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-26A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008691-27A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-28A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-29A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-30A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-31A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-32A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-33A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-34A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-35A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-36A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	-Spectra identified as "Aldol Condensation Product".
B	-The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	-Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	-The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	-The RPD between the results for the two columns exceeds the method-specified criteria.
Q	-The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	-Analytical results are from sample re-analysis.
RE	-Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

Data Qualifiers

- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1008691

Project Number: AC001

Report Date: 06/26/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. **Organic Parameters:** 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ti)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Ti,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Coli, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0, *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 8020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.**

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1, NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

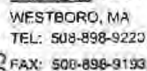
Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



PAGE 3 OF 4

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sovereign Consulting Inc
Address: 905B South Main St
Mansfield, MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmebain@seucon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: SHL Task 002

Project Location: Deer's MA

Project #: AF001

Project Manager: *Phil McBain*

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1/1/2000 Time:

Date Rec'd in Lab:

ALPHA Job #

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #

Regulatory Requirements/Report Limits

State /Fed Program

Criteria

SAMPLE HANDLING

Filtration

☐ Done☒ Not needed☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	As Collected	Lab Use Only	Sample Specific Comments (Please specify below)	IES
		Date	Time						
8691-21	GP-10-05-035-U	6/4/10	1053	GW	PJV	✓			
22	GP-10-05-045-U	6/4/10	1124	GW	PJV	✓			
23	GP-10-05A-029-U	6/4/10	1320	GW	PJV	✓			
24	GP-10-05A-039-U	6/4/10	1405	GW	PJV	✓			
25	GP-10-05A-049-U	6/4/10	1455	GW	PJV	✓			
26	GP-10-05A-059-U	6/4/10	1557	GW	PJV	✓			
27	GP-10-05A-069-U	6/4/10	1715	GW	PJV	✓			
28	GP-10-05A-079-U	6/4/10	1845	GW	PJV	✓			
29	GP-10-05A-089-U	6/4/10	1920	GW	PJV	✓			
30	GP-10-05A-099-U	6/4/10	1940	GW	PJV	✓			

Container Type

F

Preservative

7

Relinquished By:

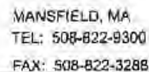
Date/Time

Received By:

Date/Time

FORM NO: 01-01 (rev 14-OCT-07)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.



PAGE 4 OF 4

6/10/10

L10086a

Billing Information

☐ Same as Client info PO #:☐ Add'l Deliverables

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 6/17/10 Time:

Email: priyabhai@sourcefire.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done☒ Not needed

☐ Lab to do

Preservation

☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type P

Preservative /

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number: L1011707
Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048
ATTN: Phil McBain
Phone: (508) 339-3200
Project Name: SHL TASK 0002
Project Number: AC001
Report Date: 08/10/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011707
Report Date: 08/10/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011707-01	GP-10-17-009-F	DEVENS, MA	08/02/10 10:33
L1011707-02	GP-10-17-009-U	DEVENS, MA	08/02/10 10:33
L1011707-03	GP-10-17-019-F	DEVENS, MA	08/02/10 11:38
L1011707-04	GP-10-17-019-U	DEVENS, MA	08/02/10 11:38
L1011707-05	GP-10-17-029-F	DEVENS, MA	08/02/10 14:45
L1011707-06	GP-10-17-029-U	DEVENS, MA	08/02/10 14:45
L1011707-07	DUP-080210-F	DEVENS, MA	08/02/10 11:38
L1011707-08	DUP-080210-U	DEVENS, MA	08/02/10 11:38
L1011707-09	RB-080210-U	DEVENS, MA	08/02/10 15:30

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011707
Report Date: 08/10/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Dissolved Inorganic Carbon will be reported under separate cover.

Metals

The WG425880-3/-4 MS/MSD recoveries, performed on L1011707-02, are above the acceptance criteria for Iron (125%/121%). A post digestion spike was performed with an acceptable recovery of 86%. The parent sample (L1011707-02) is J-qualified for Iron.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011707
Report Date: 08/10/10

Case Narrative (continued)

Solids, Total Suspended

A Laboratory Duplicate was performed in lieu of the requested Matrix Spike.

The WG425733-2 Laboratory Duplicate RPD (93%), performed on L1011707-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate (different containers).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/10/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-01
 Client ID: GP-10-17-009-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/02/10 10:33
 Date Received: 08/02/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.46	J	ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 01:00	EPA 3005A	1,6020A	BM
Iron, Dissolved	1620		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 01:00	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-02

Date Collected: 08/02/10 10:33

Client ID: GP-10-17-009-U

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: None

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.580		ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 02:01	EPA 3005A	1,6020A	BM
Iron, Total	1800	J	ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 02:01	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-03

Client ID: GP-10-17-019-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 11:38

Date Received: 08/02/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.39	J	ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 01:24	EPA 3005A	1,6020A	BM
Iron, Dissolved	1800		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 01:24	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-04

Client ID: GP-10-17-019-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 11:38

Date Received: 08/02/10

Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.780		ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 02:25	EPA 3005A	1,6020A	BM
Iron, Total	1870		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 02:25	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-05

Date Collected: 08/02/10 14:45

Client ID: GP-10-17-029-F

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.25	J	ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 01:30	EPA 3005A	1,6020A	BM
Iron, Dissolved	1240		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 01:30	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011707
Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-06
Client ID: GP-10-17-029-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/02/10 14:45
Date Received: 08/02/10
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.780		ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 02:31	EPA 3005A	1,6020A	BM
Iron, Total	1810		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 02:31	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011707
Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-07
Client ID: DUP-080210-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/02/10 11:38
Date Received: 08/02/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.49	J	ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 01:36	EPA 3005A	1,6020A	BM
Iron, Dissolved	1870		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 01:36	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-08

Date Collected: 08/02/10 11:38

Client ID: DUP-080210-U

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.660		ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 02:37	EPA 3005A	1,6020A	BM
Iron, Total	1840		ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 02:37	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-09

Client ID: RB-080210-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 15:30

Date Received: 08/02/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/03/10 22:00	08/05/10 02:43	EPA 3005A	1,6020A	BM
Iron, Total	15.2	J	ug/l	50.0	8.41	1	08/03/10 22:00	08/05/10 02:43	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02,04,06,08-09 Batch: WG425880-1									
Arsenic, Total	ND	ug/l	0.500	0.113	1	08/03/10 22:00	08/04/10 21:04	1,6020A	BM
Iron, Total	ND	ug/l	50.0	8.41	1	08/03/10 22:00	08/04/10 21:04	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01,03,05,07 Batch: WG425881-1									
Arsenic, Dissolved	ND	ug/l	0.500	0.113	1	08/03/10 22:00	08/04/10 21:04	1,6020A	BM
Iron, Dissolved	ND	ug/l	50.0	8.41	1	08/03/10 22:00	08/04/10 21:04	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08-09 Batch: WG425880-2								
Arsenic, Total	102				80-120	-		
Iron, Total	105				80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07 Batch: WG425881-2								
Arsenic, Dissolved	102				80-120	-		
Iron, Dissolved	105				80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08-09 QC Batch ID: WG425880-3 WG425880-4 QC Sample: L1011707-02 Client ID: GP-10-17-009-U												
Arsenic, Total	0.580	120	131	109		132	110		80-120	1		20
Iron, Total	1800	1000	3050	125	Q	3010	121	Q	80-120	3		20
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07 QC Batch ID: WG425881-3 WG425881-4 QC Sample: L1011707-01 Client ID: GP-10-17-009-F												
Arsenic, Dissolved	ND	120	131	109		130	108		80-120	1		20
Iron, Dissolved	1620	1000	2800	116		2790	117		80-120	1		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-02

Date Collected: 08/02/10 10:33

Client ID: GP-10-17-009-U

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: None

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	9.8		mg/l	5.0	NA	1	-	08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	2.8		mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-04

Client ID: GP-10-17-019-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 11:38

Date Received: 08/02/10

Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	43		mg/l	5.0	NA	1	-	08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-06

Date Collected: 08/02/10 14:45

Client ID: GP-10-17-029-U

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: None

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	8.5		mg/l	5.0	NA	1	-	08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	1.1		mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-08

Client ID: DUP-080210-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 11:38

Date Received: 08/02/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	11		mg/l	5.0	NA	1	-	08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04,06,08 Batch: WG425733-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1		08/03/10 15:00	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 02,04,06,08 Batch: WG426455-1									
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011707
Report Date: 08/10/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 Batch: WG426455-2								
Dissolved Organic Carbon	98				90-110			

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG426455-3 QC Sample: L1011707-02 Client ID: GP-10-17-009-U												
Dissolved Organic Carbon	2.8	4	6.9	101	-	-	-	-	79-120	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG425733-2 QC Sample: L1011707-02 Client ID: GP-10-17-009-U						
Solids, Total Suspended	9.8	27	mg/l	93	Q	32
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG426455-4 QC Sample: L1011707-02 Client ID: GP-10-17-009-U						
Dissolved Organic Carbon	2.8	2.8	mg/l	0		20

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A

Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011707-01A	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011707-01B	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011707-02A	Plastic 1000ml unpreserved	A	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-02C	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02D	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02E	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011707-02G	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02H	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02I	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02J	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02L	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	-
L1011707-02M	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	-
L1011707-02N	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	-
L1011707-02O	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	-
L1011707-02P	Plastic 1000ml unpreserved	A	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-02W	Amber 250ml unpreserved	A	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02X	Amber 250ml unpreserved	A	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-03A	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011707-04A	Plastic 1000ml unpreserved	A	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-04B	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-04C	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-04D	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011707-04X	Amber 250ml unpreserved	A	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-05A	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707

Report Date: 08/10/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011707-06A	Plastic 1000ml unpreserved	A	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-06B	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-06C	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-06D	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011707-06X	Amber 250ml unpreserved	A	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-07A	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011707-08A	Plastic 1000ml unpreserved	A	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-08B	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-08C	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-08D	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011707-08X	Amber 250ml unpreserved	A	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-09A	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)

*Values in parentheses indicate holding time in days



Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1011707

Project Number: AC001

Report Date: 08/10/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform - Colilert (SM9223 P/A), E. Coli. - Colilert (SM9223 P/A), HPC - Pour Plate (SM9215B), Fecal Coliform - MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (EPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform - MF mEndo (SM9222B), Total Coliform - MTF (SM9221B), HPC - Pour Plate (SM9215B), Fecal Coliform - MF m-FC (SM9222D), Fecal Coliform - A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (EPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-

BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N,

SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colliert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄⁻E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 CF

Date Rec'd in Lab: 8/2/10

ALPHA Job # L161.07

Client Information

Client: Sovereign Consulting Inc
Address: 905B South Main St
Mansfield MA 02408
Phone: 508-339-3200
Fax: 508-339-3248
Email: pmc@sovereign.com

Project Information

Project Name: SHL
Project Location: Ayo Ma
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/19/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL ERR
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 20 = Closed

*As noted w/ F = F/kerol
Metals = As + Fe

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TSS	DOC	Total H	Diss	(Please specify below)										Sample Specific Comments	L E S				
		Date	Time																						
11707-01	GP-10-07-009-F	8/2/10	1033	GW	EEF				✓													MS/MSD	1		
02	GP-10-07-009-U	8/2/10	1033	GW	EEF	✓	✓	✓															MS/MSD	3	
03	GP-10-07-019-F	8/2/10	1138	GW	JAR				✓																1
04	GP-10-07-019-U	8/2/10	1138	GW	JAR	✓	✓	✓																	3
05	GP-10-07-029-F	8/2/10	1445	GW	EEF				✓																1
06	GP-10-07-029-U	8/2/10	1445	GW	EEF	✓	✓	✓																	3
07	DUP-080210-F	8/2/10	1138	GW	JAR				✓																1
08	DUP-080210-U	8/2/10	1138	GW	JAR	✓	✓	✓																	3
09	RB-D80210-U	8/2/10	1530	GW	CMH				✓																1

PLEASE ANSWER QUESTIONS ABOVE!

Container Type P A P P
Preservative A A C C

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab

8/2/10

ALPHA Job #

161707

Client Information

Client: Sovereign Consulting Inc
Address: 905 B South Main St
Mansfield MA 02408
Phone: 508-339-3200
Fax: 508-339-3248
Email: pmc@sovereign.com

Project Information

Project Name: SHL
Project Location: Aye Ma
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

8/9/10

Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EPR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 20 = closed

*As noted w/ F = Filtered
Metals = As + Fe

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	(Please specify below)										Sample Specific Comments	TOTAL # BOTTLES		
		Date	Time			TSS	DOC	Total H	Diss										
1707-01	GP-10-07-009-F	8/2/10	1033	GW	EEF					✓								MS/MSD	1
02	GP-10-07-009-U	8/2/10	1033	GW	EEF	✓	✓	✓										MS/MSD	3
03	GP-10-07-019-F	8/2/10	1138	GW	JAR					✓								Run MS on TSS	1
04	GP-10-07-019-U	8/2/10	1138	GW	JAR	✓	✓	✓										only	3
05	GP-10-07-029-F	8/2/10	1445	GW	EEF					✓									1
06	GP-10-07-029-U	8/2/10	1445	GW	EEF	✓	✓	✓											3
07	DUP-080210-F	8/2/10	1138	GW	JAR					✓									1
08	DUP-080210-U	8/2/10	1138	GW	JAR	✓	✓	✓											3
09	RB-080210-U	8/2/10	1530	GW	CMH					✓									1

PLEASE ANSWER QUESTIONS ABOVE!

Container Type

P A P P

Preservative

A A C C

IS YOUR PROJECT
MA MCP or CT RCP?

Requisitioned By:

Date/Time

Received By:

Date/Time



ANALYTICAL REPORT

Lab Number: L1011792

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

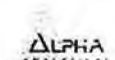
Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/17/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011792-01	GP-10-11-039-F	DEVENS, MA	08/03/10 11:50
L1011792-02	GP-10-11-039-U	DEVENS, MA	08/03/10 11:50
L1011792-03	GP-10-11-049-F	DEVENS, MA	08/03/10 14:25
L1011792-04	GP-10-11-049-U	DEVENS, MA	08/03/10 14:25
L1011792-05	DUP3-080310-F	DEVENS, MA	08/03/10 14:25
L1011792-06	DUP3-080310-U	DEVENS, MA	08/03/10 14:25
L1011792-07	RB2-080310-U	DEVENS, MA	08/03/10 17:15

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Dissolved Inorganic Carbon results will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

The samples for Dissolved Organic Carbon were originally logged and filtered with SDG L1011794.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

Case Narrative (continued)

Dissolved Metals

L1011792-01, -03 and -05 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes. The requested reporting limits were achieved.

The WG425914-3/-4 MS/MSD recoveries for Iron (200%/10%), performed on L1011792-01, are invalid because the sample concentration is greater than four times the spike amount added.

Total Metals

L1011792-02, -04 and -06 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes. The requested reporting limits were achieved.

The WG425910-3/-4 MS/MSD recoveries for Iron (20%/40%), performed on L1011792-02, are invalid because the sample concentration is greater than four times the spike amount added.

Nitrogen, Nitrate

L1011792-02 was analyzed with the method required holding time exceeded.

Solids, Total Suspended

L1011792-02 could not be analyzed in duplicate, as requested by the client, due to limited sample volume available for analysis.

L1011792-04 has an elevated detection limit due to the dilution required by the elevated concentration present in the sample.

Alkalinity, Total

The WG426002-3 MS recovery (54%), performed on L1011792-02, is below the acceptance criteria. This has been attributed to matrix interference.

Sulfide

The WG426783-3 MS recovery (71%), performed on L1011792-02, is below the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

Case Narrative (continued)


Dissolved Organic Carbon

L1011792-02 was analyzed in duplicate as requested by the client; however, the matrix spike was performed on L1011792-04 due to limited sample volume available for analysis.

WG427141-1: A filter blank is not reported for this batch due to limited volume available for analysis. (The filtered blank volume was utilized for the Dissolved Inorganic Carbon analysis).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/17/10

METALS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-01

Client ID: GP-10-11-039-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/03/10 11:50

Date Received: 08/03/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	264		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 03:07	EPA 3005A	1,6020A	BM
Iron, Dissolved	66400		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 03:07	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-02
 Client ID: GP-10-11-039-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 11:50
 Date Received: 08/03/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	443		ug/l	40.0	7.64	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Arsenic, Total	263		ug/l	2.00	0.452	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Calcium, Total	19000		ug/l	400	50.6	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Chromium, Total	2.32		ug/l	2.00	0.744	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Iron, Total	67200		ug/l	200	33.6	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Lead, Total	0.74	J	ug/l	2.00	0.200	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Magnesium, Total	2610		ug/l	400	16.4	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Manganese, Total	2120		ug/l	4.00	0.544	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Nickel, Total	9.34		ug/l	2.00	0.720	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Potassium, Total	3070		ug/l	400	72.6	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM
Sodium, Total	8650		ug/l	400	72.8	4	08/04/10 03:15	08/04/10 22:35	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-03

Date Collected: 08/03/10 14:25

Client ID: GP-10-11-049-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	375		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 03:31	EPA 3005A	1,6020A	BM
Iron, Dissolved	49300		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 03:31	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-04
 Client ID: GP-10-11-049-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 14:25
 Date Received: 08/03/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	44400		ug/l	40.0	7.64	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Arsenic, Total	688		ug/l	2.00	0.452	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Calcium, Total	26500		ug/l	400	50.6	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Chromium, Total	271		ug/l	2.00	0.744	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Iron, Total	164000		ug/l	200	33.6	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Lead, Total	68.3		ug/l	2.00	0.200	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Magnesium, Total	13200		ug/l	400	16.4	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Manganese, Total	5240		ug/l	4.00	0.544	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Nickel, Total	134		ug/l	2.00	0.720	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Potassium, Total	11900		ug/l	400	72.6	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM
Sodium, Total	16600		ug/l	400	72.8	4	08/04/10 03:15	08/04/10 22:59	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-05

Date Collected: 08/03/10 14:25

Client ID: DUP3-080310-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	396		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 03:37	EPA 3005A	1,6020A	BM
Iron, Dissolved	52200		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 03:37	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-06
 Client ID: DUP3-080310-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 14:25
 Date Received: 08/03/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	35200		ug/l	40.0	7.64	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Arsenic, Total	641		ug/l	2.00	0.452	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Calcium, Total	26100		ug/l	400	50.6	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Chromium, Total	254		ug/l	2.00	0.744	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Iron, Total	149000		ug/l	200	33.6	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Lead, Total	58.0		ug/l	2.00	0.200	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Magnesium, Total	9680		ug/l	400	16.4	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Manganese, Total	5260		ug/l	4.00	0.544	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Nickel, Total	112		ug/l	2.00	0.720	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Potassium, Total	10700		ug/l	400	72.6	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM
Sodium, Total	16000		ug/l	400	72.8	4	08/04/10 03:15	08/04/10 23:05	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-07
Client ID: RB2-080310-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/03/10 17:15
Date Received: 08/03/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4.07	J	ug/l	10.0	1.91	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Arsenic, Total	0.17	J	ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Calcium, Total	19	J	ug/l	100	12.6	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Chromium, Total	0.22	J	ug/l	0.500	0.186	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Iron, Total	9.89	J	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Manganese, Total	0.47	J	ug/l	1.00	0.136	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM
Sodium, Total	ND		ug/l	100	18.2	1	08/04/10 03:15	08/04/10 23:11	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02,04,06-07 Batch: WG425910-1										
Aluminum, Total	2.91	J	ug/l	10.0	1.91	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Calcium, Total	ND		ug/l	100	12.6	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Chromium, Total	ND		ug/l	0.500	0.186	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Iron, Total	9.87	J	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Manganese, Total	ND		ug/l	1.00	0.136	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Sodium, Total	ND		ug/l	100	18.2	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01,03,05 Batch: WG425914-1										
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:22	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:22	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792

Report Date: 08/17/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06-07 Batch: WG425910-2								
Aluminum, Total	93		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Calcium, Total	106		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Iron, Total	105		-		80-120	-		
Lead, Total	100		-		80-120	-		
Magnesium, Total	102		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	101		-		80-120	-		
Sodium, Total	101		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05 Batch: WG425914-2								
Arsenic, Dissolved	99		-		80-120	-		
Iron, Dissolved	104		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792

Report Date: 08/17/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06-07 QC Batch ID: WG425910-3 WG425910-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Aluminum, Total	443	2000	2300	93		2260	91		80-120	2		20
Arsenic, Total	263	120	390	106		386	102		80-120	1		20
Calcium, Total	19000	10000	29500	105		29000	100		80-120	2		20
Chromium, Total	2.32	200	193	95		194	96		80-120	1		20
Iron, Total	67200	1000	67400	20		67600	40		80-120	0		20
Lead, Total	ND	510	520	102		513	100		80-120	1		20
Magnesium, Total	2610	10000	12800	102		12600	100		80-120	2		20
Manganese, Total	2120	500	2570	90		2600	96		80-120	1		20
Nickel, Total	9.34	500	518	102		519	102		80-120	0		20
Potassium, Total	3070	10000	13200	101		13200	101		80-120	0		20
Sodium, Total	8650	10000	18600	100		18600	100		80-120	0		20

Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05 QC Batch ID: WG425914-3 WG425914-4 QC Sample: L1011792-01 Client ID: GP-10-11-039-F

Arsenic, Dissolved	264	120	394	108		389	104		80-120	1		20
Iron, Dissolved	66400	1000	68400	200		66500	10		80-120	3		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-02

Date Collected: 08/03/10 11:50

Client ID: GP-10-11-039-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	170		mg CaCO ₃ /L	2.0	NA	1	-	08/04/10 08:50	30,2320B	SD
Solids, Total Suspended	200		mg/l	5.0	NA	1	-	08/09/10 18:00	30,2540D	DW
Nitrogen, Ammonia	2.29		mg/l	0.075	0.017	1	08/04/10 15:05	08/04/10 22:29	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/03/10 22:23	30,4500NO ₂ -B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S ₂ -AD	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	08/06/10 15:23	44,410.4	DW
Dissolved Organic Carbon	3.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	21		mg/l	0.50	0.07	1	-	08/05/10 13:59	44,300.0	AU
Nitrogen, Nitrate	0.031	J	mg/l	0.05	0.01	1	-	08/05/10 13:59	44,300.0	AU
Sulfate	6.5		mg/l	1.0	0.12	1	-	08/13/10 21:22	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

SAMPLE RESULTS

Lab ID: L1011792-04

Date Collected: 08/03/10 14:25

Client ID: GP-10-11-049-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	180		mg CaCO3/L	2.0	NA	1	-	08/04/10 08:50	30,2320B	SD
Solids, Total Suspended	7700		mg/l	50	NA	10	-	08/09/10 18:00	30,2540D	DW
Nitrogen, Ammonia	3.36		mg/l	0.075	0.017	1	08/04/10 15:05	08/04/10 22:32	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/03/10 22:24	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	160		mg/l	20	7.0	1	-	08/06/10 15:28	44,410.4	DW
Dissolved Organic Carbon	2.8		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	13		mg/l	0.50	0.07	1	-	08/05/10 13:11	44,300.0	AU
Nitrogen, Nitrate	0.046	J	mg/l	0.05	0.01	1	-	08/05/10 13:11	44,300.0	AU
Sulfate	19		mg/l	1.0	0.12	1	-	08/13/10 20:34	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG425875-2									
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	-	08/03/10 22:22	30,4500NO2-B	DD
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG426002-1									
Alkalinity, Total	ND	mg CaCO3/L	2.0	NA	1	-	08/04/10 08:50	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG426067-1									
Nitrogen, Ammonia	ND	mg/l	0.075	0.017	1	08/04/10 15:05	08/04/10 22:26	30,4500NH3-BH	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 02,04 Batch: WG426316-1									
Chloride	ND	mg/l	0.50	0.07	1	-	08/05/10 12:11	44,300.0	AU
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	-	08/05/10 12:11	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG426358-1									
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	-	08/06/10 15:21	44,410.4	DW
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG426636-1									
solids, Total Suspended	ND	mg/l	5.0	NA	1	-	08/09/10 18:00	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG426783-1									
Sulfide	ND	mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG427141-1									
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 02,04 Batch: WG427653-1									
Sulfate	ND	mg/l	1.0	0.12	1	-	08/13/10 17:22	44,300.0	AU

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792

Report Date: 08/17/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG425875-1								
Nitrogen, Nitrite	100		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG426002-2								
Alkalinity, Total	107		-		80-115	-		4
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG426067-2								
Nitrogen, Ammonia	97		-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02,04 Batch: WG426316-2								
Chloride	95		-		90-110	-		
Nitrogen, Nitrate	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG426358-2								
Chemical Oxygen Demand	95		-		95-105	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG426783-2								
Sulfide	87		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG427141-2								
Dissolved Organic Carbon	98		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02,04 Batch: WG427653-2					
Sulfate	100	-	90-110	-	

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG425875-3 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Nitrogen, Nitrite	ND	0.1	0.10	100	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426002-3 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Alkalinity, Total	170	100	220	54	Q	-	-	-	86-116	-	-	4
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426067-3 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Nitrogen, Ammonia	2.29	4	5.88	90	-	-	-	-	80-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426316-3 WG426316-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Chloride	21	4	26	125	-	25	100	-	40-151	4	-	18
Nitrogen, Nitrate	ND	0.4	0.39	98	-	0.39	98	-	80-122	0	-	15
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426358-3 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Chemical Oxygen Demand	ND	238	240	102	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426783-3 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Sulfide	ND	0.24	0.17	71	Q	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG427141-3 QC Sample: L1011792-04 Client ID: GP-10-11-049-U												
Dissolved Organic Carbon	2.8	4	6.7	98	-	-	-	-	79-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG427653-3 WG427653-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U												
Sulfate	6.5	8	15	106	-	15	106	-	60-140	0	-	20

Project Name: SHL TASK 0002
Project Number: AC001

Lab Duplicate Analysis
 Batch Quality Control

Lab Number: L1011792
Report Date: 08/17/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG425875-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426002-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Alkalinity, Total	170	170	mg CaCO3/L	0		4
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426067-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Nitrogen, Ammonia	2.29	2.08	mg/l	10		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426316-5 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Chloride	21	22	mg/l	5		18
Nitrogen, Nitrate	0.031J	0.031J	mg/l	NC		15
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426358-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426636-2 QC Sample: L1011792-04 Client ID: GP-10-11-049-U						
Solids, Total Suspended	7700	7200	mg/l	7		32
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG426783-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Sulfide	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG427141-4 QC Sample: L1011792-02 Client ID: GP-10-11-039-U						
Dissolved Organic Carbon	3.6	3.4	mg/l	6		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1011792

Report Date: 08/17/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab	Associated sample(s): 02,04	QC Batch ID: WG427653-5	QC Sample: L1011792-02	Client ID: GP-10-	
11-039-U					
Sulfate	6.5	6.6	mg/l	2	20

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011792-01A	Plastic 250ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011792-01B	Plastic 250ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011792-02A	Plastic 1000ml unpreserved	A	7	3	Y	Present/Intact	TSS-2540(7)
L1011792-02B	Plastic 500ml unpreserved	A	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011792-02C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011792-02D	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011792-02E	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011792-02F	Plastic 250ml unpreserved	A	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1011792-02G	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-02H	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-02I	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-02J	Plastic 250ml unpreserved	A	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1011792-03A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011792-04A	Plastic 1000ml unpreserved	A	7	3	Y	Present/Intact	TSS-2540(7)

*Values in parentheses indicate holding time in days



Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011792-04B	Plastic 500ml unpreserved	A	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011792-04C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011792-04D	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011792-04F	Plastic 250ml unpreserved	A	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1011792-04G	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-04H	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-04I	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-04J	Plastic 250ml unpreserved	A	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1011792-05A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011792-06A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011792-07A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	Spectra identified as "Aldol Condensation Product".
B	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	The RPD between the results for the two columns exceeds the method-specified criteria.
Q	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1011792

Project Number: AC001

Report Date: 08/17/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011792
Report Date: 08/17/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846, Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. *NELAP Accredited Solid Waste/Soil.*

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-8220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/3/10

ALPHA Job #

L1011792

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield, MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmc@sovereign.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG #22 - Closed

* Done as noted - F=F/100

Metals = As, Fe, Mn, Al, Cr, Pb, Ni, Hg, Cu, K, Mo

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: ACOU1

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ RUSH (only confirmed if pre-approved)

Date Due: 8/10/10 Time:

Report Information - Data Deliverables

☐ FAX

☒ EMAIL EPR

☐ ADEX

☐ Add'l Deliverables

Billing Information

☐ Same as Client Info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☐ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS										SAMPLE HANDLING	
Cl, SO ₄ , NO ₃	NO ₂	Alk	Mn, COD	SO ₄ Pb	TSS	DIC + DIC	Total Metals	Diss Metals (As, Fe)			
										Filtration _____	
										<input checked="" type="checkbox"/> Done x	
										<input type="checkbox"/> Not needed	
										<input type="checkbox"/> Lab to do	
										Preservation	
										<input type="checkbox"/> Lab to do	
										(Please specify below)	
										Sample Specific Comments	
✓	✓	✓	✓	✓	✓	✓	✓	✓	MS/MSD	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	ME/MSD	11	
✓	✓	✓	✓	✓	✓	✓	✓	✓		1	
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SAMPLE HANDLING

Filtration

☒ Done ☒ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

Container Type

P P P P P P A P P

Preservative

A A A D H E A A C C

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number: L1011794

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/10/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011794
Report Date: 08/10/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011794-01	GP-10-11-039-U	DEVENS, MA	08/03/10 11:50
L1011794-02	GP-10-11-049-U	DEVENS, MA	08/03/10 14:25

Project Name: SHL TASK 0002

Lab Number: L1011794

Project Number: AC001

Report Date: 08/10/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the results for the Dissolved Inorganic Carbon analysis. The results for all other analyses will be issued under separate cover.


Dissolved Inorganic Carbon

L1011794-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

WG426758: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD. The Laboratory Duplicate was performed on L1011794-02 due to insufficient sample volume for L1011794-01.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/10/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011794**Report Date:** 08/10/10**SAMPLE RESULTS****Lab ID:** L1011794-01**Client ID:** GP-10-11-039-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 08/03/10 11:50**Date Received:** 08/03/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	63		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011794
Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011794-02
Client ID: GP-10-11-049-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/03/10 14:25
Date Received: 08/03/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	52		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011794

Project Number: AC001

Report Date: 08/10/10

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-02 Batch: WG426758-1									
Dissolved Inorganic Carbon	ND	mg/l	1.0	—	1	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Lab Control Sample Analysis
Batch Quality Control**Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011794**Report Date:** 08/10/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Associated sample(s): 01-02 Batch: WG426758-2

Dissolved Inorganic Carbon

110

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1011794

Report Date: 08/10/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-02 QC Batch ID: WG426758-3 QC Sample: L1011794-02 Client ID: GP-10-11-049-U						
Dissolved Inorganic Carbon	52	51	mg/l	2		

Project Name: SHL TASK 0002

Lab Number: L1011794

Project Number: AC001

Report Date: 08/10/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011794-01A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01W	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01X	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01Y	Vial H2SO4 preserved split	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01Z	Vial H2SO4 preserved split	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-02A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-02Y	Vial H2SO4 preserved split	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-02Z	Vial H2SO4 preserved split	A	N/A	3	Y	Present/Intact	SPECWC()

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011794

Project Number: AC001

Report Date: 08/10/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

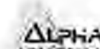
Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	Spectra identified as "Aldol Condensation Product".
B	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	The RPD between the results for the two columns exceeds the method-specified criteria.
Q	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: SHL TASK 0002

Lab Number: L1011794

Project Number: AC001

Report Date: 08/10/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011794
Report Date: 08/10/10

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574 NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3. *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Client Information

Client: Sovereign Consulting Inc.
Address: 905 B S. Main St
Mansfield, MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: pmc@scs.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG #22 - Closed

* Done as noted - F = F/ton

Metals = As, Fe, Mn, Al, Co, Pb, Ni, Ag, Cu, K, Mg

Project Information

Project Name: SHL
Project Location: Ayer MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 9/10/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EPR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State / Fed Program Criteria SEG QAPP

MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Cl ⁻	NO ₂ ⁻	Alk	Mn	Sul	TSS	DIC	TOC	DissO	(Please specify below)		Total # BOTTLES
		Date	Time												Sample Specific Comments		
11792	GP-10-11-039-F	8/3/10	1150	GW	JJC									✓		MS/MSD	2
11794	GP-10-11-039-U	8/3/10	1150	GW	JJC	✓	✓	✓	✓	✓	✓	✓	✓			ME/MSD	11
	GP-10-11-049-F	8/3/10	1425	GW	JJC									✓			1
2	GP-10-11-049-U	8/3/10	1425	GW	JJC	✓	✓	✓	✓	✓	✓	✓	✓				10
	DUP3-080310-F	8/3/10	1425	GW	JJC									✓			1
	DUP3-080310-U	8/3/10	1425	GW	JJC								✓				1
	RB2-080310-U	8/3/10	1715	GW	JJC								✓				1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type

Preservative

P P P P P P A P P

A A A D H A A C C

Relinquished By:

Date/Time

Received By:

Date/Time



ANALYTICAL REPORT

Lab Number: L1011804

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/10/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

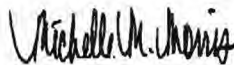
Lab Number: L1011804
Report Date: 08/10/10

Case Narrative (continued)

L1011804-09 has an elevated detection limit due to the dilution required by the sample matrix.
WG426758 and WG426927: An LCS and Laboratory Duplicate were performed in lieu of an MS/MSD.
The Filter Blank was reported with the WG426758 sample batch.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/10/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011804

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-01

Client ID: GP-10-17-039-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 15:36

Date Received: 08/03/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	72		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011804
Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-02
Client ID: GP-10-17-049-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/02/10 16:24
Date Received: 08/03/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	72		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-03

Date Collected: 08/02/10 17:16

Client ID: GP-10-17-056-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	77		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW



Project Name: SHL TASK 0002**Lab Number:** L1011804**Project Number:** AC001**Report Date:** 08/10/10**SAMPLE RESULTS****Lab ID:** L1011804-04**Date Collected:** 08/02/10 18:35**Client ID:** GP-10-18-007-U**Date Received:** 08/03/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	24		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-05

Date Collected: 08/03/10 08:30

Client ID: GP-10-18-017-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	32		mg/l	20	—	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002**Lab Number:** L1011804**Project Number:** AC001**Report Date:** 08/10/10**SAMPLE RESULTS****Lab ID:** L1011804-06**Date Collected:** 08/03/10 09:28**Client ID:** GP-10-18-027-U**Date Received:** 08/03/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	76		mg/l	20	--	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW



Project Name: SHL TASK 0002**Lab Number:** L1011804**Project Number:** AC001**Report Date:** 08/10/10**SAMPLE RESULTS****Lab ID:** L1011804-07**Date Collected:** 08/03/10 10:25**Client ID:** GP-10-18-037-U**Date Received:** 08/03/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	57		mg/l	20	--	20	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-08

Date Collected: 08/03/10 11:30

Client ID: GP-10-18-047-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	98		mg/l	20	--	20	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-09

Date Collected: 08/03/10 14:09

Client ID: GP-10-19-009-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	6.4		mg/l	5.0	--	5	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011804-10

Date Collected: 08/03/10 15:00

Client ID: GP-10-19-019 U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	26		mg/l	20	--	20	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-06 Batch: WG426758-1									
Dissolved Inorganic Carbon	ND	mg/l	1.0	--	1	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW
General Chemistry for sample(s): 07-10 Batch: WG426927-1									
Dissolved Inorganic Carbon	ND	mg/l	1.0	--	1	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW

Lab Control Sample Analysis
Batch Quality Control**Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011804**Report Date:** 08/10/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Associated sample(s): 01-06 Batch: WG426758-2								
Dissolved Inorganic Carbon	110							
Associated sample(s): 07-10 Batch: WG426927-2								
Dissolved Inorganic Carbon	98							

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1011804

Report Date: 08/10/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-06	QC Batch ID: WG426758-3	QC Sample: L1011794-02	Client ID: DUP Sample			
Dissolved Inorganic Carbon	52	51	mg/l	2		
Associated sample(s): 07-10	QC Batch ID: WG426927-3	QC Sample: L1011692-36	Client ID: DUP Sample			
Dissolved Inorganic Carbon	62	53	mg/l	16		

Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011804-01A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-01W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-01X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-01Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-01Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-02A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-02W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-02X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-02Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-02Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-03A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-03W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-03X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-03Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-03Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-04A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-04W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-04X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-04Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-04Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-05A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-05W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-05X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-05Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-05Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-06A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-06W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011804

Report Date: 08/10/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011804-06X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-06Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-06Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()

Container Comments

L1011804-07Z

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: SHL TASK 0002

Lab Number: L1011804

Project Number: AC001

Report Date: 08/10/10

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. *NELAP Accredited Solid Waste/Soil.*

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. *Organic Parameters:* Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). *Microbiology Parameters:* Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. *Organic Parameters:* PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. *Microbiology Parameters:* Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. *Organic Parameters:* PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. *Organic Parameters:* 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. *Organic Parameters:* 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.***Drinking Water***

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N, SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



CHAIN OF CUSTODY

PAGE 1 OF 3

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9183

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sovereign Consulting Inc
Address: 905 B. Main Street
Mansfield MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: p.mcbain@scvcon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 21 - Closed

* Done as noted F=Filtered
metals = As, Fe

Project Information

Project Name: SHL
Project Location: Ayer MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/10/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	SAMPLE HANDLING										TOTAL # BOTTLES	
	Filtration _____ <input checked="" type="checkbox"/> Done * <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation _____ <input type="checkbox"/> Lab to do (Please specify below)											
JSS by SM2540	DOCLDIC SM5310	Total Metals by LORCA	Diss Metals by LORCA									
												</

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TSS	Turb	Total	Diss	(Please specify below)										L E S
		Date	Time							Sample Specific Comments										
	GP-10-17-039-F	8/2/10	1536	GW	JAR				✓										1	
1804	GP-10-17-039-U	8/2/10	1536	GW	JAR	✓	✓	✓											3	
	GP-10-17-049-F	8/2/10	1624	GW	EEF				✓										1	
5	GP-10-17-049-U	8/2/10	1624	GW	EEF	✓	✓	✓											3	
	GP-10-17-056-F	8/2/10	1716	GW	EEF				✓										1	
3	GP-10-17-056-U	8/2/10	1716	GW	EEF	✓	✓	✓											3	
	GP-10-18-007-F	8/2/10	1835	GW	JAR				✓										1	
4	GP-10-18-007-U	8/2/10	1835	GW	JAR	✓	✓	✓											3	
	GP-10-18-017-F	8/3/10	0830	GW	JAR				✓										1	
5	GP-10-18-017-U	8/3/10	0830	GW	JAR	✓	✓	✓											3	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P A P P

Preservative A A C C

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
8/10 1200

[Signature]
8/3/10 1810



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Project Information

Project Name: SHL
Project Location: Ayer MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: 8/10/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Client Information

Client: Sovereign Consulting Inc
Address: 905 B S. Main St
Mansfield, MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: pmcain@swcon

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 21- Cbnd

* Done as Noted F = Filtered
metals = As, Fe

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL # BOTTLES
		Date	Time			TSS	DOC	DOC DIC	TOC	Metals	Dis	Metals					
	GP-10-18-027-F	8/3/10	0928	GW	JAR												1
11804	GP-10-18-027-U	8/3/10	0928	GW	JAR	✓	✓	✓									3
	GP-10-18-037-F	8/3/10	1025	GW	JAR												1
7	GP-10-18-037-U	8/3/10	1025	GW	JAR	✓	✓	✓								MS/MSD	4
	GP-10-18-047-F	8/3/10	1130	GW	JAR											MS/MSD	2
8	GP-10-18-047-U	8/3/10	1130	GW	JAR	✓	✓	✓									3
	GP-10-19-009-F	8/3/10	1409	GW	JAR												1
9	GP-10-19-009-U	8/3/10	1409	GW	JAR	✓	✓	✓									3
	GP-10-19-019-F	8/3/10	1500	GW	JAR												1
10	GP-10-19-019-U	8/3/10	1500	GW	JAR	✓	✓	✓									3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Container Type P A P P

Preservative A A C C

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
8/3/10 1200

8/3/10 1800

[Signature]

17:00 8/3/10

8/3/10 1810



ANALYTICAL REPORT

Lab Number: L1011805

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/20/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011805
Report Date: 08/20/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011805-01	GP-10-17-039-F	DEVENS, MA	08/02/10 15:36
L1011805-02	GP-10-17-039-U	DEVENS, MA	08/02/10 15:36
L1011805-03	GP-10-17-049-F	DEVENS, MA	08/02/10 16:24
L1011805-04	GP-10-17-049-U	DEVENS, MA	08/02/10 16:24
L1011805-05	GP-10-17-056-F	DEVENS, MA	08/02/10 17:16
L1011805-06	GP-10-17-056-U	DEVENS, MA	08/02/10 17:16
L1011805-07	GP-10-18-007-F	DEVENS, MA	08/02/10 18:35
L1011805-08	GP-10-18-007-U	DEVENS, MA	08/02/10 18:35
L1011805-09	GP-10-18-017-F	DEVENS, MA	08/03/10 08:30
L1011805-10	GP-10-18-017-U	DEVENS, MA	08/03/10 08:30
L1011805-11	GP-10-18-027-F	DEVENS, MA	08/03/10 09:28
L1011805-12	GP-10-18-027-U	DEVENS, MA	08/03/10 09:28
L1011805-13	GP-10-18-037-F	DEVENS, MA	08/03/10 10:25
L1011805-14	GP-10-18-037-U	DEVENS, MA	08/03/10 10:25
L1011805-15	GP-10-18-047-F	DEVENS, MA	08/03/10 11:30
L1011805-16	GP-10-18-047-U	DEVENS, MA	08/03/10 11:30
L1011805-17	GP-10-19-009-F	DEVENS, MA	08/03/10 14:09
L1011805-18	GP-10-19-009-U	DEVENS, MA	08/03/10 14:09
L1011805-19	GP-10-19-019-F	DEVENS, MA	08/03/10 15:00
L1011805-20	GP-10-19-019-U	DEVENS, MA	08/03/10 15:00
L1011805-21	DUP-080310-F	DEVENS, MA	08/03/10 09:28
L1011805-22	DUP-080310-U	DEVENS, MA	08/03/10 09:28
L1011805-23	DUP2-080310-F	DEVENS, MA	08/03/10 14:09
L1011805-24	DUP2-080310-U	DEVENS, MA	08/03/10 14:09
L1011805-25	RB-080310-U	DEVENS, MA	08/03/10 15:00

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011805
Report Date: 08/20/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

The Dissolved Inorganic Carbon results will be issued under separate cover.

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

L1011805-02, -04, -06 and -08: The samples were received at the laboratory requiring filtration for Dissolved Organic Carbon; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011805
Report Date: 08/20/10

Case Narrative (continued)

The samples for Dissolved Organic Carbon were originally logged and filtered with SDG L1011804.

Metals

L1011805-01 through -06, -09 through -16, -21 and -22 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target and non-target analytes. The requested reporting limits were achieved.

The WG425912-3/-4 MS/MSD recoveries for Total Iron (0%/40%), performed on L1011805-14, are invalid because the sample concentration is greater than four times the spike amount added.

Solids, Total Suspended

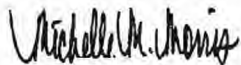
The WG426639-2 Laboratory Duplicate RPD (40%), performed on L1011805-14, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Dissolved Organic Carbon

WG427141-1: No filter blank is reported for this batch due to limited volume available for analysis. (The filtered blank volume was used up analyzing the Dissolved Inorganic Carbon).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/20/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-01

Date Collected: 08/02/10 15:36

Client ID: GP-10-17-039-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	1860		ug/l	5.00	1.13	10	08/04/10 03:15	08/05/10 03:44	EPA 3005A	1,6020A	BM
Iron, Dissolved	60700		ug/l	500	84.1	10	08/04/10 03:15	08/05/10 03:44	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-02
 Client ID: GP-10-17-039-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/02/10 15:36
 Date Received: 08/03/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	1950		ug/l	5.00	1.13	10	08/04/10 03:15	08/05/10 06:09	EPA 3005A	1,6020A	BM
Iron, Total	65200		ug/l	500	84.1	10	08/04/10 03:15	08/05/10 06:09	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-03
 Client ID: GP-10-17-049-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/02/10 16:24
 Date Received: 08/03/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	20.8		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 03:50	EPA 3005A	1,6020A	BM
Iron, Dissolved	5210		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 03:50	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-04

Date Collected: 08/02/10 16:24

Client ID: GP-10-17-049-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	17.7		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 06:15	EPA 3005A	1,6020A	BM
Iron, Total	10100		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 06:15	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-05

Date Collected: 08/02/10 17:16

Client ID: GP-10-17-056-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	5.38		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 03:56	EPA 3005A	1,6020A	BM
Iron, Dissolved	6100		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 03:56	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-06

Date Collected: 08/02/10 17:16

Client ID: GP-10-17-056-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	26.4		ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 06:21	EPA 3005A	1,6020A	BM
Iron, Total	30600		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 06:21	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-07

Client ID: GP-10-18-007-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 18:35

Date Received: 08/03/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.730		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 04:02	EPA 3005A	1,6020A	BM
Iron, Dissolved	1360		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 04:02	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-08

Date Collected: 08/02/10 18:35

Client ID: GP-10-18-007-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.930		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 06:27	EPA 3005A	1,6020A	BM
Iron, Total	1390		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 06:27	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-09
 Client ID: GP-10-18-017-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 08:30
 Date Received: 08/03/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	1.26	J	ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 04:20	EPA 3005A	1,6020A	BM
Iron, Dissolved	857		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 04:20	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-10

Date Collected: 08/03/10 08:30

Client ID: GP-10-18-017-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	1.87	J	ug/l	2.00	0.452	4	08/04/10 03:15	08/05/10 06:45	EPA 3005A	1,6020A	BM
Iron, Total	1190		ug/l	200	33.6	4	08/04/10 03:15	08/05/10 06:45	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-11
 Client ID: GP-10-18-027-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 09:28
 Date Received: 08/03/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	105		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 04:26	EPA 3005A	1,6020A	BM
Iron, Dissolved	32000		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 04:26	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-12

Date Collected: 08/03/10 09:28

Client ID: GP-10-18-027-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	117		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 06:52	EPA 3005A	1,6020A	BM
Iron, Total	35400		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 06:52	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-13

Date Collected: 08/03/10 10:25

Client ID: GP-10-18-037-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	262		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 04:38	EPA 3005A	1,6020A	BM
Iron, Dissolved	18800		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 04:38	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-14
 Client ID: GP-10-18-037-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 10:25
 Date Received: 08/03/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	274		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 07:04	EPA 3005A	1,6020A	BM
Iron, Total	21300		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 07:04	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-15

Date Collected: 08/03/10 11:30

Client ID: GP-10-18-047-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	390		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 05:08	EPA 3005A	1,6020A	BM
Iron, Dissolved	32300		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 05:08	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-16

Date Collected: 08/03/10 11:30

Client ID: GP-10-18-047-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	373		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 07:28	EPA 3005A	1,6020A	BM
Iron, Total	35200		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 07:28	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-17

Date Collected: 08/03/10 14:09

Client ID: GP-10-19-009-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.38	J	ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 05:45	EPA 3005A	1,6020A	BM
Iron, Dissolved	908		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 05:45	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-18

Date Collected: 08/03/10 14:09

Client ID: GP-10-19-009-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.570		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 07:34	EPA 3005A	1,6020A	BM
Iron, Total	1040		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 07:34	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-19

Date Collected: 08/03/10 15:00

Client ID: GP-10-19-019-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.600		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 05:51	EPA 3005A	1,6020A	BM
Iron, Dissolved	831		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 05:51	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-20

Date Collected: 08/03/10 15:00

Client ID: GP-10-19-019-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	3.07		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 07:40	EPA 3005A	1,6020A	BM
Iron, Total	3680		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 07:40	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-21

Date Collected: 08/03/10 09:28

Client ID: DUP-080310-F

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	107		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 05:57	EPA 3005A	1,6020A	BM
Iron, Dissolved	32800		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 05:57	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-22

Client ID: DUP-080310-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/03/10 09:28

Date Received: 08/03/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	118		ug/l	2.50	0.565	5	08/04/10 03:15	08/05/10 07:58	EPA 3005A	1,6020A	BM
Iron, Total	34600		ug/l	250	42.0	5	08/04/10 03:15	08/05/10 07:58	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-23
 Client ID: DUP2-080310-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 14:09
 Date Received: 08/03/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.35	J	ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 06:03	EPA 3005A	1,6020A	BM
Iron, Dissolved	982		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 06:03	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-24

Date Collected: 08/03/10 14:09

Client ID: DUP2-080310-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.530		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 08:04	EPA 3005A	1,6020A	BM
Iron, Total	1030		ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 08:04	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-25

Date Collected: 08/03/10 15:00

Client ID: RB-080310-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/05/10 08:10	EPA 3005A	1,6020A	BM
Iron, Total	13.3	J	ug/l	50.0	8.41	1	08/04/10 03:15	08/05/10 08:10	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 Batch: WG425912-1										
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM
Iron, Total	9.87	J	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:10	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 Batch: WG425915-1										
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:22	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:22	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805

Report Date: 08/20/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 Batch: WG425912-2								
Arsenic, Total	98		-		80-120	-		
Iron, Total	105		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 Batch: WG425915-2								
Arsenic, Dissolved	99		-		80-120	-		
Iron, Dissolved	104		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805

Report Date: 08/20/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 QC Batch ID: WG425912-3 WG425912-4 QC Sample: L1011805-14 Client ID: GP-10-18-037-U												
Arsenic, Total	274	120	387	94		396	102		80-120	2		20
Iron, Total	21300	1000	20500	0		21700	40		80-120	6		20
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG425915-3 WG425915-4 QC Sample: L1011805-13 Client ID: GP-10-18-037-F												
Arsenic, Dissolved	262	120	393	109		393	109		80-120	0		20
Iron, Dissolved	18800	1000	19800	100		19900	110		80-120	1		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-02

Date Collected: 08/02/10 15:36

Client ID: GP-10-17-039-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	95		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	4.1		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-04

Date Collected: 08/02/10 16:24

Client ID: GP-10-17-049-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	290		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	3.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-06

Date Collected: 08/02/10 17:16

Client ID: GP-10-17-056-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	1700		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	3.7		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW



Project Name: SHL TASK 0002**Lab Number:** L1011805**Project Number:** AC001**Report Date:** 08/20/10**SAMPLE RESULTS****Lab ID:** L1011805-08**Date Collected:** 08/02/10 18:35**Client ID:** GP-10-18-007-U**Date Received:** 08/03/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	13		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.4		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-10

Date Collected: 08/03/10 08:30

Client ID: GP-10-18-017-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	7.5		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-12

Date Collected: 08/03/10 09:28

Client ID: GP-10-18-027-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	65		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	3.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-14

Date Collected: 08/03/10 10:25

Client ID: GP-10-18-037-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	48		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	5.0		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-16

Date Collected: 08/03/10 11:30

Client ID: GP-10-18-047-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	160		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	6.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW



Project Name: SHL TASK 0002**Lab Number:** L1011805**Project Number:** AC001**Report Date:** 08/20/10**SAMPLE RESULTS****Lab ID:** L1011805-18**Date Collected:** 08/03/10 14:09**Client ID:** GP-10-19-009-U**Date Received:** 08/03/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.1		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-20

Date Collected: 08/03/10 15:00

Client ID: GP-10-19-019-U

Date Received: 08/03/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	70		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.0		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,20 Batch: WG426639-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,20 Batch: WG427141-1									
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control**Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011805**Report Date:** 08/20/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20 Batch: WG427141-2								
Dissolved Organic Carbon	98				90-110			

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805

Report Date: 08/20/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20 QC Batch ID: WG427141-3 QC Sample: L1011792-04 Client ID: MS Sample												
Dissolved Organic Carbon	2.8	4	6.7	98		-	-		79-120	-		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1011805

Report Date: 08/20/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20 QC Batch ID: WG426639-2 QC Sample: L1011805-14 Client ID: GP-10-18-037-U						
Solids, Total Suspended	48.	72	mg/l	40	Q	32
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20 QC Batch ID: WG427141-4 QC Sample: L1011792-02 Client ID: DUP Sample						
Dissolved Organic Carbon	3.6	3.4	mg/l	6		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805

Report Date: 08/20/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

B Present/Intact

A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011805-01A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-02A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-02B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-03A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-04A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-04B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-05A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-06A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-06B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-07A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-08A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-08B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-09A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-10A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-10B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-11A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-12A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-12B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-13A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-13B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011805-14A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-14B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-14C	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-14D	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-15A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-16A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-16B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-17A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-18A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-18B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-19A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-20A	Plastic 1000ml unpreserved	B	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-20B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-21A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-22B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-23A	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-24B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-25B	Plastic 500ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCS D - Laboratory Control Sample Duplicate: Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MS D - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

Data Qualifiers

- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1011805

Project Number: AC001

Report Date: 08/20/10

REFERENCES

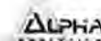
- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846, Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 – Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.) :

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ti)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Ti,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H-B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

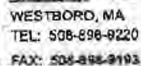
Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

PAGE 1 OF 3



MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3268

* Done as noted for Filtred
metals = As, Fe

Date Due: 8/10/10 Time:

☒ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

--

Filtration _____
☒ Done *
☐ Not needed
☐ Lab to do
 Preservation _____
☐ Lab to do
 (Please specify below)

FORM NO: 01-01 (rev. 18-Jan-2010)

Date/Time

Repeats from 1 to 4, 10, 100, and some
 1000. Samples can not be added
 in and around the clock will not
 start until an amplitude is resolved.
 All samples submitted are subject to
 Alpha's Terms and Conditions.
 See reverse side.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Revised

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield, MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmcbain@swcon

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 21 - closed

* Done as noted F = Filtered
metals = As, Fe

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/10/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State / Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SOG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING

Filtration _____
☒ Done ☒ Not needed
☐ Lab to do
Preservation _____
☐ Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										TOTAL # BOTTLES
		Date	Time			TSS	DOC	DOC	TOC	Metals	Metals	Metals	Metals	Metals	Metals	
11805	GP-10-18-027-F	8/3/10	0925	GW	JAR											1
11806	GP-10-18-027-U	8/3/10	0928	GW	JAR	✓	✓	✓								3
11807	GP-10-18-037-F	8/3/10	1025	GW	JAR											1
11808	GP-10-18-037-U	8/3/10	1025	GW	JAR	✓	✓	✓								4
11809	GP-10-18-047-F	8/3/10	1130	GW	JAR											2
11810	GP-10-18-047-U	8/3/10	1130	GW	JAR	✓	✓	✓								3
11811	GP-10-19-009-F	8/3/10	1409	GW	JAR											1
11812	GP-10-19-009-U	8/3/10	1409	GW	JAR	✓	✓	✓								3
11813	GP-10-19-019-F	8/3/10	1500	GW	JAR											1
11814	GP-10-19-019-U	8/3/10	1500	GW	JAR	✓	✓	✓								3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P A P P

Preservative A A C C

Relinquished By: [Signature]

Date/Time 8/3/10 1200

Received By: [Signature]

Date/Time 8/3/10 1310

Please print and sign by an authorized representative. Samples can only be collected in and returned to the lab in a timely manner. All samples submitted are subject to Alpha's Terms and Conditions. See website for details.



CHAIN OF CUSTODY

PAGE 1 OF 3

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3298

Client Information

Client: Sovereign Consulting Inc
Address: 905 B & Main Street
Mansfield MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: p.mcbain@sovercon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

if MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 21 - Closed

* Done as noted F= Filtered
metals = As, Fe

Project Information

Project Name: SHL
Project Location: Ayer MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed 3 pre-approved)

Date Due: 8/10/10 Time:

Date Rec'd in Lab: 8/3/10

ALPHA Job #: L1011805

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State / Fed Program Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS										SAMPLE HANDLING		TOTAL # BOTTLES		
TSS by SM-2540 DOC by DR-2000 Total metals by EPA 8210 Diss metals by EPA 8210										Filtration _____ <input checked="" type="checkbox"/> Done * <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)				
Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1	2	3	4	5	6	7	8	Sample Specific Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1	2	3	4	5	6	7	8	Sample Specific Comments	
11805.1	GP-10-17-039-F	8/2/10	1536	GW	JAR										1
2	GP-10-17-039-U	8/2/10	1536	GW	JAR	✓	✓	✓							3
3	GP-10-17-049-F	8/2/10	1624	GW	EEF										1
4	GP-10-17-049-U	8/2/10	1624	GW	EEF	✓	✓	✓							3
5	GP-10-17-056-F	8/2/10	1716	GW	EEF										1
6	GP-10-17-056-U	8/2/10	1716	GW	EEF	✓	✓	✓							3
7	GP-10-18-007-F	8/2/10	1835	GW	JAR										1
8	GP-10-18-007-U	8/2/10	1835	GW	JAR	✓	✓	✓							3
9	GP-10-18-017-F	8/3/10	0830	GW	JAR										1
10	GP-10-18-017-U	8/3/10	0830	GW	JAR	✓	✓	✓							3

PLEASE ANSWER QUESTIONS ABOVE!

Container Type P A P P
Preservative A A C C

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: [Signature]

Date/Time: 8/10 1200

Received By: [Signature]

Date/Time: 8/3/10 1810

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 8/3/10

ALPHA Job #: L1011805

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: ACOO1

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/10/10 Time:

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield, MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmcain@svcon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 21- closed

* Done as Noted F = Filtered
metals = As, Fe

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR

☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State / Fed Program Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

TOC
DOC
DIC
Total Metals
Dis Metals

SAMPLE HANDLING

Filtration _____
☒ Done ☒ *
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											TOTAL # BOTTLES
		Date	Time			TOC	DOC	DIC	Total Metals	Dis Metals						
11805-11	GP-10-18-027-F	8/3/10	0928	GW	JAR											1
12	GP-10-18-027-U	8/3/10	0928	GW	JAR	✓	✓	✓								3
13	GP-10-18-037-F	8/3/10	1025	GW	JAR					✓						1
14	GP-10-18-037-U	8/3/10	1025	GW	JAR	✓	✓	✓						MS/MSD		4
15	GP-10-18-047-F	8/3/10	1130	GW	JAR					✓				MS/MSD		2
16	GP-10-18-047-U	8/3/10	1130	GW	JAR	✓	✓	✓								3
17	GP-10-19-009-F	8/3/10	1409	GW	JAR					✓						1
18	GP-10-19-009-U	8/3/10	1409	GW	JAR	✓	✓	✓								3
19	GP-10-19-019-F	8/3/10	1500	GW	JAR					✓						1
20	GP-10-19-019-U	8/3/10	1500	GW	JAR	✓	✓	✓								3

PLEASE ANSWER QUESTIONS ABOVE!

Container Type P A P P

Preservative A A C C

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 8/3/10

ALPHA Job #: L1011805

Client Information

Client: Sovereign Consulting Inc
Address: 905-B S. Main St
Mansfield MA 02048
Phone: 508-339-3200
Fax: 508-339-3248

Email: pmcain@sacon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG#-21 = closed

* Done as noted F = F. Heral
metals = As, Fe

Project Information

Project Name: SHL
Project Location: Ayer MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/10/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State / Fed Program Criteria SEE QMP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

1041 m 4.8
1275 m 4.8

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
11805. 21	DUP-080310-F	8/3/10	0928	GW	JAR	✓									1
22	DUP-080310-U	8/3/10	0928	GW	JAR	✓									1
23	DUP2-080310-F	8/3/10	1409	GW	JAR	✓									1
24	DUP2-080310-U	8/3/10	1409	GW	JAR	✓									1
25	RB-080310-U	8/3/10	1500	GW	JAR	✓									1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P

Preservative C

Relinquished By: [Signature]

Date/Time: 8/3/10 1200

Received By: [Signature]

Date/Time: 8/3/10 1810

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4 3025485

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 1050 Washington Street
City/Town: Braintree Zip Code: 02184

B. This notice is being provided to the following party:

1. Name: David O'Brien, Braintree Cooperative Bank
2. Street Address: 1010 Washington Street
City/Town: Braintree Zip Code: 02184

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 1010 Washington Street
City/Town: Braintree Zip Code: 02184

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|--|---|
| <input type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input checked="" type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

☐ residential ☒ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Groundwater from monitoring wells

E. Contact information related to the party providing this notice:

Contact Name: Neil R. Schofield
Street Address: 905B South Main Street, Suite 202
City/Town: Mansfield Zip Code: 02048
Telephone: (508) 339-3200 Email: nschofield@sovcon.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



ANALYTICAL REPORT

Lab Number: L1011832

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/11/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011832
Report Date: 08/11/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011832-01	GP-10-17-009-U	DEVENS, MA	08/02/10 10:33
L1011832-02	GP-10-17-019-U	DEVENS, MA	08/02/10 11:38
L1011832-03	GP-10-17-029-U	DEVENS, MA	08/02/10 14:45
L1011832-04	DUP-080210-U	DEVENS, MA	08/02/10 11:38

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011832
Report Date: 08/11/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the results for the Dissolved Inorganic Carbon analysis. The results for all other analyses will be issued under separate cover.

Sample Receipt

These samples were originally logged and filtered with SDG L1011707.

Dissolved Inorganic Carbon

L1011832-01 through -04 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

WG426769: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD.

The Filter Blank result is reported from an analysis where the CCB before the sequence failed high, but re-

Project Name: SHL TASK 0002
Project Number: AC001

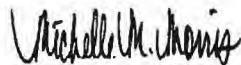
Lab Number: L1011832
Report Date: 08/11/10

Case Narrative (continued)

analysis could not be performed due to limited sample volume.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/11/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011832**Report Date:** 08/11/10**SAMPLE RESULTS****Lab ID:** L1011832-01**Client ID:** GP-10-17-009-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 08/02/10 10:33**Date Received:** 08/02/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	13		mg/l	8.0	--	8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011832

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011832-02

Date Collected: 08/02/10 11:38

Client ID: GP-10-17-019-U

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	14		mg/l	8.0	--	8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011832

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011832-03

Date Collected: 08/02/10 14:45

Client ID: GP-10-17-029-U

Date Received: 08/02/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	12		mg/l	8.0	--	8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002**Lab Number:** L1011832**Project Number:** AC001**Report Date:** 08/11/10**SAMPLE RESULTS****Lab ID:** L1011832-04**Date Collected:** 08/02/10 11:38**Client ID:** DUP-080210-U**Date Received:** 08/02/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	13		mg/l	8.0	--	8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011832

Project Number: AC001

Report Date: 08/11/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-04 Batch: WG426769-1										
Dissolved Inorganic Carbon	ND		mg/l	1.0	-	1	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW



Lab Control Sample Analysis
Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011832

Report Date: 08/11/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Associated sample(s): 01-04 Batch: WG426769-2								
Dissolved Inorganic Carbon	98							

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1011832

Report Date: 08/11/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-04 QC Batch ID: WG426769-3 QC Sample: L1011832-01 Client ID: GP-10-17-009-U						
Dissolved Inorganic Carbon	13	13	mg/l	0		

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011832
Report Date: 08/11/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	Spectra identified as "Aldol Condensation Product".
B	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	The RPD between the results for the two columns exceeds the method-specified criteria.
Q	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name: SHL TASK 0002

Lab Number: L1011832

Project Number: AC001

Report Date: 08/11/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011832
Report Date: 08/11/10

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (EPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (EPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500Cl-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500Cl-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev 7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3286

CHAIN OF CUSTODY

PAGE 1 OF 1

Client Information

Client: Sovereign Consulting Inc

Address: 905 B South Main St

Mansfield MA 02408

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmcbrin@sovereign.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 20 = Closed

* As noted w/ F = Filtered
Metals = As + Fe

Project Information

Project Name: SHL

Project Location: Aye Ma

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/19/10 Time:

Report Information - Data Deliverables

☐ FAX

☐ ADEX

☒ EMAIL ERR

☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State / Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☐ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING

Filtration

☒ Done ☒ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

ALPHA (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TSS	DOC	Total H	Diss	(Please specify below)									
		Date	Time							Sample Specific Comments									
11832-1	GP-10-07-009-F	8/2/10	1033	GW	EEF				✓								MS/MSD	1	
32-1	GP-10-07-009-U	8/2/10	1033	GW	EEF	✓	✓	✓									MS/MSD	3	
	GP-10-07-019-F	8/2/10	1138	GW	JAR				✓								Run MS on TSS.	1	
2-4	GP-10-07-019-U	8/2/10	1138	GW	JAR	✓	✓	✓									only.	3	
	GP-10-07-029-F	8/2/10	1445	GW	EEF				✓									1	
3-6	GP-10-07-029-U	8/2/10	1445	GW	EEF	✓	✓	✓										3	
	DUP-080210-F	8/2/10	1138	GW	JAR				✓									1	
4-8	DUP-080210-U	8/2/10	1138	GW	JAR	✓	✓	✓										3	
	RB-080210-U	8/2/10	1530	GW	CMH				✓									1	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type

P A P P

Preservative

A A C C

Requisitioned By:

Date/Time

Received By:

Date/Time



ANALYTICAL REPORT

Lab Number: L1011870

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 09/14/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011870-01	GP-10-19-029-F	DEVENS, MA	08/03/10 15:48
L1011870-02	GP-10-19-029-U	DEVENS, MA	08/03/10 15:48
L1011870-03	GP-10-19-039-F	DEVENS, MA	08/03/10 16:30
L1011870-04	GP-10-19-039-U	DEVENS, MA	08/03/10 16:30
L1011870-05	GP-10-19-046-F	DEVENS, MA	08/03/10 17:28
L1011870-06	GP-10-19-046-U	DEVENS, MA	08/03/10 17:28
L1011870-07	GP-10-20-009-F	DEVENS, MA	08/04/10 08:50
L1011870-08	GP-10-20-009-U	DEVENS, MA	08/04/10 08:50
L1011870-09	GP-10-20-019-F	DEVENS, MA	08/04/10 09:45
L1011870-10	GP-10-20-019-U	DEVENS, MA	08/04/10 09:45
L1011870-11	GP-10-11-059-F	DEVENS, MA	08/03/10 16:25
L1011870-12	GP-10-11-059-U	DEVENS, MA	08/03/10 16:25
L1011870-13	GP-10-11-064-F	DEVENS, MA	08/04/10 13:05
L1011870-14	GP-10-11-064-U	DEVENS, MA	08/04/10 13:05
L1011870-15	GP-10-20-029-F	DEVENS, MA	08/04/10 10:37
L1011870-16	GP-10-20-029-U	DEVENS, MA	08/04/10 10:37
L1011870-17	GP-10-20-039-F	DEVENS, MA	08/04/10 11:26
L1011870-18	GP-10-20-039-U	DEVENS, MA	08/04/10 11:26
L1011870-19	GP-10-21-011-F	DEVENS, MA	08/04/10 14:32
L1011870-20	GP-10-21-011-U	DEVENS, MA	08/04/10 14:32
L1011870-21	DUP-080410-F	DEVENS, MA	08/04/10 09:45
L1011870-22	DUP-080410-U	DEVENS, MA	08/04/10 09:45
L1011870-23	RB-080410-U	DEVENS, MA	08/04/10 11:00
L1011870-24	RB2-080410-U	DEVENS, MA	08/04/10 14:00
L1011870-25	DUP2-080410-F	DEVENS, MA	08/04/10 15:15
L1011870-26	DUP2-080410-U	DEVENS, MA	08/04/10 15:15
L1011870-27	GP-10-21-021-F	DEVENS, MA	08/04/10 15:15
L1011870-28	GP-10-21-021-U	DEVENS, MA	08/04/10 15:15

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Dissolved Inorganic Carbon results will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

L1011870-02, 04, -06 and -12: Samples were received at the laboratory requiring filtration for Dissolved Organic Carbon; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

Case Narrative (continued)

The following samples were analyzed for Magnesium, at the client's request: L1011870-09, -10, -12, -14, -22 and -24 through -28.

Dissolved Metals

L1011870-01, -03, -05, -15, -17, -25 and -27 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes.

L1011870-11 has elevated detection limits for all analytes, except Mercury, due to the dilution required by the high concentrations of target analytes.

The WG426283-1 Method Blank, associated with L1011870-11, -13 and -21, has a concentration above the reporting limit for Silver. Since the associated samples were non-detect for this target analyte, no qualification of the results was required.

The WG428706-1 Method Blank, associated with L1011870-21, has a concentration greater than one half the reporting limit for Mercury. Since the associated sample was non-detect for this target analyte, no qualification of the results was required.

The WG426283-4 MSD recovery for Sodium (122%), performed on L1011870-13, is invalid because the sample concentration is greater than four times the spike amount added.

The WG426283-6 Post Digestion Spike recoveries for Aluminum, Calcium, Magnesium, Manganese, Potassium, Sodium and Zinc, associated with L1011870-13, were outside the DoD acceptance criteria of 75-125%; therefore, the parent sample (L1011870-13) results are qualified with a "J" for these elements.

The WG426595-3/-4 MS/MSD recoveries, performed on L1011870-27, are below the acceptance criteria for Calcium (MS at 123%) and Manganese (MSD at 76%). A post digestion spike was performed with unacceptable recoveries of Calcium (0%) and Manganese (400%). This has been attributed to the sample matrix. The parent sample (L1011870-27) results are qualified with a "J" for these elements.

The WG426595-4 MSD recovery for Sodium, performed on L1011870-27, is invalid because the sample concentration is greater than four times the spike amount added.

The WG428705-5/-6 MS/MSD recoveries, performed on L1011870-13, are above the acceptance criteria for Mercury (128%/128%); however, the associated LCS recovery is within criteria. A post-digestion spike was performed with an acceptable recovery of 114%.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

Case Narrative (continued)

The WG428706-3/-4 MS/MSD recoveries, performed on L1011870-21, are above the acceptance criteria for Mercury (130%/129%); however, the associated LCS recovery is within criteria. A post-digestion spike was performed with an acceptable recovery of 109%. The parent sample (L1011870-21) result should be qualified with a "UJ".

Total Metals

L1011870-02, -04, -06, -10, -12, -14, -16, -18, -22, -26 and -28 have elevated detection limit for all analytes due to the dilutions required by the high concentrations of target analytes.

The WG426479-3/-4 MS/MSD recoveries for Aluminum (0%/0%), Calcium (0%/20%), Chromium (73%/71%), Iron (0%/0%), Manganese (28%/26%) and Potassium (MS at 79%), performed on L1011870-14, are invalid because the sample concentrations are greater than four times the spike amount added.

The WG426479-3 MS recovery, performed on L1011870-14, is below the acceptance criteria for Magnesium (77%). A post digestion spike was performed with an acceptable recovery of 92%. The parent sample (L1011870-14) result is qualified with a "J" for this element.

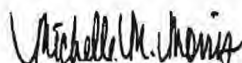
The WG426592-3 MS recovery for Sodium (150%), performed on L1011870-26, is invalid because the sample concentration is greater than four times the spike amount added.

Solids, Total Suspended

L1011870-12 and -14 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 09/14/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-01

Date Collected: 08/03/10 15:48

Client ID: GP-10-19-029-F

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	810		ug/l	5.00	1.13	10	08/05/10 16:30	08/10/10 21:38	EPA 3005A	1,6020A	BM
Iron, Dissolved	73300		ug/l	500	84.1	10	08/05/10 16:30	08/10/10 21:38	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-02

Date Collected: 08/03/10 15:48

Client ID: GP-10-19-029-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	886		ug/l	5.00	1.13	10	08/06/10 15:50	08/11/10 03:26	EPA 3005A	1,6020A	BM
Iron, Total	89800		ug/l	500	84.1	10	08/06/10 15:50	08/11/10 03:26	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-03

Date Collected: 08/03/10 16:30

Client ID: GP-10-19-039-F

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	677		ug/l	5.00	1.13	10	08/05/10 16:30	08/10/10 21:44	EPA 3005A	1,6020A	BM
Iron, Dissolved	58800		ug/l	500	84.1	10	08/05/10 16:30	08/10/10 21:44	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-04

Date Collected: 08/03/10 16:30

Client ID: GP-10-19-039-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	690		ug/l	5.00	1.13	10	08/06/10 15:50	08/11/10 03:32	EPA 3005A	1,6020A	BM
Iron, Total	65600		ug/l	500	84.1	10	08/06/10 15:50	08/11/10 03:32	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

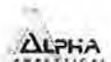
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-05
Client ID: GP-10-19-046-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/03/10 17:28
Date Received: 08/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	3.92		ug/l	2.50	0.565	5	08/05/10 16:30	08/10/10 21:50	EPA 3005A	1,6020A	BM
Iron, Dissolved	4280		ug/l	250	42.0	5	08/05/10 16:30	08/10/10 21:50	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-06
 Client ID: GP-10-19-046-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 17:28
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	23.3		ug/l	5.00	1.13	10	08/06/10 15:50	08/11/10 03:38	EPA 3005A	1,6020A	BM
Iron, Total	14400		ug/l	500	84.1	10	08/06/10 15:50	08/11/10 03:38	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-07

Date Collected: 08/04/10 08:50

Client ID: GP-10-20-009-F

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.4	J	ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 22:40	EPA 3005A	1,6020A	BM
Iron, Dissolved	1260		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 22:40	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-08
 Client ID: GP-10-20-009-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 08:50
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Westborough Lab

Arsenic, Total	1.60		ug/l	0.500	0.113	1	08/06/10 15:50	08/11/10 04:03	EPA 3005A	1,6020A	BM
Iron, Total	2000		ug/l	50.0	8.41	1	08/06/10 15:50	08/11/10 04:03	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-09
 Client ID: GP-10-20-019-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 09:45
 Date Received: 08/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	5.49	J	ug/l	10.0	1.91	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	1.02		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Calcium, Dissolved	12100		ug/l	100	12.6	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.510		ug/l	0.500	0.186	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Iron, Dissolved	1500		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Lead, Dissolved	0.06	J	ug/l	0.500	0.050	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1570		ug/l	100	4.10	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Manganese, Dissolved	920		ug/l	1.00	0.136	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Nickel, Dissolved	4.71		ug/l	0.500	0.180	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3700		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM
Sodium, Dissolved	119000		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-10
 Client ID: GP-10-20-019-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 09:45
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	488		ug/l	20.0	3.82	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Arsenic, Total	2.94		ug/l	1.00	0.226	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Calcium, Total	13100		ug/l	200	25.3	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Chromium, Total	3.25		ug/l	1.00	0.372	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Iron, Total	2910		ug/l	100	16.8	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Lead, Total	0.79	J	ug/l	1.00	0.100	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Magnesium, Total	1840		ug/l	200	8.20	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Manganese, Total	989		ug/l	2.00	0.272	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Nickel, Total	8.04		ug/l	1.00	0.360	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Potassium, Total	4290		ug/l	200	36.3	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM
Sodium, Total	129000		ug/l	200	36.4	2	08/06/10 15:50	08/11/10 04:27	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-11
 Client ID: GP-10-11-059-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/03/10 16:25
 Date Received: 08/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		ug/l	40.0	7.64	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Antimony, Dissolved	1.17	J	ug/l	2.00	0.480	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	236		ug/l	2.00	0.452	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Barium, Dissolved	27.3		ug/l	2.00	0.380	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	2.00	0.236	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	2.00	0.236	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Calcium, Dissolved	44000		ug/l	400	50.6	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Chromium, Dissolved	ND		ug/l	2.00	0.744	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	19.5		ug/l	2.00	0.212	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Copper, Dissolved	0.72	J	ug/l	2.00	0.472	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Iron, Dissolved	28500		ug/l	200	33.6	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	2.00	0.200	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	3930		ug/l	400	16.4	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Manganese, Dissolved	5580		ug/l	4.00	0.544	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Mercury, Dissolved	0.09013	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 13:13	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	5.81		ug/l	2.00	0.720	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4240		ug/l	400	72.6	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		ug/l	4.00	1.62	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	2.00	0.340	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Sodium, Dissolved	20000		ug/l	400	72.8	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		ug/l	2.00	0.124	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	2.00	0.308	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM
Zinc, Dissolved	8.81	J	ug/l	20.0	6.50	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-12

Date Collected: 08/03/10 16:25

Client ID: GP-10-11-059-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	49400		ug/l	100	19.1	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Arsenic, Total	760		ug/l	5.00	1.13	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Calcium, Total	61600		ug/l	1000	126	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Chromium, Total	264		ug/l	5.00	1.86	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Iron, Total	148000		ug/l	500	84.1	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Lead, Total	76.6		ug/l	5.00	0.500	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Magnesium, Total	15600		ug/l	1000	41.0	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Manganese, Total	7700		ug/l	10.0	1.36	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Nickel, Total	142		ug/l	5.00	1.80	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Potassium, Total	10500		ug/l	1000	182	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM
Sodium, Total	25300		ug/l	1000	182	10	08/06/10 15:50	08/11/10 04:33	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-13
 Client ID: GP-10-11-064-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 13:05
 Date Received: 08/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	44.1	J	ug/l	10.0	1.91	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Antimony, Dissolved	1.19		ug/l	0.500	0.120	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	19.8		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Barium, Dissolved	26.5		ug/l	0.500	0.095	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Calcium, Dissolved	44400	J	ug/l	100	12.6	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.600		ug/l	0.500	0.186	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	3.39		ug/l	0.500	0.053	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Copper, Dissolved	0.49	J	ug/l	0.500	0.118	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Iron, Dissolved	3440		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Lead, Dissolved	0.18	J	ug/l	0.500	0.050	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	7570	J	ug/l	100	4.10	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1100	J	ug/l	1.00	0.136	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Mercury, Dissolved	0.03814	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 13:15	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	7.33		ug/l	0.500	0.180	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Potassium, Dissolved	25400	J	ug/l	100	18.2	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Selenium, Dissolved	0.42	J	ug/l	1.00	0.406	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Sodium, Dissolved	49200	J	ug/l	100	18.2	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	0.2	J	ug/l	0.500	0.077	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM
Zinc, Dissolved	1.81	J	ug/l	5.00	1.62	1	08/05/10 16:30	08/10/10 20:32	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-14
Client ID: GP-10-11-064-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 13:05
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	56600		ug/l	50.0	9.56	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Arsenic, Total	230		ug/l	2.50	0.565	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Calcium, Total	285000		ug/l	500	63.3	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Chromium, Total	744		ug/l	2.50	0.930	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Iron, Total	180000		ug/l	250	42.0	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Lead, Total	65.2		ug/l	2.50	0.250	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Magnesium, Total	30600	J	ug/l	500	20.5	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Manganese, Total	7160		ug/l	5.00	0.680	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Nickel, Total	207		ug/l	2.50	0.900	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Potassium, Total	40200		ug/l	500	90.8	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM
Sodium, Total	61200		ug/l	500	91.0	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-15
 Client ID: GP-10-20-029-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 10:37
 Date Received: 08/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	235		ug/l	2.50	0.565	5	08/05/10 16:30	08/10/10 23:05	EPA 3005A	1,6020A	BM
Iron, Dissolved	56800		ug/l	250	42.0	5	08/05/10 16:30	08/10/10 23:05	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-16
 Client ID: GP-10-20-029-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 10:37
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	220		ug/l	2.50	0.565	5	08/06/10 15:50	08/11/10 05:27	EPA 3005A	1,6020A	BM
Iron, Total	53000		ug/l	250	42.0	5	08/06/10 15:50	08/11/10 05:27	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-17
Client ID: GP-10-20-039-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 11:26
Date Received: 08/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	429		ug/l	2.50	0.565	5	08/05/10 16:30	08/11/10 00:05	EPA 3005A	1,6020A	BM
Iron, Dissolved	13300		ug/l	250	42.0	5	08/05/10 16:30	08/11/10 00:05	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-18
 Client ID: GP-10-20-039-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 11:26
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	446		ug/l	2.50	0.565	5	08/06/10 15:50	08/11/10 05:58	EPA 3005A	1,6020A	BM
Iron, Total	16800		ug/l	250	42.0	5	08/06/10 15:50	08/11/10 05:58	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-19

Date Collected: 08/04/10 14:32

Client ID: GP-10-21-011-F

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.31	J	ug/l	0.500	0.113	1	08/05/10 16:30	08/11/10 00:36	EPA 3005A	1.6020A	BM
Iron, Dissolved	501		ug/l	50.0	8.41	1	08/05/10 16:30	08/11/10 00:36	EPA 3005A	1.6020A	BM



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-20
Client ID: GP-10-21-011-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 14:32
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	3.98		ug/l	0.500	0.113	1	08/06/10 15:50	08/11/10 06:40	EPA 3005A	1,6020A	BM
Iron, Total	2550		ug/l	50.0	8.41	1	08/06/10 15:50	08/11/10 06:40	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-21
 Client ID: DUP-080410-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 09:45
 Date Received: 08/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	5.81	J	ug/l	10.0	1.91	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Antimony, Dissolved	0.21	J	ug/l	0.500	0.120	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.660		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Barium, Dissolved	32.1		ug/l	0.500	0.095	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	0.08	J	ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Calcium, Dissolved	12500		ug/l	100	12.6	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.43	J	ug/l	0.500	0.186	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	2.09		ug/l	0.500	0.053	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Copper, Dissolved	1.00		ug/l	0.500	0.118	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Iron, Dissolved	1630		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1620		ug/l	100	4.10	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Manganese, Dissolved	933		ug/l	1.00	0.136	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Mercury, Dissolved	ND		ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 13:24	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	5.21		ug/l	0.500	0.180	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Potassium, Dissolved	3700		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Selenium, Dissolved	0.59	J	ug/l	1.00	0.406	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Sodium, Dissolved	122000		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Thallium, Dissolved	0.07	J	ug/l	0.500	0.031	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	0.15	J	ug/l	0.500	0.077	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM
Zinc, Dissolved	5.18		ug/l	5.00	1.62	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-22
 Client ID: DUP-080410-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 09:45
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	573		ug/l	20.0	3.82	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Arsenic, Total	3.11		ug/l	1.00	0.226	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Calcium, Total	12500		ug/l	200	25.3	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Chromium, Total	3.31		ug/l	1.00	0.372	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Iron, Total	2630		ug/l	100	16.8	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Lead, Total	0.99	J	ug/l	1.00	0.100	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Magnesium, Total	1750		ug/l	200	8.20	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Manganese, Total	949		ug/l	2.00	0.272	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Nickel, Total	7.24		ug/l	1.00	0.360	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Potassium, Total	4170		ug/l	200	36.3	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM
Sodium, Total	128000		ug/l	200	36.4	2	08/06/10 15:50	08/11/10 07:10	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-23

Date Collected: 08/04/10 11:00

Client ID: RB-080410-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/07/10 16:15	08/11/10 07:53	EPA 3005A	1,6020A	BM
Iron, Total	10.6	J	ug/l	50.0	8.41	1	08/07/10 16:15	08/11/10 07:53	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-24
 Client ID: RB2-080410-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 14:00
 Date Received: 08/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.47	J	ug/l	10.0	1.91	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Calcium, Total	49.6	J	ug/l	100	12.6	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Chromium, Total	0.27	J	ug/l	0.500	0.186	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Iron, Total	11.3	J	ug/l	50.0	8.41	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Manganese, Total	0.18	J	ug/l	1.00	0.136	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM
Sodium, Total	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 08:24	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-25
Client ID: DUP2-080410-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 15:15
Date Received: 08/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	8.05	J	ug/l	20.0	3.82	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.63	J	ug/l	1.00	0.226	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Calcium, Dissolved	22900		ug/l	200	25.3	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.52	J	ug/l	1.00	0.372	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Iron, Dissolved	1030		ug/l	100	16.8	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	1.00	0.100	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2780		ug/l	200	8.20	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1080		ug/l	2.00	0.272	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Nickel, Dissolved	7.48		ug/l	1.00	0.360	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4790		ug/l	200	36.3	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM
Sodium, Dissolved	149000		ug/l	200	36.4	2	08/07/10 16:15	08/11/10 09:07	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-26

Date Collected: 08/04/10 15:15

Client ID: DUP2-080410-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	344		ug/l	20.0	3.82	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Arsenic, Total	1.48		ug/l	1.00	0.226	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Calcium, Total	21600		ug/l	200	25.3	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Chromium, Total	2.76		ug/l	1.00	0.372	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Iron, Total	1550		ug/l	100	16.8	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Lead, Total	0.9	J	ug/l	1.00	0.100	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Magnesium, Total	2690		ug/l	200	8.20	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Manganese, Total	1020		ug/l	2.00	0.272	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Nickel, Total	8.01		ug/l	1.00	0.360	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Potassium, Total	4540		ug/l	200	36.3	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM
Sodium, Total	147000		ug/l	200	36.4	2	08/07/10 16:15	08/11/10 09:37	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-27
Client ID: GP-10-21-021-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 15:15
Date Received: 08/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	6.21	J	ug/l	20.0	3.82	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.62	J	ug/l	1.00	0.226	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Calcium, Dissolved	21600	J	ug/l	200	25.3	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.43	J	ug/l	1.00	0.372	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Iron, Dissolved	984		ug/l	100	16.8	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	1.00	0.100	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2580		ug/l	200	8.20	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Manganese, Dissolved	1020	J	ug/l	2.00	0.272	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Nickel, Dissolved	7.25		ug/l	1.00	0.360	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4520		ug/l	200	36.3	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM
Sodium, Dissolved	153000		ug/l	200	36.4	2	08/07/10 16:15	08/11/10 10:20	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-28
Client ID: GP-10-21-021-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 15:15
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	446		ug/l	20.0	3.82	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Arsenic, Total	1.71		ug/l	1.00	0.226	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Calcium, Total	22100		ug/l	200	25.3	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Chromium, Total	3.23		ug/l	1.00	0.372	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Iron, Total	1730		ug/l	100	16.8	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Lead, Total	0.53	J	ug/l	1.00	0.100	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Magnesium, Total	2760		ug/l	200	8.20	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Manganese, Total	1050		ug/l	2.00	0.272	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Nickel, Total	8.51		ug/l	1.00	0.360	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Potassium, Total	4690		ug/l	200	36.3	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM
Sodium, Total	155000		ug/l	200	36.4	2	08/07/10 16:15	08/11/10 10:51	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01,03,05,07,15,17,19 Batch: WG426282-1										
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 09,11,13,21 Batch: WG426283-1										
Aluminum, Dissolved	2.34	J	ug/l	10.0	1.91	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Antimony, Dissolved	ND		ug/l	0.500	0.120	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Barium, Dissolved	ND		ug/l	0.500	0.095	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Calcium, Dissolved	ND		ug/l	100	12.6	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Chromium, Dissolved	ND		ug/l	0.500	0.186	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Cobalt, Dissolved	ND		ug/l	0.500	0.053	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Copper, Dissolved	ND		ug/l	0.500	0.118	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Iron, Dissolved	ND		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Nickel, Dissolved	ND		ug/l	0.500	0.180	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Silver, Dissolved	0.830		ug/l	0.500	0.085	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Sodium, Dissolved	ND		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	0.500	0.077	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM
Zinc, Dissolved	ND		ug/l	5.00	1.62	1	08/05/10 16:30	08/10/10 19:31	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02,04,06,08,16,18,20 Batch: WG426477-1										
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Iron, Total	12.7	J	ug/l	50.0	8.41	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 10,12,14,22 Batch: WG426479-1										
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Calcium, Total	ND		ug/l	100	12.6	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Chromium, Total	ND		ug/l	0.500	0.186	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Iron, Total	12.7	J	ug/l	50.0	8.41	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Manganese, Total	ND		ug/l	1.00	0.136	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM
Sodium, Total	ND		ug/l	100	18.2	1	08/06/10 15:50	08/11/10 02:25	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 23-24,26,28 Batch: WG426592-1										
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Method Blank Analysis Batch Quality Control

Arsenic, Total	ND		ug/l	0.500	0.113	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Calcium, Total	18.8	J	ug/l	100	12.6	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Chromium, Total	ND		ug/l	0.500	0.186	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Iron, Total	11.5	J	ug/l	50.0	8.41	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Manganese, Total	ND		ug/l	1.00	0.136	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Sodium, Total	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 25,27 Batch: WG426595-1										
Aluminum, Dissolved	ND		ug/l	10.0	1.91	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Calcium, Dissolved	18.8	J	ug/l	100	12.6	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Chromium, Dissolved	ND		ug/l	0.500	0.186	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Iron, Dissolved	11.5	J	ug/l	50.0	8.41	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Nickel, Dissolved	ND		ug/l	0.500	0.180	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Potassium, Dissolved	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM
Sodium, Dissolved	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 11,13 Batch: WG428705-1										
Mercury, Dissolved	0.03447	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 13:10	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 21 Batch: WG428706-1										
Mercury, Dissolved	0.1159	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 13:21	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,15,17,19 Batch: WG426282-2								
Arsenic, Dissolved	101		-		80-120	-		
Iron, Dissolved	106		-		80-120	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09,11,13,21 Batch: WG426283-2					
Aluminum, Dissolved	94	-	80-120	-	
Antimony, Dissolved	100	-	80-120	-	
Arsenic, Dissolved	101	-	80-120	-	
Barium, Dissolved	100	-	80-120	-	
Beryllium, Dissolved	102	-	80-120	-	
Cadmium, Dissolved	111	-	80-120	-	
Calcium, Dissolved	100	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Cobalt, Dissolved	102	-	80-120	-	
Copper, Dissolved	102	-	80-120	-	
Iron, Dissolved	106	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	102	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	102	-	80-120	-	
Potassium, Dissolved	100	-	80-120	-	
Selenium, Dissolved	107	-	80-120	-	
Silver, Dissolved	97	-	80-120	-	
Sodium, Dissolved	101	-	80-120	-	
Thallium, Dissolved	93	-	80-120	-	
Vanadium, Dissolved	99	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09,11,13,21 Batch: WG426283-2					
Zinc, Dissolved	102	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08,16,18,20 Batch: WG426477-2					
Arsenic, Total	106	-	80-120	-	
Iron, Total	109	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 10,12,14,22 Batch: WG426479-2					
Aluminum, Total	96	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Calcium, Total	104	-	80-120	-	
Chromium, Total	98	-	80-120	-	
Iron, Total	109	-	80-120	-	
Lead, Total	104	-	80-120	-	
Magnesium, Total	105	-	80-120	-	
Manganese, Total	105	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	102	-	80-120	-	
Sodium, Total	111	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 23-24,26,28 Batch: WG426592-2					
Aluminum, Total	98	-	80-120	-	
Arsenic, Total	103	-	80-120	-	
Calcium, Total	105	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Iron, Total	111	-	80-120	-	
Lead, Total	105	-	80-120	-	
Magnesium, Total	106	-	80-120	-	
Manganese, Total	106	-	80-120	-	
Nickel, Total	107	-	80-120	-	
Potassium, Total	105	-	80-120	-	
Sodium, Total	113	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 25,27 Batch: WG426595-2					
Aluminum, Dissolved	98	-	80-120	-	
Arsenic, Dissolved	103	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	100	-	80-120	-	
Iron, Dissolved	111	-	80-120	-	
Lead, Dissolved	105	-	80-120	-	
Magnesium, Dissolved	106	-	80-120	-	
Manganese, Dissolved	106	-	80-120	-	
Nickel, Dissolved	107	-	80-120	-	
Potassium, Dissolved	105	-	80-120	-	
Sodium, Dissolved	113	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 11,13 Batch: WG428705-2					
Mercury, Dissolved	119	-	80-120	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 21 Batch: WG428706-2					
Mercury, Dissolved	118	-	80-120	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,15,17,19 QC Batch ID: WG426282-3 WG426282-4 QC Sample: L1011870-07 Client ID: GP-10-20-009-F												
Arsenic, Dissolved	ND	120	125	104		125	104		80-120	0		20
Iron, Dissolved	1260	1000	2290	103		2330	107		80-120	2		20

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09,11,13,21 QC Batch ID: WG426283-3 WG426283-4 QC Sample: L1011870-13 Client ID: GP-10-11-064-F									
Aluminum, Dissolved	44.1	2000	1950	95	1890	92	80-120	3	20
Antimony, Dissolved	1.19	500	515	103	512	102	80-120	1	20
Arsenic, Dissolved	19.8	120	145	104	144	104	80-120	1	20
Barium, Dissolved	26.5	2000	2070	102	2040	101	80-120	1	20
Beryllium, Dissolved	ND	50	53.5	107	52.8	106	80-120	1	20
Cadmium, Dissolved	ND	51	57.9	114	57.4	112	80-120	1	20
Calcium, Dissolved	44400	10000	55300	109	55400	110	80-120	0	20
Chromium, Dissolved	0.600	200	194	97	192	96	80-120	1	20
Cobalt, Dissolved	3.39	500	519	103	511	102	80-120	2	20
Copper, Dissolved	ND	250	260	104	253	101	80-120	3	20
Iron, Dissolved	3440	1000	4580	114	4550	111	80-120	1	20
Lead, Dissolved	ND	510	527	103	519	102	80-120	2	20
Magnesium, Dissolved	7570	10000	17800	102	17700	101	80-120	1	20
Manganese, Dissolved	1100	500	1630	106	1630	106	80-120	0	20
Nickel, Dissolved	7.33	500	521	103	512	101	80-120	2	20
Potassium, Dissolved	25400	10000	35900	105	35300	99	80-120	2	20
Selenium, Dissolved	ND	120	123	102	122	102	80-120	1	20
Silver, Dissolved	ND	50	49.5	99	48.2	96	80-120	3	20
Sodium, Dissolved	49200	10000	61200	120	61400	122	80-120	0	20
Thallium, Dissolved	ND	120	114	95	113	94	80-120	2	20
Vanadium, Dissolved	ND	500	505	101	495	99	80-120	2	20

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09,11,13,21 QC Batch ID: WG426283-3 WG426283-4 QC Sample: L1011870-13 Client ID: GP-10-11-064-F									
Zinc, Dissolved	ND	500	521	104	508	102	80-120	3	20
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08,16,18,20 QC Batch ID: WG426477-3 WG426477-4 QC Sample: L1011870-08 Client ID: GP-10-20-009-U									
Arsenic, Total	1.60	120	132	109	137	113	80-120	4	20
Iron, Total	2000	1000	2970	97	3050	105	80-120	3	20
Total Metals - Westborough Lab Associated sample(s): 10,12,14,22 QC Batch ID: WG426479-3 WG426479-4 QC Sample: L1011870-14 Client ID: GP-10-11-064-U									
Aluminum, Total	56600	2000	54600	0	54700	0	80-120	0	20
Arsenic, Total	230	120	344	95	340	92	80-120	1	20
Calcium, Total	285000	10000	282000	0	287000	20	80-120	2	20
Chromium, Total	744	200	890	73	886	71	80-120	0	20
Iron, Total	180000	1000	172000	0	170000	0	80-120	1	20
Lead, Total	65.2	510	606	106	602	105	80-120	1	20
Magnesium, Total	30600	10000	38300	77	38700	81	80-120	1	20
Manganese, Total	7160	500	7300	28	7290	26	80-120	0	20
Nickel, Total	207	500	648	88	654	89	80-120	1	20
Potassium, Total	40200	10000	48100	79	48200	80	80-120	0	20
Sodium, Total	61200	10000	72100	109	70300	91	80-120	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 23-24,26,28 QC Batch ID: WG426592-3 WG426592-4 QC Sample: L1011870-26 Client ID: DUP2-080410-U									
Aluminum, Total	344	2000	2290	97	2230	94	80-120	3	20
Arsenic, Total	1.48	120	138	114	136	112	80-120	1	20
Calcium, Total	21600	10000	33100	115	32200	106	80-120	3	20
Chromium, Total	2.76	200	196	97	193	95	80-120	2	20
Iron, Total	1550	1000	2630	108	2600	105	80-120	1	20
Lead, Total	ND	510	565	111	563	110	80-120	0	20
Magnesium, Total	2690	10000	13100	104	13000	103	80-120	1	20
Manganese, Total	1020	500	1560	108	1530	102	80-120	2	20
Nickel, Total	8.01	500	520	102	512	101	80-120	2	20
Potassium, Total	4540	10000	15300	108	14800	103	80-120	3	20
Sodium, Total	147000	10000	162000	150	158000	110	80-120	3	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 25,27 QC Batch ID: WG426595-3 WG426595-4 QC Sample: L1011870-27 Client ID: GP-10-21-021-F									
Aluminum, Dissolved	ND	2000	1950	98	1800	90	80-120	8	20
Arsenic, Dissolved	ND	120	136	113	130	108	80-120	5	20
Calcium, Dissolved	21600	10000	33900	123	Q 30100	85	80-120	12	20
Chromium, Dissolved	ND	200	196	98	181	90	80-120	8	20
Iron, Dissolved	984	1000	2070	109	1850	87	80-120	11	20
Lead, Dissolved	ND	510	572	112	538	105	80-120	6	20
Magnesium, Dissolved	2580	10000	13300	107	12100	95	80-120	9	20
Manganese, Dissolved	1020	500	1570	110	1400	76	Q 80-120	11	20
Nickel, Dissolved	7.25	500	521	103	484	95	80-120	7	20
Potassium, Dissolved	4520	10000	15400	109	14100	96	80-120	9	20
Sodium, Dissolved	153000	10000	165000	120	151000	0	80-120	9	20
Dissolved Metals - Westborough Lab Associated sample(s): 11,13 QC Batch ID: WG428705-5 WG428705-6 QC Sample: L1011870-13 Client ID: GP-10-11-064-F									
Mercury, Dissolved	ND	1	1.276	128	Q 1.282	128	Q 80-120	0	20
Dissolved Metals - Westborough Lab Associated sample(s): 21 QC Batch ID: WG428706-3 WG428706-4 QC Sample: L1011870-21 Client ID: DUP-080410-F									
Mercury, Dissolved	ND	1	1.301	130	Q 1.292	129	Q 80-120	1	20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011870**Report Date:** 09/14/10**SAMPLE RESULTS****Lab ID:** L1011870-02**Client ID:** GP-10-19-029-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 08/03/10 15:48**Date Received:** 08/04/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	160		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.7		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-04

Date Collected: 08/03/10 16:30

Client ID: GP-10-19-039-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	89		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	5.1		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-06
Client ID: GP-10-19-046-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/03/10 17:28
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	440		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.9		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-08

Date Collected: 08/04/10 08:50

Client ID: GP-10-20-009-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	150		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-10

Date Collected: 08/04/10 09:45

Client ID: GP-10-20-019-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	16		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	1.6		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-12

Date Collected: 08/03/10 16:25

Client ID: GP-10-11-059-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	210		mg CaCO ₃ /L	2.0	NA	1	-	08/09/10 14:26	30,2320B	JO
Solids, Total Suspended	13000		mg/l	50	NA	10	-	08/09/10 17:20	30,2540D	DW
Nitrogen, Ammonia	0.0281	J	mg/l	0.075	0.017	1	08/05/10 14:10	08/10/10 01:12	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/04/10 22:37	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	180		mg/l	20	7.0	1	-	08/06/10 15:28	44,410.4	DW
Dissolved Organic Carbon	3.1		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	25		mg/l	0.50	0.07	1	-	08/05/10 14:47	44,300.0	AU
Nitrogen, Nitrate	0.04	J	mg/l	0.05	0.01	1	-	08/05/10 14:47	44,300.0	AU
Sulfate	49		mg/l	1.0	0.12	1	-	08/13/10 21:58	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-14

Date Collected: 08/04/10 13:05

Client ID: GP-10-11-064-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	380		mg CaCO3/L	2.0	NA	1	-	08/09/10 14:26	30,2320B	JO
Solids, Total Suspended	55000		mg/l	500	NA	100	-	08/09/10 17:20	30,2540D	DW
Nitrogen, Ammonia	1.29		mg/l	0.075	0.017	1	08/05/10 14:10	08/10/10 01:00	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/04/10 22:38	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	160		mg/l	20	7.0	1	-	08/06/10 15:28	44,410.4	DW
Dissolved Organic Carbon	2.8		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	22		mg/l	0.50	0.07	1	-	08/05/10 15:35	44,300.0	AU
Nitrogen, Nitrate	0.045	J	mg/l	0.05	0.01	1	-	08/05/10 15:35	44,300.0	AU
Sulfate	32		mg/l	1.0	0.12	1	-	08/13/10 22:46	44,300.0	AU



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-16
Client ID: GP-10-20-029-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 10:37
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	180		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.2		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-18
Client ID: GP-10-20-039-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 11:26
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	120		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.9		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-20
Client ID: GP-10-21-011-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 14:32
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	88		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	ND		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-28

Client ID: GP-10-21-021-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/04/10 15:15

Date Received: 08/04/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	52		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 12,14 Batch: WG426097-2										
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/04/10 22:36	30,4500NO2-B	DD
General Chemistry - Westborough Lab for sample(s): 12,14 Batch: WG426308-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.017	1	08/05/10 14:10	08/10/10 00:45	30,4500NH3-BH	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 12,14 Batch: WG426317-1										
Chloride	ND		mg/l	0.50	0.07	1	-	08/05/10 12:11	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	08/05/10 12:11	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 12,14 Batch: WG426358-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	08/06/10 15:21	44,410.4	DW
General Chemistry - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,20,28 Batch: WG426635-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/09/10 17:20	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 12,14 Batch: WG426677-1										
kalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	08/09/10 14:26	30,2320B	JO
General Chemistry - Westborough Lab for sample(s): 12,14 Batch: WG426784-1										
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
General Chemistry - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,20,28 Batch: WG427152-1										
Dissolved Organic Carbon	ND		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 12,14 Batch: WG427657-1										
Sulfate	ND		mg/l	1.0	0.12	1	-	08/13/10 17:22	44,300.0	AU

Lab Control Sample Analysis**Batch Quality Control****Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011870**Report Date:** 09/14/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12,14 Batch: WG426097-1								
Nitrogen, Nitrite	94		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 12,14 Batch: WG426308-2								
Nitrogen, Ammonia	96		-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 12,14 Batch: WG426317-2								
Chloride	95		-		90-110	-		
Nitrogen, Nitrate	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 12,14 Batch: WG426358-2								
Chemical Oxygen Demand	95		-		95-105	-		
General Chemistry - Westborough Lab Associated sample(s): 12,14 Batch: WG426677-2								
Alkalinity, Total	108		-		80-115	-		4
General Chemistry - Westborough Lab Associated sample(s): 12,14 Batch: WG426784-2								
Sulfide	87		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20,28 Batch: WG427152-2								
Dissolved Organic Carbon	98		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 12,14 Batch: WG427657-2					
Sulfate	100		90-110		

Matrix Spike Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426097-3 QC Sample: L1011870-12 Client ID: GP-10-11-059-U												
Nitrogen, Nitrite	ND	0.1	0.10	100	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426308-3 QC Sample: L1011870-14 Client ID: GP-10-11-064-U												
Nitrogen, Ammonia	1.29	4	5.24	99	-	-	-	-	80-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426317-3 WG426317-4 QC Sample: L1011870-14 Client ID: GP-10-11-064-U												
Chloride	22	4	25	75	-	26	100	-	40-151	4	-	18
Nitrogen, Nitrate	ND	0.4	0.40	100	-	0.41	102	-	80-122	2	-	15
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426358-3 QC Sample: L1011792-02 Client ID: MS Sample												
Chemical Oxygen Demand	ND	238	240	102	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426677-4 QC Sample: L1011910-01 Client ID: MS Sample												
Alkalinity, Total	26	100	130	106	-	-	-	-	86-116	-	-	4
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426784-3 QC Sample: L1011870-14 Client ID: GP-10-11-064-U												
Sulfide	ND	0.24	0.23	96	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20,28 QC Batch ID: WG427152-3 QC Sample: L1011870-08 Client ID: GP-10-20-009-U												
Dissolved Organic Carbon	1.2	4	5.0	96	-	-	-	-	79-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG427657-3 WG427657-4 QC Sample: L1011870-14 Client ID: GP-10-11-064-U												
Sulfate	32	8	39	88	-	40	100	-	60-140	3	-	20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1011870

Report Date: 09/14/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426097-4 QC Sample: L1011870-14 Client ID: GP-10-11-064-U						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426308-4 QC Sample: L1011870-14 Client ID: GP-10-11-064-U						
Nitrogen, Ammonia	1.29	1.27	mg/l	2		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426317-5 QC Sample: L1011870-14 Client ID: GP-10-11-064-U						
Chloride	22	22	mg/l	0		18
Nitrogen, Nitrate	0.045J	0.047J	mg/l	NC		15
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426358-4 QC Sample: L1011792-02 Client ID: DUP Sample						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20,28 QC Batch ID: WG426635-2 QC Sample: L1011870-14 Client ID: GP-10-11-064-U						
Solids, Total Suspended	55000	48000	mg/l	14		32
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426677-3 QC Sample: L1011910-04 Client ID: DUP Sample						
Alkalinity, Total	33	31	mg CaCO3/L	6	Q	4
General Chemistry - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG426784-4 QC Sample: L1011870-14 Client ID: GP-10-11-064-U						
Sulfide	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20,28 QC Batch ID: WG427152-4 QC Sample: L1011870-10 Client ID: GP-10-20-019-U						
Dissolved Organic Carbon	1.6	1.6	mg/l	0		20

Project Name: SHL TASK 0002
Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1011870
Report Date: 09/14/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 12,14 QC Batch ID: WG427657-5 QC Sample: L1011870-14 Client ID: GP-10-11-064-U					
Sulfate	32.	33	mg/l	3	20

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

B	Present/Intact
C	Present/Intact
A	Present/Intact
D	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-01A	Plastic 500ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-02A	Plastic 1000ml unpreserved	C	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-02B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-02C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-02D	Plastic 250ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-02X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-03A	Plastic 500ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-04A	Plastic 1000ml unpreserved	C	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-04B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-04C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-04D	Plastic 250ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-04X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-05A	Plastic 500ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-06A	Plastic 1000ml unpreserved	A	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-06B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-06C	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-06D	Plastic 250ml HNO3 preserved	A	<2	4.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-06X	Amber 250ml unpreserved	C	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-07A	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-07B	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-08A	Plastic 1000ml unpreserved	B	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-08B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-08C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-08D	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-08E	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-08X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-09A	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011870-10A	Plastic 1000ml unpreserved	B	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-10B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-10C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-10D	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-10X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-11A	Plastic 250ml HNO3 preserved	A	<2	4.8	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-12A	Plastic 500ml unpreserved	A	6	4.8	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011870-12B	Plastic 250ml unpreserved	C	6	4.8	Y	Present/Intact	NO2-4500NO2(2)
L1011870-12C	Plastic 250ml unpreserved	C	N/A	4.8	Y	Present/Intact	ALK-T-2320(14)
L1011870-12D	Plastic 500ml H2SO4 preserved	A	<2	4.8	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011870-12E	Plastic 250ml Zn Acetate/NaOH pr	C	>12	4.8	Y	Present/Intact	SULFIDE-4500(7)
L1011870-12F	Plastic 250ml Zn Acetate/NaOH pr	A	>12	4.8	Y	Present/Intact	SULFIDE-4500(7)
L1011870-12G	Plastic 250ml Zn Acetate/NaOH pr	A	>12	4.8	Y	Present/Intact	SULFIDE-4500(7)
L1011870-12H	Plastic 1000ml unpreserved	C	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-12J	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-12K	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-12M	Plastic 250ml HNO3 preserved	A	<2	4.8	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-12X	Amber 250ml unpreserved	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-13A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011870

Report Date: 09/14/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-13B	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011870-14A	Plastic 500ml unpreserved	C	6	4.8	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011870-14B	Plastic 250ml unpreserved	B	6	2.3	Y	Present/Intact	NO2-4500NO2(2)
L1011870-14C	Plastic 250ml unpreserved	B	6	2.3	Y	Present/Intact	ALK-T-2320(14)
L1011870-14D	Plastic 500ml H2SO4 preserved	C	<2	4.8	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011870-14E	Plastic 250ml Zn Acetate/NaOH pr	D	>12	2	Y	Present/Intact	SULFIDE-4500(7)
L1011870-14F	Plastic 250ml Zn Acetate/NaOH pr	D	>12	2	Y	Present/Intact	SULFIDE-4500(7)
L1011870-14G	Plastic 250ml Zn Acetate/NaOH pr	D	>12	2	Y	Present/Intact	SULFIDE-4500(7)
L1011870-14H	Plastic 1000ml unpreserved	C	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-14J	Vial H2SO4 preserved split	C	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-14K	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-14M	Plastic 250ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-14N	Plastic 500ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-14X	Amber 250ml unpreserved	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-15A	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-16A	Plastic 1000ml unpreserved	B	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-16B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-16C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-16D	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-16X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-17A	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-18A	Plastic 1000ml unpreserved	B	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-18B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-18C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-18D	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-18X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-19A	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-20A	Plastic 1000ml unpreserved	B	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-20B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-20C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-20D	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-20X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-21A	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011870-22A	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-23A	Plastic 250ml HNO3 preserved	B	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011870-24A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-25A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011870-26A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-27A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011870-28A	Plastic 1000ml unpreserved	D	6	2	Y	Present/Intact	TSS-2540(7)
L1011870-28B	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	DOC-5310(28)
L1011870-28C	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	DOC-5310(28)
L1011870-28D	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011870-28X	Amber 250ml unpreserved	D	6	2	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCS-D - Laboratory Control Sample Duplicate: Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MS-D - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

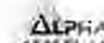
Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002

Lab Number: L1011870

Project Number: AC001

Report Date: 09/14/10

Data Qualifiers

- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TIC's).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011870
Report Date: 09/14/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform - Colilert (SM9223 P/A), E. Coli - Colilert (SM9223 P/A), HPC - Pour Plate (SM9215B), Fecal Coliform - MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform - MF mEndo (SM9222B), Total Coliform - MTF (SM9221B), HPC - Pour Plate (SM9215B), Fecal Coliform - MF m-FC (SM9222D), Fecal Coliform - A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Bc,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Bc,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Bc,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Bc,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. **Organic Parameters:** 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. **Organic Parameters:** SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. **Organic Parameters:** SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. **Organic Parameters:** 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S₂-D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. **Organic Parameters:** SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. **Organic Parameters:** SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. **Organic Parameters:** EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. **Organic Parameters:** 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. **Organic Parameters:** EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, **Organic Parameters:** EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3258

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 8/4/10

ALPHA Job # L101870

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St
Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmcbain@sovercon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed 2 pre-approved)

Date Due:

Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info ☐ PO #

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 23 - Closed

* Done as noted F = Filtered

#1 Metals = As, Fe

#2 Metals = As, Fe, Mn, Al, Cr, Pb, Ni, Mo, Cu, K

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS						SAMPLE HANDLING	TOTAL # BOTTLES
		Date	Time			TS	DGC + DIC	Tot Metals #1	Diss Metals #1	Tot Metals #2	Diss Metals #2		
1870-01	GP-10-19-029-F	8/3/10	1548	GW	JAR							Filtration <input checked="" type="checkbox"/> Done + <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below)	1
02	GP-10-19-029-L1	8/3/10	1548	GW	JAR	✓	✓	✓					3
03	GP-10-19-039-F	8/3/10	1630	GW	JAR								1
04	GP-10-19-039-L1	8/3/10	1630	GW	JAR	✓	✓	✓					3
05	GP-10-19-046-F	8/3/10	1728	GW	JAR								1
06	GP-10-19-046-L1	8/3/10	1728	GW	JAR	✓	✓	✓					3
07	GP-10-20-009-F	8/4/10	0850	GW	JAR							MS/MSD metals only	2
08	GP-10-20-009-L1	8/4/10	0850	GW	JAR	✓	✓	✓				MS/MSD metals only	4
09	GP-10-20-019-F	8/4/10	0945	GW	JAR								1
10	GP-10-20-019-L1	8/4/10	0945	GW	JAR	✓	✓	✓					3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P A P P P P

Preservative A A C C C C

Relinquished By:

Date/Time

Received By:

Date/Time


Phil McBain
8/4/10 1650


8/4/10 1650

Phil McBain
8/4/10 1650

8/4/10 1650

Please print clearly, legibly, and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY						PAGE 3 OF 3		Date Rec'd in Lab 8/4/10		ALPHA Job # L181870																																																																																																																																																														
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CHAIN OF CUSTODY					PAGE 1 OF 3		Date Rec'd in Lab: 8/4/10		ALPHA Job #									
 <p>WESTBORD, MA TEL: 508-896-9220 FAX: 508-896-9153</p>		<p>MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288</p>		Project Information Project Name: <u>SHL</u> Project Location: <u>Ayer MA</u> Project #: <u>AC001</u> Project Manager: <u>Phil McBain</u> ALPHA Quote #: _____		Report Information - Data Deliverables <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <u>EDR</u> <input type="checkbox"/> ADEX <input type="checkbox"/> Add'l Deliverables		Billing Information <input type="checkbox"/> Same as Client Info <input type="checkbox"/> PO #: _____										
Client Information Client: <u>Sovereign Consulting Inc</u> Address: <u>905 B S. Main St</u> <u>Mansfield MA 02048</u> Phone: <u>508-339-3300</u> Fax: <u>508-339-3248</u> Email: <u>pmc@scn.com</u>					Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved) Date Due: _____ Time: _____		Regulatory Requirements/Report Limits State /Fed Program _____ Criteria <u>SEE QAPP</u>											
Other Project Specific Requirements/Comments/Detection Limits: If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples) <u>SDG# 23 - Closed</u> * Done as noted F= Filtered <u>#1 Metals = As, Fe</u> <u>#2 Metals = As, Fe, Mn, Al, Cr, Pb, Hg, Ni, Cu, K</u>					MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required?		SAMPLE HANDLING Filtration: _____ <input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below)											
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		GP-10-19-029-F		8/3/10 1548		GW		JAR						1				
		GP-10-19-029-U		8/3/10 1548		GW		JAR		✓ ✓ ✓				3				
		GP-10-19-039-F		8/3/10 1630		GW		JAR				✓		1				
		GP-10-19-039-U		8/3/10 1630		GW		JAR		✓ ✓ ✓				3				
		GP-10-19-046-F		8/3/10 157058		GW		JAR				✓		1				
		GP-10-19-046-U		8/3/10 157058		GW		JAR		✓ ✓ ✓				3				
		GP-10-20-009-F		8/4/10 16850		GW		JAR				✓		MS/MSD Metals only 2				
		GP-10-20-009-U		8/4/10 0850		GW		JAR		✓ ✓ ✓				MS/MSD Metals only 4				
		GP-10-20-019-F		8/4/10 0945		GW		JAR				✓		1				
		GP-10-20-019-U		8/4/10 0945		GW		JAR		✓ ✓		✓		3				
PLEASE ANSWER QUESTIONS ABOVE!					Container Type		Preservative		IS YOUR PROJECT MA MCP or CT RCP?		Relinquished By: <u>Phil McBain</u> <u>8/4/10 1650</u>		Date/Time <u>8/4/10 1600</u>		Received By: <u>Phil McBain</u> <u>8/4/10 1650</u>		Date/Time <u>8/4/10 1650</u>	
FORM NO: 01-01 (rev. 18-Jan-2010)					Please print clearly, legibly and completely. Samples can not be logged in and to around time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.													



WESTBORO, MA
TEL: 508-858-8220
FAX: 508-858-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 CF 3

Date Rec'd in Lab: 8/4/10

ALPHA Job #

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmetbun@svcon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Report Information - Data Deliverables

☐ FAX

☐ ADEX

☒ EMAIL EDR

☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☐ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDGH 29 - closed

* Done as noted - F = Filtered

#1 Metals = As, Fe, #2 Metals = As, Fe, Mn, Al, Cr, Pb, Ni, V, Co, K

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Cl	NO ₂	Alk	NH ₄	Sulfide	TSS	DOC	Total N	Diss. P	Total P	Diss. Si	(Please specify below)		Sample Specific Comments	L S M
		Date	Time																	
	GP-10-11-059-F	8/3/10	1625	GW	JSC										✓					1
	GP-10-11-059-U	8/3/10	1625	GW	JSC	✓	✓	✓	✓	✓	✓	✓	✓							10
	GP-10-11-064-F	8/4/10	1305	GW	JSC										✓			MS/MSD metals only		2
	GP-10-11-064-U	8/4/10	1305	GW	JSC	✓	✓	✓	✓	✓	✓	✓	✓					MS/MSD metals only		10
	GP-10-20-029-F ^(DOW)	8/4/10	1037	GW	JAR												✓			1
	GP-10-20-029-U	8/4/10	1037	GW	JAR						✓	✓			✓					3
	GP-10-20-039-F	8/4/10	1126	GW	JAR												✓			1
	GP-10-20-039-U	8/4/10	1126	GW	JAR						✓	✓			✓					3
	GP-10-21-011-F	8/4/10	1432	GW	JAR															1
	GP-10-21-011-U	8/4/10	1432	GW	JAR						✓	✓			✓					3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type

Preservative

P P P P P P A P P P P
A A A D K/E A A C C C C

Relinquished By:

Date/Time

Received By:

Date/Time


Phil McBain
8/4/10


8/4/10


Phil McBain
8/4/10


8/4/10

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CHAIN OF CUSTODY		PAGE 3 OF 3		Date Rec'd in Lab: 8/4/10		ALPHA Job #:	
 <p>WESTBORO, MA TEL: 508-888-9220 FAX: 508-888-9193</p> <p>MANFIELD, MA TEL: 508-822-9300 FAX: 508-822-3268</p>		Project Information Project Name: <u>SHL</u> Project Location: <u>Ayer, MA</u> Project #: <u>AC001</u> Project Manager: <u>Phil McBain</u> ALPHA Quote #:		Report Information - Data Deliverables <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <u>EDR</u> <input type="checkbox"/> ADEx <input type="checkbox"/> Add'l Deliverables		Billing Information <input type="checkbox"/> Same as Client info <input type="checkbox"/> PO #:	
Client Information Client: <u>Sovereign Consulting Inc.</u> Address: <u>905 B S. Main St</u> <u>Manfield MA 02048</u> Phone: <u>508-339-3200</u> Fax: <u>508-339-3248</u> Email: <u>pmc@sovereign.com</u>		Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved) Date Due: Time:		Regulatory Requirements/Report Limits State/Fed Program: Criteria <u>SEE QAA</u>		MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required?	
<input type="checkbox"/> These samples have been previously analyzed by Alpha		Other Project Specific Requirements/Comments/Detection Limits: If MS is required, indicate in Sample Specific Comments which samples and what tests MS'd to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples) <u>SDG# 23 - Closed</u> * Done as Noted - F = Filtered <u>H1 Metals = As, Fe H2 Metals = As, Fe, Mn, Al, Cr, Pb, Ni, Zn, Cu, K</u>		ANALYSIS TSS <input checked="" type="checkbox"/> DOC <input checked="" type="checkbox"/> DIC Tot Metals #1 <input checked="" type="checkbox"/> Ds Metals #1 <input checked="" type="checkbox"/> Tot Metals #2 <input checked="" type="checkbox"/> Ds Metals #2 <input checked="" type="checkbox"/>		SAMPLE HANDLING Filtration <input checked="" type="checkbox"/> Done * <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below)	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	
	DUP-080410-F	8/4/10	0945	GW	JAR	✓	
	DUP-080410-U	8/4/10	0945	GW	JAR	✓	
	RB-080410-U	8/4/10	1100	GW	JAR	✓	
	RB2-080810-U	8/4/10	1440	GW	JJC	✓	
	DUP2-080410-F	8/4/10	1515	GW	JAR	✓	
	DUP2-080410-U	8/4/10	1515	GW	JAR	✓	
	GP-10-21-021-F	8/4/10	1515	GW	JAR	✓	
	GP-10-21-021-U	8/4/10	1515	GW	JAR	✓	
PLEASE ANSWER QUESTIONS ABOVE:		Container Type		P A P P P P		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.	
IS YOUR PROJECT MA MCP or CT RCP?		Preservative		A A C C C C			
Relinquished By: <u>Phil McBain</u>		Date/Time: <u>8/4/10 1600</u>		Received By: <u>Phil McBain</u>		Date/Time: <u>8-4-10 1650</u>	
FORM NO: 01-01 (REV. 18-Jan-2010)							

CHAIN OF CUSTODY						PAGE 1 OF 3		Date Rec'd in Lab: 8/4/10		ALPHA Job #							
 WESTBORO, MA TEL: 508-899-9220 FAX: 508-899-9193		MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3285		Project Information Project Name: <u>SHL</u> Project Location: <u>Ayer, MA</u> Project #: <u>AC001</u> Project Manager: <u>Phil McBain</u> ALPHA Quote #:		Report Information - Data Deliverables <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <u>EDR</u> <input type="checkbox"/> ADEX <input type="checkbox"/> Add'l Deliverables		Billing Information <input type="checkbox"/> Same as Client info <input type="checkbox"/> PO #:									
Client Information Client: <u>Sovereign Consulting, Inc</u> Address: <u>905 B S. Main St</u> <u>Mansfield, MA 02048</u> Phone: <u>508-339-3200</u> Fax: <u>508-339-3248</u> Email: <u>pmc@scv.com</u>				Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved!) Date Due: Time:		Regulatory Requirements/Report Limits State/Fed Program: <u>Criteria SEE QAPP</u> MA MCP PRESUMPTIVE CERTAINTY — CT REASONABLE CONFIDENCE PROTO <input type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required?											
Other Project Specific Requirements/Comments/Detection Limits: * MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples) <u>SDG# 23 - Closed</u> * Done as noted F: Filtered <u>#1 Metals = As, Fe</u> <u>#2 Metals = As, Fe, Mn, Al, Cr, Pb, Cu, Ni, Zn, Hg</u>						ANALYSIS TSS <input checked="" type="checkbox"/> DOC + DIC <input checked="" type="checkbox"/> T _{urb} Metals #1 <input checked="" type="checkbox"/> Diss Metals #1 <input checked="" type="checkbox"/> T _{urb} Metals #2 <input checked="" type="checkbox"/> Diss Metals #2		SAMPLE HANDLING Filtration: <input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify color)									
Alpha Lab ID (Use Only)						Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Sample Specific Comments		TOTAL # BOTTLES	
						GP-10-19-029-F		8/3/10 1548		GW		JAR				1	
						GP-10-19-029-U		8/3/10 1548		GW		JAR		✓ ✓ ✓		3	
						GP-10-19-039-F		8/3/10 1630		GW		JAR		✓		1	
						GP-10-19-039-U		8/3/10 1630		GW		JAR		✓ ✓ ✓		3	
						GP-10-19-046-F		8/3/10 15258		GW		JAR		✓		1	
						GP-10-19-046-U		8/3/10 15258		GW		JAR		✓ ✓ ✓		3	
						GP-10-20-009-F		8/4/10 10850		GW		JAR		✓		2	
						GP-10-20-009-U		8/4/10 0850		GW		JAR		✓ ✓ ✓		4	
						GP-10-20-019-F		8/4/10 0945		GW		JAR		✓		1	
						GP-10-20-019-U		8/4/10 0945		GW		JAR		✓ ✓ ✓		3	
PLEASE ANSWER QUESTIONS ABOVE!						Container Type		Preservative		Refinishing By:		Date/Time:		Received By:		Date/Time:	
IS YOUR PROJECT MA MCP or CT RCP?						P A P P P P		A A C C C C		[Signature]		8/4/10 1600		[Signature]		8/4/10 1600	
FORM NO: 01-01 (rev. 15-Jan-2010)						[Signature]		8/4/10 1650		[Signature]		8/4/10 1650		[Signature]		8/4/10 1650	

 CHAIN OF CUSTODY		PAGE <u>2</u> OF <u>3</u>		Date Rec'd in Lab: <u>8/4/10</u>		ALPHA Job #	
Project Information Project Name: <u>SHL</u> Project Location: <u>Ayer MA</u> Project #: <u>AC001</u> Project Manager: <u>Phil McBain</u> ALPHA Quote #:		Report Information - Data Deliverables <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <u>EDR</u> <input type="checkbox"/> ADEx <input type="checkbox"/> Add'l Deliverables		Billing Information <input type="checkbox"/> Same as Client info <input type="checkbox"/> PO #:			
Client Information Client: <u>Sovereign Consulting Inc</u> Address: <u>905 B S. Main St</u> <u>Mansfield MA 02048</u> Phone: <u>508-334-3200</u> Fax: <u>508-334-3248</u> Email: <u>pmc@scn.com</u>		Regulatory Requirements/Report Limits State/Fed Program <input type="checkbox"/> Criteria: <u>SEE QAPP</u>		MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required?			
Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved)		Other Project Specific Requirements/Comments/Detection Limits: If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples) <u>SDGH 29 - Closed</u> <u>* Done as noted - F = Filtered</u> <u>#1 Metals = As, Fe, 42 Metals = Ag, Fe, Mn, Al, Cr, Pb, Ni, Cu, K</u>		SAMPLE HANDLING Filtration: <input checked="" type="checkbox"/> Done * <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation: <input type="checkbox"/> Lab to do (Please specify below)			
ALPHA Lab ID (Lab Use Only)		Collection Date Time		Sample Matrix		Sampler's Initials	
Sample ID		Date Time		Matrix		Initials	
GP-10-11-054-F		8/3/10 1625		GW		JJC	
GP-10-11-054-U		8/3/10 1625		GW		JJC	
GP-10-11-064-F		8/4/10 1305		GW		JJC	
GP-10-11-064-U		8/4/10 1305		GW		JJC	
GP-10-20-029-F		8/4/10 1037		GW		JAR	
GP-10-20-029-U		8/4/10 1037		GW		JAR	
GP-10-20-039-F		8/4/10 1126		GW		JAR	
GP-10-20-039-U		8/4/10 1126		GW		JAR	
GP-10-21-011-F		8/4/10 1432		GW		JAR	
GP-10-21-011-U		8/4/10 1432		GW		JAR	
PLEASE ANSWER QUESTIONS ABOVE		Container Type		Preservative		IS YOUR PROJECT MA MCP or CT RCP?	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>8/4/10 1600</u>		Received By: <u>[Signature]</u>		Date/Time: <u>8/4/10 1600</u>	
Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>	

CHAIN OF CUSTODY						PAGE 3 OF 3		Date Rec'd in Lab: 8/4/10		ALPHA Job #: L1511872		
 WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-3193		MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>SHL</u> Project Location: <u>Ayer, MA</u> Project #: <u>AC001</u> Project Manager: <u>Phil McBain</u> ALPHA Quote #:		Report Information - Data Deliverables <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <u>EDR</u> <input type="checkbox"/> ADEx <input type="checkbox"/> Add'l Deliverables		Billing Information <input type="checkbox"/> Same as Client info <input type="checkbox"/> PO #:				
Client Information Client: <u>Sovereign Consulting Inc</u> Address: <u>905 B S. Main St</u> <u>Mansfield MA 02048</u> Phone: <u>508-339-3200</u> Fax: <u>508-339-3248</u> Email: <u>pmbain@sovercon.com</u>		Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved)		Regulatory Requirements/Report Limits State/Fed Program: Criteria: <u>SEE QAA</u>		MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocol) Required?						
<input type="checkbox"/> These samples have been previously analyzed by Alpha		Other Project Specific Requirements/Comments/Detection Limits: If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples) <u>SDG# 23 - Closed</u> * Done as noted - F-F Filtered <u>H1 Metals = As, Pb</u> <u>H2 Metals = As, Fe, Mn, Al, Cr, Pb, Ni, Ni, Co, K</u>		ANALYSIS TSS <input checked="" type="checkbox"/> DOC <input checked="" type="checkbox"/> DIC Tot Metals #1 <input checked="" type="checkbox"/> Dis Metals #1 <input checked="" type="checkbox"/> Tot Metals #2 <input checked="" type="checkbox"/> Dis Metals #2 <input checked="" type="checkbox"/>		SAMPLE HANDLING Filtration <input checked="" type="checkbox"/> Done * <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)		TOTAL BOTTLES				
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix			Sampler's Initials		Sample Specific Comments	
15870-21		DUP-080410-F		8/4/10 0945		GW		JAR		✓ - TAL METALS		1
22		DUP-080410-LI		8/4/10 0945		GW		JAR		✓		1
243		RB-080410-LI		8/4/10 1100		GW		JAR		✓		1
254		RB2-080410-LI		8/4/10 1400		GW		JJC		✓		1
255		DUP2-080410-F		8/4/10 1515		GW		JAR		✓		1
256		DUP2-080410-LI		8/4/10 1515		GW		JAR		✓		1
27		GP-10-21-021-F		8/4/10 1515		GW		JAR		✓		1
28		GP-10-21-021-LI		8/4/10 1515		GW		JAR		✓		3
PLEASE ANSWER QUESTIONS ABOVE!												
IS YOUR PROJECT MA MCP or CT RCP?				Container Type: P A P P P P Preservative: A A C C C C		Relinquished By: <u>Phil McBain</u> Date/Time: <u>8/4/10 1600</u> <u>8-4-10 1650</u>		Received By: <u>Phil McBain</u> Date/Time: <u>8-4-10 1600</u> <u>8/4/10 1650</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.		



ANALYTICAL REPORT

Lab Number: L1011879

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/11/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011879-01	GP-10-19-029-U	DEVENS, MA	08/03/10 15:48
L1011879-02	GP-10-19-039-U	DEVENS, MA	08/03/10 16:30
L1011879-03	GP-10-19-046-U	DEVENS, MA	08/03/10 17:28
L1011879-04	GP-10-20-009-U	DEVENS, MA	08/04/10 08:50
L1011879-05	GP-10-20-019-U	DEVENS, MA	08/04/10 09:45
L1011879-06	GP-10-11-059-U	DEVENS, MA	08/03/10 16:25
L1011879-07	GP-10-11-064-U	DEVENS, MA	08/04/10 13:05
L1011879-08	GP-10-20-029-U	DEVENS, MA	08/04/10 10:37
L1011879-09	GP-10-20-039-U	DEVENS, MA	08/04/10 11:26
L1011879-10	GP-10-21-011-U	DEVENS, MA	08/04/10 14:32
L1011879-11	GP-10-21-021-U	DEVENS, MA	08/04/10 15:15

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the Dissolved Inorganic Carbon results only. The results of all other requested analyses will be issued under separate cover.

Sample Receipt

The samples "GP-10-19-029-U" and "GP-10-19-039-U" were received at the laboratory requiring filtration for Dissolved Inorganic Carbon; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

Dissolved Inorganic Carbon

L1011879-01, -02, -03, -05 through -09 and -11 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

Case Narrative (continued)

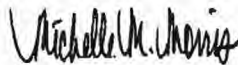
L1011879-04 and -10 have elevated detection limits due to the dilutions required by the sample matrices.

WG426759: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD.

The Filter Blank result is reported from an analysis where the CCB after the sequence failed high, but re-analysis could not be performed due to limited sample volume.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/11/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-01
Client ID: GP-10-19-029-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/03/10 15:48
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	62		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-02
Client ID: GP-10-19-039-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/03/10 16:30
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	71		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011879

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-03

Client ID: GP-10-19-046-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/03/10 17:28

Date Received: 08/04/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	85		mg/l	20	—	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-04
Client ID: GP-10-20-009-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 08:50
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	9.8		mg/l	8.0	--	8	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-05

Date Collected: 08/04/10 09:45

Client ID: GP-10-20-019-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	37		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011879

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-06

Client ID: GP-10-11-059-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/03/10 16:25

Date Received: 08/04/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	37		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-07

Date Collected: 08/04/10 13:05

Client ID: GP-10-11-064-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	44		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-08

Date Collected: 08/04/10 10:37

Client ID: GP-10-20-029-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	61		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-09

Date Collected: 08/04/10 11:26

Client ID: GP-10-20-039-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	82		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-10

Date Collected: 08/04/10 14:32

Client ID: GP-10-21-011-U

Date Received: 08/04/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	9.1		mg/l	8.0	--	8	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011879
Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-11
Client ID: GP-10-21-021-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 15:15
Date Received: 08/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	27		mg/l	20	--	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-11 Batch: WG426759-1										
Dissolved Inorganic Carbon	ND		mg/l	1.0	--	1	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Lab Control Sample Analysis
Batch Quality Control**Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011879**Report Date:** 08/11/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Associated sample(s): 01-11 Batch: WG426759-2

Dissolved Inorganic Carbon

98

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1011879

Report Date: 08/11/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-11 QC Batch ID: WG426759-3 QC Sample: L1011879-01 Client ID: GP-10-19-029-U						
Dissolved Inorganic Carbon	62	53	mg/l	16		

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B Present/Intact
 C Present/Intact
 A Present/Intact
 D Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011879-01A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-01B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-01X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-02A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-02B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-02X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-03A	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-03B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-03X	Amber 250ml unpreserved	C	6	4.8	Y	Present/Intact	SPECWC()
L1011879-04A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-04B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-04X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-05A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-05B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-05X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-06A	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-06B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-06X	Amber 250ml unpreserved	C	6	4.8	Y	Present/Intact	SPECWC()
L1011879-07A	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-07B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-07X	Amber 250ml unpreserved	C	6	4.8	Y	Present/Intact	SPECWC()
L1011879-08A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-08B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011879-08X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-09A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-09B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-09X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-10A	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-10B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-10X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-11A	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	SPECWC()
L1011879-11B	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	SPECWC()
L1011879-11X	Amber 250ml unpreserved	D	6	2	Y	Present/Intact	SPECWC()

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

GLOSSARY

Acronyms

EPA	Environmental Protection Agency.
LCS	Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	Laboratory Control Sample Duplicate: Refer to LCS.
MDL	Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MS D	Matrix Spike Sample Duplicate: Refer to MS.
NA	Not Applicable.
NC	Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	Not Ignitable.
RL	Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: SHL TASK 0002

Lab Number: L1011879

Project Number: AC001

Report Date: 08/11/10

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574 *NELAP Accredited Solid Waste/Soil.*

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.***Drinking Water***

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500Cl-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500Cl-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev 7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA-3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2_D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S Main St
Mansfield MA 02048

Phone: 508-339-3200

Fax: 508 - 339 - 3248

Email: amickbain@gmail.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ **RUSH** (only confirmed if pre-approved!)

Date Due:

Time:

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 23 - Closed

* Done as noted F = Filtered

Metals: Al , Fe

22 Metals = As, Fe, Mn, Al, Cr, Pb, Ni, Na, Ca, Mg

[illegible]

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Container Type

Preservative

Date/Time

Received By:

Date/Time



WESTBORD, MA
TEL: 508-895-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Received: _____

ALPHA ID: _____

Project Information

Project Name: SHL

Project Location: Ayer MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: _____

Time: _____

Report Information - Data Deliverables

☐ FAX

☒ EMAIL EDR

☐ ADEX

☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #: _____

Regulatory Requirements/Report Limits

State / Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☐ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield MA 02048

Phone: 508-334-3200

Fax: 508-334-3248

Email: pmc@sovercon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDGH 23 - closed

* Done as noted - F: Filtered

#1 Metals = As, Fe, #2 Metals = As, Fe, Ni, Al, Cr, Pb, Mn, No, Cu, K

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	(Please specify below)												Sample Specific Comments							
		Date	Time			Cl	No2	Alk	NH4	Sulf	TSS	DOC	Total	Diss	Total	Diss									
	GP-10-11-059-F	8/3/10	1625	GW	JJC																			1	
11879-06	GP-10-11-059-U	8/3/10	1625	GW	JJC	✓	✓	✓	✓	✓	✓	✓	✓	✓											10
	GP-10-11-064-F	8/4/10	1305	GW	JJC																	MS/MSD metals only			2
	GP-10-11-064-U	8/4/10	1305	GW	JJC	✓	✓	✓	✓	✓	✓	✓	✓	✓								MS/MSD metals only			10
	GP-10-20-029-F (030)	8/4/10	1037	GW	JAR																				1
	GP-10-20-029-U	8/4/10	1037	GW	JAR									✓	✓										3
	GP-10-20-039-F	8/4/10	1126	GW	JAR																				1
	GP-10-20-039-U	8/4/10	1126	GW	JAR									✓	✓										3
	GP-10-21-011-F	8/4/10	1432	GW	JAR																				1
	GP-10-21-011-U	8/4/10	1432	GW	JAR									✓	✓										3

PLEASE ANSWER QUESTIONS ABOVE!

Container Type

P P P P P P A P P P P

Preservative

A A A D ME A A C C C C

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: _____

Date/Time

Received By: _____

Date/Time



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9183

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3266

CHAIN OF CUSTODY

PAGE 3 OF 3

Project Information

Project Name: SHL
Project Location: Ayer MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Client Information

Client: Sovereign Consulting Inc
Address: 905 B S. Main St
Mansfield MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: phil@sovercan.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 23 - Closed * Done as Noted - F = Filtered
#1 Metals = As, Fe #2 Metals = As, Fe, Mn, Al, Co, Pb, Ni, Zn, Cu, K

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
	DUP-080410-F	8/4/10	0945	GW	JAR
	DUP-080410-U	8/4/10	0945	GW	JAR
	RB-080410-U	8/4/10	1100	GW	JAR
	RB2-080410-U	8/4/10	1440	GW	JJC
	DUP2-080410-F	8/4/10	1515	GW	JAR
	DUP2-080410-U	8/4/10	1515	GW	JAR
	GP-10-21-021-F	8/4/10	1515	GW	JAR
	GP-10-21-021-U	8/4/10	1515	GW	JAR

Date Rec'd in Lab

ALPHA Job #

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria SEE QAA

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS		SAMPLE HANDLING										TOTAL # BOTTLES
TSS DOC 1 DIC Tot Metals #1 Dis Metals #1 Tot Metals #2 Dis Metals #2		Filtration _____ <input checked="" type="checkbox"/> Done ★ <input type="checkbox"/> Not needed Preservation _____ <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below)										
		Sample Specific Comments										
1	1	1	1	1	1	1	1	1	1	1	1	1
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PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P A P P P P
Preservative A A C C C C

Relinquished By:

Date/Time

Received By:

Date/Time



ANALYTICAL REPORT

Lab Number: L1011964

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/30/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011964-01	GP-10-21-031-F	DEVENS, MA	08/04/10 15:57
L1011964-02	GP-10-21-031-U	DEVENS, MA	08/04/10 15:57
L1011964-03	GP-10-21-041-F	DEVENS, MA	08/04/10 16:35
L1011964-04	GP-10-21-041-U	DEVENS, MA	08/04/10 16:35
L1011964-05	GP-10-21-051-F	DEVENS, MA	08/04/10 17:30
L1011964-06	GP-10-21-051-U	DEVENS, MA	08/04/10 17:30
L1011964-07	GP-10-21-060-F	DEVENS, MA	08/04/10 18:26
L1011964-08	GP-10-21-060-U	DEVENS, MA	08/04/10 18:26
L1011964-09	GP-10-23-017-F	DEVENS, MA	08/05/10 10:28
L1011964-10	GP-10-23-017-U	DEVENS, MA	08/05/10 10:28
L1011964-11	GP-10-23-027-F	DEVENS, MA	08/05/10 11:17
L1011964-12	GP-10-23-027-U	DEVENS, MA	08/05/10 11:17
L1011964-13	GP-10-23-037-F	DEVENS, MA	08/05/10 12:02
L1011964-14	GP-10-23-037-U	DEVENS, MA	08/05/10 12:02
L1011964-15	GP-10-23-047-F	DEVENS, MA	08/05/10 13:46
L1011964-16	GP-10-23-047-U	DEVENS, MA	08/05/10 13:46
L1011964-17	GP-10-12-044-F	DEVENS, MA	08/05/10 12:00
L1011964-18	GP-10-12-044-U	DEVENS, MA	08/05/10 12:00
L1011964-19	GP-10-12-054-F	DEVENS, MA	08/05/10 14:15
L1011964-20	DUP-080510-F	DEVENS, MA	08/05/10 10:28
L1011964-21	DUP-080510-U	DEVENS, MA	08/05/10 10:28
L1011964-22	DUP2-080510-F	DEVENS, MA	08/05/10 14:36
L1011964-23	DUP2-080510-U	DEVENS, MA	08/05/10 14:36
L1011964-24	RB-080510-U	DEVENS, MA	08/05/10 12:15
L1011964-25	RB2-080510-U	DEVENS, MA	08/05/10 15:20
L1011964-26	GP-10-23-057-F	DEVENS, MA	08/05/10 14:36
L1011964-27	GP-10-23-057-U	DEVENS, MA	08/05/10 14:36

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Dissolved Inorganic Carbon results will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Samples "GP-10-21-031-U", "GP-10-21-041-U", "GP-10-21-051-U" and "GP-10-21-060-U" were received at the laboratory requiring filtration for Dissolved Organic Carbon analysis; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

Case Narrative (continued)

preserved appropriately.

Dissolved Metals

L1011964-01, -03, -05, -07, -11, -15 and -26 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes.

L1011964-17, -19 and -22 have elevated detection limits for all analytes, except Mercury, due to the dilutions required by the high concentrations of target analytes.

The WG426598-3/-4 MS/MSD recoveries for Sodium (40%/50%), performed on L1011964-11, are invalid because the sample concentration is greater than four times the spike amount added.

The WG426598-5 Post Digestion Spike recovery for Sodium was outside the DoD acceptance criteria of 75-125%; therefore, the parent sample (L1011964-11) is qualified with a "J" for this element.

The WG428707-4 MS recovery, performed on L1011964-19, is above the acceptance criteria for Mercury (132%). A post digestion spike was performed with an acceptable recovery of 119%.

Total Metals

L1011964-02, -04, -06, -08, -12, -16, -18, -23 and -27 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes.

The WG426597-3/-4 MS/MSD recoveries for Sodium (0%/60%), performed on L1011964-12, are invalid because the sample concentration is greater than four times the spike amount added.

Nitrogen, Nitrate

L1011964-17 and -19 were analyzed with the method required holding time exceeded due to instrument failure.

Solids, Total Suspended

L1011964-18 has an elevated detection limit due to the dilution required by the elevated concentration present in the sample.

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

Case Narrative (continued)

Dissolved Organic Carbon

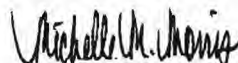
WG427571: A filter blank was not provided; therefore, a method blank is reported for the batch.

Sulfide

The WG426785-3 MS recovery (67%), performed on L1011964-19, is below the acceptance criteria. This has been attributed to matrix interference.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/30/10

METALS

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-01
 Client ID: GP-10-21-031-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 15:57
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	3.64		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 18:20	EPA 3005A	1,6020A	BM
Iron, Dissolved	1840		ug/l	250	42.0	5	08/08/10 10:15	08/12/10 18:20	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-02

Date Collected: 08/04/10 15:57

Client ID: GP-10-21-031-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.05		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 20:40	EPA 3005A	1,6020A	BM
Iron, Total	3100		ug/l	250	42.0	5	08/08/10 10:15	08/12/10 20:40	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-03

Date Collected: 08/04/10 16:35

Client ID: GP-10-21-041-F

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	349		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 18:26	EPA 3005A	1,6020A	BM
Iron, Dissolved	43700		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 18:26	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-04

Date Collected: 08/04/10 16:35

Client ID: GP-10-21-041-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	322		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 20:46	EPA 3005A	1,6020A	BM
Iron, Total	42500		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 20:46	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002**Lab Number:** L1011964**Project Number:** AC001**Report Date:** 08/30/10**SAMPLE RESULTS**

Lab ID: L1011964-05
Client ID: GP-10-21-051-F
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 17:30
Date Received: 08/05/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	12.3		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 18:32	EPA 3005A	1,6020A	BM
Iron, Dissolved	6320		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 18:32	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-06

Date Collected: 08/04/10 17:30

Client ID: GP-10-21-051-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	18.7		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 20:52	EPA 3005A	1,6020A	BM
Iron, Total	11900		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 20:52	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-07

Client ID: GP-10-21-060-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/04/10 18:26

Date Received: 08/05/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	146		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 18:38	EPA 3005A	1,6020A	BM
Iron, Dissolved	15300		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 18:38	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-08
 Client ID: GP-10-21-060-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/04/10 18:26
 Date Received: 08/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	145		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 20:58	EPA 3005A	1,6020A	BM
Iron, Total	21200		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 20:58	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-09
 Client ID: GP-10-23-017-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 10:28
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	6.6	J	ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.38	J	ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Calcium, Dissolved	9680		ug/l	100	12.6	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.2	J	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Iron, Dissolved	1040		ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Lead, Dissolved	0.06	J	ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1450		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Manganese, Dissolved	21.1		ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Nickel, Dissolved	1.83		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Potassium, Dissolved	2130		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM
Sodium, Dissolved	65000		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 18:45	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-10

Client ID: GP-10-23-017-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/05/10 10:28

Date Received: 08/05/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	59.8		ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Arsenic, Total	0.520		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Calcium, Total	9860		ug/l	100	12.6	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Chromium, Total	0.33	J	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Iron, Total	1110		ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Lead, Total	0.12	J	ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Magnesium, Total	1450		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Manganese, Total	23.0		ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Nickel, Total	1.94		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Potassium, Total	2260		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM
Sodium, Total	67100		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 21:04	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-11
 Client ID: GP-10-23-027-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 11:17
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	5.22	J	ug/l	20.0	3.82	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.6	J	ug/l	1.00	0.226	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Calcium, Dissolved	16300		ug/l	200	25.3	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Chromium, Dissolved	ND		ug/l	1.00	0.372	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Iron, Dissolved	701		ug/l	100	16.8	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	1.00	0.100	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1640		ug/l	200	8.20	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Manganese, Dissolved	172		ug/l	2.00	0.272	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Nickel, Dissolved	2.13		ug/l	1.00	0.360	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4640		ug/l	200	36.3	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM
Sodium, Dissolved	217000	J	ug/l	200	36.4	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-12

Date Collected: 08/05/10 11:17

Client ID: GP-10-23-027-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	735		ug/l	20.0	3.82	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Arsenic, Total	2.86		ug/l	1.00	0.226	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Calcium, Total	16200		ug/l	200	25.3	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Chromium, Total	5.24		ug/l	1.00	0.372	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Iron, Total	2170		ug/l	100	16.8	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Lead, Total	1.62		ug/l	1.00	0.100	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Magnesium, Total	1760		ug/l	200	8.20	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Manganese, Total	189		ug/l	2.00	0.272	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Nickel, Total	3.88		ug/l	1.00	0.360	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Potassium, Total	4670		ug/l	200	36.3	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM
Sodium, Total	218000		ug/l	200	36.4	2	08/08/10 10:15	08/12/10 21:17	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-13
 Client ID: GP-10-23-037-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 12:02
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.28	J	ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 19:33	EPA 3005A	1,6020A	BM
Iron, Dissolved	1890		ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 19:33	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-14

Date Collected: 08/05/10 12:02

Client ID: GP-10-23-037-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.38		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 21:53	EPA 3005A	1,6020A	BM
Iron, Total	5400		ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 21:53	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-15
 Client ID: GP-10-23-047-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 13:46
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	666		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 19:39	EPA 3005A	1,6020A	BM
Iron, Dissolved	78400		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 19:39	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-16

Date Collected: 08/05/10 13:46

Client ID: GP-10-23-047-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Westborough Lab

Arsenic, Total	610		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 22:00	EPA 3005A	1,6020A	BM
Iron, Total	78500		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 22:00	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-17
 Client ID: GP-10-12-044-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 12:00
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		ug/l	100	19.1	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Antimony, Dissolved	ND		ug/l	5.00	1.20	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	3880		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Barium, Dissolved	36.1		ug/l	5.00	0.950	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	5.00	0.590	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	5.00	0.590	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Calcium, Dissolved	24500		ug/l	1000	126.	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Chromium, Dissolved	ND		ug/l	5.00	1.86	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	10.9		ug/l	5.00	0.530	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Copper, Dissolved	ND		ug/l	5.00	1.18	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Iron, Dissolved	83700		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	5.00	0.500	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2080		ug/l	1000	41.0	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Manganese, Dissolved	5860		ug/l	10.0	1.36	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Mercury, Dissolved	0.02717	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 14:12	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	20.3		ug/l	5.00	1.80	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4670		ug/l	1000	182	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		ug/l	10.0	4.06	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	5.00	0.850	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Sodium, Dissolved	3650		ug/l	1000	182.	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		ug/l	5.00	0.310	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	5.00	0.770	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Zinc, Dissolved	44.4	J	ug/l	50.0	16.2	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-18
 Client ID: GP-10-12-044-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 12:00
 Date Received: 08/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	20200		ug/l	100	19.1	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Arsenic, Total	4320		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Calcium, Total	33600		ug/l	1000	126	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Chromium, Total	66.9		ug/l	5.00	1.86	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Iron, Total	122000		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Lead, Total	496		ug/l	5.00	0.500	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Magnesium, Total	5900		ug/l	1000	41.0	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Manganese, Total	7180		ug/l	10.0	1.36	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Nickel, Total	56.1		ug/l	5.00	1.80	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Potassium, Total	7630		ug/l	1000	182	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM
Sodium, Total	5160		ug/l	1000	182	10	08/08/10 10:15	08/12/10 22:06	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-19
 Client ID: GP-10-12-054-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 14:15
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		ug/l	100	19.1	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Antimony, Dissolved	ND		ug/l	5.00	1.20	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	2850		ug/l	5.00	1.13	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Barium, Dissolved	29.9		ug/l	5.00	0.950	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	5.00	0.590	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	5.00	0.590	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Calcium, Dissolved	39500		ug/l	1000	126	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Chromium, Dissolved	ND		ug/l	5.00	1.86	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	4.18	J	ug/l	5.00	0.530	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Copper, Dissolved	ND		ug/l	5.00	1.18	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Iron, Dissolved	74800		ug/l	500	84.1	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	5.00	0.500	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	2790		ug/l	1000	41.0	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Manganese, Dissolved	5200		ug/l	10.0	1.36	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Mercury, Dissolved	0.03853	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 14:14	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	10.6		ug/l	5.00	1.80	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Potassium, Dissolved	7340		ug/l	1000	182	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		ug/l	10.0	4.06	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	5.00	0.850	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Sodium, Dissolved	8450		ug/l	1000	182	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		ug/l	5.00	0.310	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	5.00	0.770	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM
Zinc, Dissolved	38.2	J	ug/l	50.0	16.2	10	08/08/10 10:15	08/12/10 19:52	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-20
 Client ID: DUP-080510-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 10:28
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	5.6	J	ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Antimony, Dissolved	0.15	J	ug/l	0.500	0.120	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	1.40		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Barium, Dissolved	13.5		ug/l	0.500	0.095	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Calcium, Dissolved	10300		ug/l	100	12.6	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.22	J	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	0.37	J	ug/l	0.500	0.053	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Copper, Dissolved	0.49	J	ug/l	0.500	0.118	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Iron, Dissolved	1070		ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	1530		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Manganese, Dissolved	21.8		ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Mercury, Dissolved	0.1147	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 14:20	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	1.87		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Potassium, Dissolved	2300		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Sodium, Dissolved	69100		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	0.12	J	ug/l	0.500	0.077	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM
Zinc, Dissolved	1.95	J	ug/l	5.00	1.62	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-21
 Client ID: DUP-080510-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 10:28
 Date Received: 08/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	49.2		ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Arsenic, Total	1.45		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Calcium, Total	10500		ug/l	100	12.6	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Chromium, Total	0.46	J	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Iron, Total	1180		ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Lead, Total	0.11	J	ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Magnesium, Total	1540		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Manganese, Total	23.9		ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Nickel, Total	2.04		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Potassium, Total	2330		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM
Sodium, Total	71000		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-22
 Client ID: DUP2-080510-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 14:36
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		ug/l	50.0	9.56	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Antimony, Dissolved	ND		ug/l	2.50	0.600	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	1100		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Barium, Dissolved	43.8		ug/l	2.50	0.475	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	2.50	0.295	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	2.50	0.295	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Calcium, Dissolved	86500		ug/l	500	63.3	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.95	J	ug/l	2.50	0.930	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	27.5		ug/l	2.50	0.265	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Copper, Dissolved	ND		ug/l	2.50	0.590	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Iron, Dissolved	70000		ug/l	250	42.0	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	2.50	0.250	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	15600		ug/l	500	20.5	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Manganese, Dissolved	3820		ug/l	5.00	0.680	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Mercury, Dissolved	0.07912	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 14:21	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	25.0		ug/l	2.50	0.900	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Potassium, Dissolved	11500		ug/l	500	90.8	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		ug/l	5.00	2.03	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/l	2.50	0.425	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Sodium, Dissolved	37200		ug/l	500	91.0	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		ug/l	2.50	0.155	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	2.50	0.385	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM
Zinc, Dissolved	32.6		ug/l	25.0	8.12	5	08/08/10 10:15	08/12/10 20:04	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-23
 Client ID: DUP2-080510-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 14:36
 Date Received: 08/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4180		ug/l	50.0	9.56	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Arsenic, Total	1160		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Calcium, Total	90800		ug/l	500	63.3	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Chromium, Total	45.0		ug/l	2.50	0.930	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Iron, Total	82000		ug/l	250	42.0	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Lead, Total	4.25		ug/l	2.50	0.250	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Magnesium, Total	17300		ug/l	500	20.5	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Manganese, Total	4050		ug/l	5.00	0.680	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Nickel, Total	39.9		ug/l	2.50	0.900	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Potassium, Total	13300		ug/l	500	90.8	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM
Sodium, Total	38000		ug/l	500	91.0	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-24

Date Collected: 08/05/10 12:15

Client ID: RB-080510-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Arsenic, Total	0.27	J	ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Calcium, Total	26.4	J	ug/l	100	12.6	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Chromium, Total	0.29	J	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Iron, Total	15.5	J	ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Manganese, Total	0.2	J	ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM
Sodium, Total	22.5	J	ug/l	100	18.2	1	08/08/10 10:15	08/12/10 22:24	EPA 3005A	1,6020A	BM



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-25
 Client ID: RB2-080510-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 15:20
 Date Received: 08/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.2	J	ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Arsenic, Total	0.13	J	ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Calcium, Total	40	J	ug/l	100	12.6	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Chromium, Total	0.39	J	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Iron, Total	19.3	J	ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Lead, Total	0.11	J	ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Manganese, Total	ND		ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM
Sodium, Total	30.1	J	ug/l	100	18.2	1	08/08/10 10:15	08/12/10 22:30	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-26
 Client ID: GP-10-23-057-F
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 14:36
 Date Received: 08/05/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		ug/l	50.0	9.56	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	1070		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Calcium, Dissolved	85000		ug/l	500	63.3	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Chromium, Dissolved	ND		ug/l	2.50	0.930	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Iron, Dissolved	68400		ug/l	250	42.0	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		ug/l	2.50	0.250	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	15400		ug/l	500	20.5	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Manganese, Dissolved	3730		ug/l	5.00	0.680	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Nickel, Dissolved	24.4		ug/l	2.50	0.900	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Potassium, Dissolved	11300		ug/l	500	90.8	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM
Sodium, Dissolved	36100		ug/l	500	91.0	5	08/08/10 10:15	08/12/10 20:22	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-27
 Client ID: GP-10-23-057-U
 Sample Location: DEVENS, MA
 Matrix: Water

Date Collected: 08/05/10 14:36
 Date Received: 08/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2900		ug/l	50.0	9.56	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Arsenic, Total	1060		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Calcium, Total	83200		ug/l	500	63.3	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Chromium, Total	32.4		ug/l	2.50	0.930	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Iron, Total	72200		ug/l	250	42.0	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Lead, Total	3.15		ug/l	2.50	0.250	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Magnesium, Total	15700		ug/l	500	20.5	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Manganese, Total	3660		ug/l	5.00	0.680	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Nickel, Total	34.6		ug/l	2.50	0.900	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Potassium, Total	12000		ug/l	500	90.8	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM
Sodium, Total	36600		ug/l	500	91.0	5	08/08/10 10:15	08/12/10 22:48	EPA 3005A	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,21,23-25,27 Batch: WG426597-1										
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Calcium, Total	12.7	J	ug/l	100	12.6	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Chromium, Total	ND		ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Iron, Total	16.8	J	ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Lead, Total	ND		ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Magnesium, Total	ND		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Manganese, Total	0.19	J	ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Nickel, Total	ND		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Potassium, Total	ND		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM
Sodium, Total	18.3	J	ug/l	100	18.2	1	08/08/10 10:15	08/12/10 20:28	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01,03,05,07,09,11,13,15,17,19-20,22,26 Batch: WG426598-1										
Aluminum, Dissolved	ND		ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Antimony, Dissolved	ND		ug/l	0.500	0.120	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Barium, Dissolved	ND		ug/l	0.500	0.095	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Calcium, Dissolved	ND		ug/l	100	12.6	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Chromium, Dissolved	ND		ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Cobalt, Dissolved	ND		ug/l	0.500	0.053	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Copper, Dissolved	ND		ug/l	0.500	0.118	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Iron, Dissolved	12	J	ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Magnesium, Dissolved	ND		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Nickel, Dissolved	ND		ug/l	0.500	0.180	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Method Blank Analysis Batch Quality Control

Potassium, Dissolved	ND		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Sodium, Dissolved	43.9	J	ug/l	100	18.2	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	0.500	0.077	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM
Zinc, Dissolved	ND		ug/l	5.00	1.62	1	08/08/10 10:15	08/12/10 18:08	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 17,19-20,22 Batch: WG428707-1										
Mercury, Dissolved	0.06857	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 14:05	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,21,23-25,27 Batch: WG426597-2								
Aluminum, Total	95				80-120	-		
Arsenic, Total	98				80-120	-		
Calcium, Total	99				80-120	-		
Chromium, Total	94				80-120	-		
Iron, Total	106				80-120	-		
Lead, Total	100				80-120	-		
Magnesium, Total	101				80-120	-		
Manganese, Total	100				80-120	-		
Nickel, Total	101				80-120	-		
Potassium, Total	101				80-120	-		
Sodium, Total	103				80-120	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19-20,22,26 Batch: WG426598-2					
Aluminum, Dissolved	92	-	80-120	-	
Antimony, Dissolved	92	-	80-120	-	
Arsenic, Dissolved	96	-	80-120	-	
Barium, Dissolved	93	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	105	-	80-120	-	
Calcium, Dissolved	95	-	80-120	-	
Chromium, Dissolved	92	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	98	-	80-120	-	
Iron, Dissolved	103	-	80-120	-	
Lead, Dissolved	97	-	80-120	-	
Magnesium, Dissolved	99	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	97	-	80-120	-	
Selenium, Dissolved	102	-	80-120	-	
Silver, Dissolved	92	-	80-120	-	
Sodium, Dissolved	103	-	80-120	-	
Thallium, Dissolved	90	-	80-120	-	
Vanadium, Dissolved	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19-20,22,26 Batch: WG426598-2					
Zinc, Dissolved	99	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 17,19-20,22 Batch: WG428707-2					
Mercury, Dissolved	109	-	80-120	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,21,23-25,27 QC Batch ID: WG426597-3 WG426597-4 QC Sample: L1011964-12 Client ID: GP-10-23-027-U												
Aluminum, Total	735	2000	2550	91		2650	96		80-120	4		20
Arsenic, Total	2.86	120	126	103		129	105		80-120	2		20
Calcium, Total	16200	10000	25700	95		26100	99		80-120	2		20
Chromium, Total	5.24	200	183	89		191	93		80-120	4		20
Iron, Total	2170	1000	3130	96		3240	107		80-120	3		20
Lead, Total	1.62	510	503	98		522	102		80-120	4		20
Magnesium, Total	1760	10000	11300	95		11700	99		80-120	3		20
Manganese, Total	189	500	659	94		688	100		80-120	4		20
Nickel, Total	3.88	500	482	96		498	99		80-120	3		20
Potassium, Total	4670	10000	14200	95		14800	101		80-120	4		20
Sodium, Total	218000	10000	218000	0		224000	60		80-120	3		20

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19-20,22,26 QC Batch ID: WG426598-3 WG426598-4 QC Sample: L1011964-11 Client ID: GP-10-23-027-F									
Aluminum, Dissolved	ND	2000	1850	92	1860	93	80-120	1	20
Antimony, Dissolved	ND	500	488	98	482	96	80-120	1	20
Arsenic, Dissolved	ND	120	127	106	127	106	80-120	0	20
Barium, Dissolved	39.7	2000	1980	97	1950	96	80-120	2	20
Beryllium, Dissolved	ND	50	51.7	103	51.0	102	80-120	1	20
Cadmium, Dissolved	ND	51	54.3	106	53.6	105	80-120	1	20
Calcium, Dissolved	16300	10000	26300	100	26300	100	80-120	0	20
Chromium, Dissolved	ND	200	185	92	186	93	80-120	1	20
Cobalt, Dissolved	ND	500	506	101	502	100	80-120	1	20
Copper, Dissolved	ND	250	250	100	249	100	80-120	0	20
Iron, Dissolved	701	1000	1720	102	1710	101	80-120	1	20
Lead, Dissolved	ND	510	512	100	510	100	80-120	0	20
Magnesium, Dissolved	1640	10000	11400	98	11600	100	80-120	2	20
Manganese, Dissolved	172	500	658	97	666	99	80-120	1	20
Nickel, Dissolved	2.13	500	496	99	496	99	80-120	0	20
Potassium, Dissolved	4640	10000	14400	98	14500	99	80-120	1	20
Selenium, Dissolved	ND	120	123	102	120	100	80-120	2	20
Silver, Dissolved	ND	50	46.1	92	45.8	92	80-120	1	20
Sodium, Dissolved	217000	10000	221000	40	222000	50	80-120	0	20
Thallium, Dissolved	ND	120	113	94	112	93	80-120	1	20
Vanadium, Dissolved	ND	500	488	98	487	97	80-120	0	20

Matrix Spike Analysis

Batch Quality Control

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19-20,22,26 QC Batch ID: WG426598-3 WG426598-4 QC Sample: L1011964-11 Client ID: GP-10-23-027-F									
Zinc, Dissolved	ND	500	504	101	498	100	80-120	1	20
Dissolved Metals - Westborough Lab Associated sample(s): 17,19-20,22 QC Batch ID: WG428707-4 QC Sample: L1011964-19 Client ID: GP-10-12-054-F									
Mercury, Dissolved	ND	1	1.317	132	Q	-	80-120	-	20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1011964

Report Date: 08/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 17,19-20,22 QC Batch ID: WG428707-3 QC Sample: L1011964-19 Client ID: GP-10-12-054-F						
Mercury, Dissolved	0.03853J	0.09225J	ug/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-02

Client ID: GP-10-21-031-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/04/10 15:57

Date Received: 08/05/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	50		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	3.9		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-04

Client ID: GP-10-21-041-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/04/10 16:35

Date Received: 08/05/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	130		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	5.2		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-06

Date Collected: 08/04/10 17:30

Client ID: GP-10-21-051-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	240		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	4.7		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-08
Client ID: GP-10-21-060-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 18:26
Date Received: 08/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	240		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	4.4		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-10

Date Collected: 08/05/10 10:28

Client ID: GP-10-23-017-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	1.9		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-12

Date Collected: 08/05/10 11:17

Client ID: GP-10-23-027-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	24		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	2.1		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-14

Date Collected: 08/05/10 12:02

Client ID: GP-10-23-037-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	95		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	1.1		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011964**Report Date:** 08/30/10**SAMPLE RESULTS****Lab ID:** L1011964-16**Client ID:** GP-10-23-047-U**Sample Location:** DEVENS, MA**Matrix:** Water**Date Collected:** 08/05/10 13:46**Date Received:** 08/05/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	200		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	4.4		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-17

Date Collected: 08/05/10 12:00

Client ID: GP-10-12-044-F

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	230		mg CaCO3/L	2.0	NA	1	-	08/09/10 14:26	30,2320B	JO
Nitrogen, Ammonia	3.60		mg/l	0.075	0.017	1	08/09/10 16:20	08/10/10 02:05	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/05/10 23:52	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	13	J	mg/l	20	7.0	1	-	08/06/10 15:25	44,410.4	DW
Dissolved Organic Carbon	4.1		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	3.3		mg/l	0.50	0.07	1	-	08/14/10 00:10	44,300.0	AU
Nitrogen, Nitrate	0.028	J	mg/l	0.05	0.01	1	-	08/11/10 22:28	44,300.0	AU
Sulfate	1.6		mg/l	1.0	0.12	1	-	08/14/10 00:10	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-18

Date Collected: 08/05/10 12:00

Client ID: GP-10-12-044-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	1300		mg/l	50	NA	10	-	08/11/10 12:30	30,2540D	DW

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-19

Date Collected: 08/05/10 14:15

Client ID: GP-10-12-054-F

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	220		mg CaCO ₃ /L	2.0	NA	1	-	08/09/10 14:26	30,2320B	JO
Nitrogen, Ammonia	3.14		mg/l	0.075	0.017	1	08/09/10 16:20	08/10/10 02:07	30,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/05/10 23:52	30,4500NO ₂ -B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S ₂ -AD	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	08/06/10 15:25	44,410.4	DW
Dissolved Organic Carbon	4.7		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Chloride	7.6		mg/l	0.50	0.07	1	-	08/13/10 22:58	44,300.0	AU
Nitrogen, Nitrate	0.05		mg/l	0.05	0.01	1	-	08/11/10 23:16	44,300.0	AU
Sulfate	3.1		mg/l	1.0	0.12	1	-	08/13/10 22:58	44,300.0	AU



Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

SAMPLE RESULTS

Lab ID: L1011964-27

Date Collected: 08/05/10 14:36

Client ID: GP-10-23-057-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	300		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	6.0		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 17,19 Batch: WG426326-2									
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	-	08/05/10 23:50	30,4500NO2-B	DD
General Chemistry - Westborough Lab for sample(s): 17,19 Batch: WG426358-1									
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	-	08/06/10 15:21	44,410.4	DW
General Chemistry - Westborough Lab for sample(s): 17,19 Batch: WG426677-1									
Alkalinity, Total	ND	mg CaCO3/L	2.0	NA	1	-	08/09/10 14:26	30,2320B	JO
General Chemistry - Westborough Lab for sample(s): 17,19 Batch: WG426753-1									
Nitrogen, Ammonia	ND	mg/l	0.075	0.017	1	08/09/10 16:20	08/10/10 01:53	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 17,19 Batch: WG426785-1									
Sulfide	ND	mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
General Chemistry - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16,18,27 Batch: WG427050-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 02,04,06,08,10,12,14,16-17,19,27 Batch: WG427571-1									
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 17,19 Batch: WG427645-1									
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	-	08/11/10 18:51	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 17,19 Batch: WG427658-1									
Chloride	ND	mg/l	0.50	0.07	1	-	08/13/10 17:22	44,300.0	AU
Sulfate	ND	mg/l	1.0	0.12	1	-	08/13/10 17:22	44,300.0	AU

Lab Control Sample Analysis**Batch Quality Control****Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011964**Report Date:** 08/30/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17,19 Batch: WG426326-1								
Nitrogen, Nitrite	95		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 17,19 Batch: WG426358-2								
Chemical Oxygen Demand	95		-		95-105	-		
General Chemistry - Westborough Lab Associated sample(s): 17,19 Batch: WG426677-2								
Alkalinity, Total	108		-		80-115	-		4
General Chemistry - Westborough Lab Associated sample(s): 17,19 Batch: WG426753-2								
Nitrogen, Ammonia	98		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 17,19 Batch: WG426785-2								
Sulfide	87		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16-17,19,27 Batch: WG427571-2								
Dissolved Organic Carbon	90		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 17,19 Batch: WG427645-2								
Nitrogen, Nitrate	92		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 17,19 Batch: WG427658-2					
Chloride	95	-	90-110	-	
Sulfate	100	-	90-110	-	

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG426326-3 QC Sample: L1011964-17 Client ID: GP-10-12-044-F												
Nitrogen, Nitrite	ND	0.1	0.10	100	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG426358-3 QC Sample: L1011792-02 Client ID: MS Sample												
Chemical Oxygen Demand	ND	238	240	102	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG426677-4 QC Sample: L1011910-01 Client ID: MS Sample												
Alkalinity, Total	26	100	130	106	-	-	-	-	86-116	-	-	4
General Chemistry - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG426753-3 QC Sample: L1011964-17 Client ID: GP-10-12-044-F												
Nitrogen, Ammonia	3.60	4	7.62	100	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG426785-3 QC Sample: L1011964-19 Client ID: GP-10-12-054-F												
Sulfide	ND	0.24	0.16	67	Q	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16-17,19,27 QC Batch ID: WG427571-3 QC Sample: L1011964-10 Client ID: GP-10-23-017-U												
Dissolved Organic Carbon	1.9	4	6.0	104	-	-	-	-	79-120	-	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG427645-3 WG427645-4 QC Sample: L1011964-17 Client ID: GP-10-12-044-F												
Nitrogen, Nitrate	ND	0.4	0.40	100	-	0.41	102	-	80-122	2	-	15
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG427658-3 WG427658-4 QC Sample: L1011964-17 Client ID: GP-10-12-044-F												
Chloride	3.3	4	7.8	112	-	6.9	90	-	40-151	12	-	18
Sulfate	1.6	8	10	105	-	9.5	99	-	60-140	5	-	20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1011964

Report Date: 08/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17,19	QC Batch ID: WG426326-4	QC Sample: L1011964-19	Client ID: GP-10-12-054-F			
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 17,19	QC Batch ID: WG426358-4	QC Sample: L1011792-02	Client ID: DUP Sample			
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 17,19	QC Batch ID: WG426677-3	QC Sample: L1011910-04	Client ID: DUP Sample			
Alkalinity, Total	33	31	mg CaCO3/L	6	Q	4
General Chemistry - Westborough Lab Associated sample(s): 17,19	QC Batch ID: WG426753-4	QC Sample: L1011964-17	Client ID: GP-10-12-044-F			
Nitrogen, Ammonia	3.60	3.76	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 17,19	QC Batch ID: WG426785-4	QC Sample: L1011964-19	Client ID: GP-10-12-054-F			
Sulfide	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,27	QC Batch ID: WG427050-2	QC Sample: L1011964-18	Client ID: GP-10-12-044-U			
Solids, Total Suspended	1300	1400	mg/l	7		32
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16-17,19,27	QC Batch ID: WG427571-4	QC Sample: L1011964-12	Client ID: GP-10-23-027-U			
Dissolved Organic Carbon	2.1	2.1	mg/l	0		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 17,19	QC Batch ID: WG427645-5	QC Sample: L1011964-17	Client ID: GP-10-12-044-F			
Nitrogen, Nitrate	0.028J	0.029J	mg/l	NC		15

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1011964

Report Date: 08/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 17,19 QC Batch ID: WG427658-5 QC Sample: L1011964-17 Client ID: GP-10-12-044-F					
Chloride	3.3	3.2	mg/l	3	18
Sulfate	1.6	1.7	mg/l	6	20

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B	Present/Intact
C	Present/Intact
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-01A	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-02A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-02B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-02C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-02D	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011964-02X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-03A	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-04A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-04B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-04C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-04D	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011964-04X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-05A	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-06A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-06B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-06C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-06D	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011964-06X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-07A	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-08A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-08B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-08C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-08D	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011964-08X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-09A	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011964-10A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-10B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-10C	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-10D	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-10X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-11A	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011964-11B	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011964-12A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-12B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-12C	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-12D	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-12E	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-12X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-13A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-14A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-14B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-14C	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-14D	Plastic 250ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011964-14X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-15A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-16A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-16B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-16C	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-16D	Plastic 250ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011964-16X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-17A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011964-17B	Plastic 250ml unpreserved	B	6	3.9	Y	Present/Intact	NO2-4500NO2(2)
L1011964-17C	Plastic 250ml unpreserved	B	N/A	3.9	Y	Present/Intact	ALK-T-2320(14)
L1011964-17D	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011964-17E	Plastic 250ml Zn Acetate/NaOH pr	B	>12	3.9	Y	Present/Intact	SULFIDE-4500(7)
L1011964-17F	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-17G	Plastic 250ml Zn Acetate/NaOH pr	B	>12	3.9	Y	Present/Intact	SULFIDE-4500(7)
L1011964-17J	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011964

Report Date: 08/30/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-17K	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-17M	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011964-17X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-18A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-18B	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-19A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011964-19B	Plastic 250ml unpreserved	A	6	3	Y	Present/Intact	NO2-4500NO2(2)
L1011964-19C	Plastic 250ml unpreserved	B	N/A	3.9	Y	Present/Intact	ALK-T-2320(14)
L1011964-19D	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011964-19E	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-19F	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-19G	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-19J	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-19K	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-19M	Plastic 500ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011964-19X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-20A	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011964-21A	Plastic 500ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-22A	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-V-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-ZN-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011964-23A	Plastic 500ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-24A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-25A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011964-26A	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011964-27A	Plastic 1000ml unpreserved	B	6	3.9	Y	Present/Intact	TSS-2540(7)
L1011964-27B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-27C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-27D	Plastic 250ml HNO3 preserved	B	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1011964-27X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCS D - Laboratory Control Sample Duplicate; Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MS D - Matrix Spike Sample Duplicate; Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers

Project Name: SHL TASK 0002

Lab Number: L1011964

Project Number: AC001

Report Date: 08/30/10

Data Qualifiers

- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011964
Report Date: 08/30/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. **Organic Parameters:** 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. **Organic Parameters:** SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. **Organic Parameters:** SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. **Organic Parameters:** 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. **Organic Parameters:** SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. **Organic Parameters:** SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. **Organic Parameters:** EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. **Organic Parameters:** EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. **Organic Parameters:** EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. **Organic Parameters:** 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

WESTBORD, MA
TEL: 508-896-9220
FAX: 508-898-9193

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 8/5/10

ALPHA Job #: 45011965

3 Coolers

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: priyabain@source.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: SHZ

Project Location: Ayer MA

Project #: AC001

Project Manager: *Phil McBain*

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 124 = closed

*Dues as noted F = Field Filtered

Metals #1 = As, Fe Metals #2 = As, Fe, Mn, Al, Cr, Pb, Ni, Na, Ca, K, Mg

ALPHA/Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Cl	Sg	Mn	Alk	Mg	Si	TSS	DOL	Tot W	D ₃₅	Tot M	D ₇₅	(Please specify below)	T m
		Date	Time															Sample Specific Comments	
1964-01	GP-10-21-031-F	8/4/10	1557	GW	JAR										✓				1
-02	GP-10-21-031-U	8/4/10	1557	GW	JAR							✓	✓	✓					3
-03	GP-10-21-041-F	8/4/10	1635	GW	JAR										✓				1
-04	GP-10-21-041-U	8/4/10	1635	GW	JAR							✓	✓	✓					3
-05	GP-10-21-051-F	8/4/10	1730	GW	JAR										✓				1
-06	GP-10-21-051-U	8/4/10	1730	GW	JAR							✓	✓	✓					3
-07	GP-10-21-060-F	8/4/10	1826	GW	JAR										✓				1
-08	GP-10-21-060-U	8/4/10	1826	GW	JAR							✓	✓	✓					3
-09	GP-10-23-017-F	8/5/10	1028	GW	JAR												✓		1
-10	GP-10-23-017-U	8/5/10	1028	GW	JAR							✓	✓			✓			3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Container Type

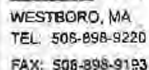
Preservative

Date/Time

Received By

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

PAGE 2 OF 3

3 Coolers

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: SHL

Project Location: Ayer, MA

Project #: AC 001

Project Manager: *Phil McBain*

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

$SDG \# = \text{closed}$

* Done as noted $F = F_{\text{filtered}}$

Metals #1 = A, Fe Metals #2 = A, Fe, Mn, Al, Cr, Pb, Ni, Na, Cu, K, Mg

[illegible]

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type

Preservative

Date/Time

8/5/10/600
8/3/6 17

Relinquished By:

Relinquished By: [Signature]

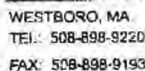
Reviewed by

Received 3/11/2011

Date/Time: _____

Date/Time
8/5/10 6:10
315 110 1750

Please print clearly, legibly, and completely. Samples can not be legged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



PAGE 3 OF 3

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Name: SHL

Project Location: Ayer, MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Client Information

Client: Sovereign Consulting Inc.

Address: 905 B S. Main St

Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: p.mchalein@swtcm.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All **CAM** methods for inorganic analyses require MS every 20 soil samples)

SPG# = closed

* Done as noted F = Field Filtered

Metals #1 = Ag, Fe Metals #2 = As, Fe, Mn, Al, Cr, Pb, Ni, Mg, Cu, K, Mo

[illegible]

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	P	P	P	P	P	P	A	P	P	P	A
----------------	---	---	---	---	---	---	---	---	---	---	---

Preservative	A	A	A	D	E/F	A	A	C	C	C	C
--------------	---	---	---	---	-----	---	---	---	---	---	---

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By _____

Date/Time: _____

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

3 Coders

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 3

Client Information

Client: Sovereign Consulting Inc

Address: 905 B S. Main St

Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: pmcubin@sovcan.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# 04 = Closed

Metals #1 = As, Fe

Metals #2 = As, Fe, Mn, Al, Co, Pb, Ni, Na, Cr, K, Mg

Project Information

Project Name: SHL

Project Location: Ayer, MA

Project #: AC001

Project Manager: Phil McBain

ALPHA Quote #

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-authorized)

Date Due:

Time:

Date Rec'd in Lab: 8/5/10

ALPHA Job #: L010164

Report Information - Data Deliverables

☐ FAX☒ EMAIL EDR☐ ADEX☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☐ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS											TOTAL = BOTTLES
	Cl, Sulf, Pb	Ni	Al	NH ₄ , CO ₂	S/Pb	TSS	DOL + DIC	Tot Metals #1	Diss Metals #1	Diss Metals #2	
01											1
02											3
03											1
04											3
05											1
06											3
07											1
08											3
09											1
10											3

SAMPLE HANDLING

Filtration

☒ Done *☐ Not needed☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

ALPHA LAB ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time			Cl, Sulf, Pb	Ni	Al	NH ₄ , CO ₂	S/Pb	TSS	DOL + DIC	Tot Metals #1	Diss Metals #1	Diss Metals #2
1964-01	GP-10-21-031-F	8/4/10	1557	GW	JAR										
02	GP-10-21-031-U	8/4/10	1557	GW	JAR										
03	GP-10-21-041-F	8/4/10	1635	GW	JAR										
04	GP-10-21-041-U	8/4/10	1635	GW	JAR										
05	GP-10-21-051-F	8/4/10	1730	GW	JAR										
06	GP-10-21-051-U	8/4/10	1730	GW	JAR										
07	GP-10-21-060-F	8/4/10	1826	GW	JAR										
08	GP-10-21-060-U	8/4/10	1826	GW	JAR										
09	GP-10-23-017-F	8/5/10	1028	GW	JAR										
10	GP-10-23-017-U	8/5/10	1028	GW	JAR										

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 81-01 (rev. 18-Jan-2010)

Container Type

Preservative

Date/Time

Received By

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



3 Cores

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Project Information

Project Name: SHLProject Location: Ayer, MAProject #: AC001Project Manager: Phil McBain

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Client Information

Client: Sovereign Consulting IncAddress: 905 B S Main St
Mansfield, MA 02048Phone: 508-339-3200Fax: 508-339-3248Email: pmc@sovereign.com
☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# = Closed

* Done as noted P = Filtered

Metals #1 = As, FeMetals #2 = As, Fe, Mn, Al, Cr, Pb, Ni, Na, Cu, K, Mg

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EPR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info ☐ PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS											SAMPLE HANDLING	TOTAL # BOTTLES
	Cl, SO ₄ , NO ₃	NO ₂	Alk	Mn, CO ₂	SO ₄	TSS	DUL-DIC	Tot Metals #1	DSS Metals #1	Tot Metals #2	DSS Metals #2	
											Filtration _____ <input checked="" type="checkbox"/> Done # <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please specify below)	
											MS/MSD metals only	2
											MS/MSD Metals only	4
												1
												3
												1
												3
												9
												2
												9

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Container Type


Preservative

Date/Time

Received By:

Date/Time

Please print clearly, legibly, and completely. Samples can not be changed in and turn-around time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's terms and conditions. See reverse side.

CHAIN OF CUSTODY				PAGE 3 OF 3		Date Rec'd in Lab: 8/10/10		ALPHA Job #: 160164																																																																																																																																
 3 Coolers WESTBORO, MA TEL: 508-698-9220 FAX: 508-698-9193		MANFIELD, MA TEL: 508-622-9300 FAX: 508-622-9280		Project Information Project Name: <u>SHL</u> Project Location: <u>Ayer, MA</u> Project #: <u>AC001</u> Project Manager: <u>Phil McBain</u> ALPHA Quote #: Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-arranged) Date Due: _____ Time: _____		Report Information - Data Deliverables <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <u>EDR</u> <input type="checkbox"/> ADEX <input type="checkbox"/> Add'l Deliverables		Billing Information <input type="checkbox"/> Same as Client info <input type="checkbox"/> PO #:																																																																																																																																
Client Information Client: <u>Sovereign Consulting Inc</u> Address: <u>905 B S. Main St</u> <u>Manfield MA 02048</u> Phone: <u>508-339-3200</u> Fax: <u>508-339-3248</u> Email: <u>pmc@sovereign.com</u>				Regulatory Requirements/Report Limits State/Fed Program: _____ Criteria: <u>SEE QAPP</u> MA MCP PRESUMPTIVE CERTAINTY — CT REASONABLE CONFIDENCE PROTO <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Matrix Spikes (MS) Required on this SDG? (If yes see note in Comments) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required?																																																																																																																																				
<input type="checkbox"/> These samples have been previously analyzed by Alpha Other Project Specific Requirements/Comments/Detection Limits: If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed. (Note: All CAM methods for inorganic analyses require MS every 20 soil samples) <u>SDG# = closed</u> * Done as noted F = Field Filtered <u>Metals #1 = As, Fe</u> <u>Metals #2 = As, Fe, Mn, Al, Cr, Pb, Ni, Hg, Cu, K, Mg</u>				<table border="1"> <thead> <tr> <th rowspan="2">ANALYSIS</th> <th colspan="10">SAMPLE HANDLING</th> <th rowspan="2">TOTAL # BOTTLES</th> </tr> <tr> <th>Cl, Sg, NO₃</th> <th>NO₂</th> <th>Alk</th> <th>Mn, Cd</th> <th>Si, Mn</th> <th>TSS</th> <th>DOC + DIC</th> <th>Tot Metals #1</th> <th>Diss Metals #1</th> <th>Tot Metals #2</th> <th>Diss Metals #2</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> </tbody> </table>						ANALYSIS	SAMPLE HANDLING										TOTAL # BOTTLES	Cl, Sg, NO ₃	NO ₂	Alk	Mn, Cd	Si, Mn	TSS	DOC + DIC	Tot Metals #1	Diss Metals #1	Tot Metals #2	Diss Metals #2													1													1													1													1													1													1													1													3
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1964-20 DUP-080510-F 8/5/10 1628 GW JAR 21 DUP-080510-LI 8/5/10 1028 GW JAR 22 DUP2-080510-F 8/5/10 1436 GW JAR 23 DUP2-080510-LI 8/5/10 1436 GW JAR 24 RB-080510-LI 8/5/10 1215 GW CMH 25 RB2-080510-LI 8/5/10 1520 GW JSL 26 GP-10-23-057-F 8/5/10 1436 GW JAR 27 GP-10-23-057-LI 8/5/10 1436 GW JAR				TAL Metals TAL Metals TAL Metals TAL Metals TAL Metals TAL Metals TAL Metals TAL Metals																																																																																																																																				
PLEASE ANSWER QUESTIONS ABOVE! IS YOUR PROJECT MA MCP or CT RCP?				Container Type P P P P P P P P P P P P P P Preservative A A A A D F E A A C C C C C Relinquished By: <u>[Signature]</u> Date/Time: <u>8/5/10 1600</u> Received By: <u>[Signature]</u> Date/Time: <u>8/5/10 1750</u>																																																																																																																																				
FORM NO: 01-01 (rev. 18-Jan-2010)				Please print clearly legible and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.																																																																																																																																				



ANALYTICAL REPORT

Lab Number: L1011970

Client: Sovereign Consulting
905B South Main Street
Mansfield, MA 02048

ATTN: Phil McBain

Phone: (508) 339-3200

Project Name: SHL TASK 0002

Project Number: AC001

Report Date: 08/12/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011970
Report Date: 08/12/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011970-01	GP-10-21-031-U	DEVENS, MA	08/04/10 15:57
L1011970-02	GP-10-21-041-U	DEVENS, MA	08/04/10 16:35
L1011970-03	GP-10-21-051-U	DEVENS, MA	08/04/10 17:30
L1011970-04	GP-10-21-060-U	DEVENS, MA	08/04/10 18:26
L1011970-05	GP-10-23-017-U	DEVENS, MA	08/05/10 10:28
L1011970-06	GP-10-23-027-U	DEVENS, MA	08/05/10 11:17
L1011970-07	GP-10-23-037-U	DEVENS, MA	08/05/10 12:02
L1011970-08	GP-10-23-047-U	DEVENS, MA	08/05/10 13:46
L1011970-09	GP-10-12-044-F	DEVENS, MA	08/05/10 12:00
L1011970-10	GP-10-12-054-F	DEVENS, MA	08/05/10 14:15
L1011970-11	GP-10-23-057-U	DEVENS, MA	08/05/10 14:36

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011970
Report Date: 08/12/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the Dissolved Inorganic Carbon results only. The results of all other requested analyses will be issued under separate cover.

Sample Receipt

The samples were received at the laboratory requiring filtration for Dissolved Inorganic Carbon; however, "GP-10-21-031-U", "GP-10-21-041-U", "GP-10-21-051-U" and "GP-01-21-060-U" were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

Dissolved Inorganic Carbon

L1011970-01 through -11 have elevated detection limits due to the dilutions required by the elevated

Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011970
Report Date: 08/12/10

Case Narrative (continued)

concentrations present in the samples.

WG426975: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD.

The Filter Blank result is reported from an analysis where the CCB before the sequence failed high, but re-analysis could not be performed due to limited sample volume.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Elizabeth Simmons

Title: Technical Director/Representative

Date: 08/12/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-01

Date Collected: 08/04/10 15:57

Client ID: GP-10-21-031-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	65		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-02

Date Collected: 08/04/10 16:35

Client ID: GP-10-21-041-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	79		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW



Serial_No:08121016:38

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-03

Date Collected: 08/04/10 17:30

Client ID: GP-10-21-051-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	100		mg/l	20	--	20	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW



Project Name: SHL TASK 0002
Project Number: AC001

Lab Number: L1011970
Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-04
Client ID: GP-10-21-060-U
Sample Location: DEVENS, MA
Matrix: Water

Date Collected: 08/04/10 18:26
Date Received: 08/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	84		mg/l	20	--	20	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-05

Date Collected: 08/05/10 10:28

Client ID: GP-10-23-017-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	22		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-06

Date Collected: 08/05/10 11:17

Client ID: GP-10-23-027-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	20		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-07

Date Collected: 08/05/10 12:02

Client ID: GP-10-23-037-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	26		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-08

Date Collected: 08/05/10 13:46

Client ID: GP-10-23-047-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	52		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30.5310C(M)	DW



Project Name: SHL TASK 0002**Lab Number:** L1011970**Project Number:** AC001**Report Date:** 08/12/10**SAMPLE RESULTS****Lab ID:** L1011970-09**Date Collected:** 08/05/10 12:00**Client ID:** GP-10-12-044-F**Date Received:** 08/05/10**Sample Location:** DEVENS, MA**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	72		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-10

Date Collected: 08/05/10 14:15

Client ID: GP-10-12-054-F

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	66		mg/l	8.0	--	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW



Serial_No:08121016:38

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-11

Date Collected: 08/05/10 14:36

Client ID: GP-10-23-057-U

Date Received: 08/05/10

Sample Location: DEVENS, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	87		mg/l	20	--	20	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW



Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-11 Batch: WG426975-1										
Dissolved Inorganic Carbon	ND		mg/l	1.0	--	1	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW



Lab Control Sample Analysis
Batch Quality Control**Project Name:** SHL TASK 0002**Project Number:** AC001**Lab Number:** L1011970**Report Date:** 08/12/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Associated sample(s): 01-11 Batch: WG426975-2

Dissolved Inorganic Carbon

99

Project Name: SHL TASK 0002

Project Number: AC001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1011970

Report Date: 08/12/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-11 QC Batch ID: WG426975-3 QC Sample: L1011970-06 Client ID: GP-10-23-027-U						
Dissolved Inorganic Carbon	20	15	mg/l	29		

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

B	Present/Intact
C	Present/Intact
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011970-01A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-01B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-01X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-02A	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-02B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-02X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	SPECWC()
L1011970-03A	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-03B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-03X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	SPECWC()
L1011970-04A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-04B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-04X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-05A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-05B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-05X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-06A	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-06B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-06X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	SPECWC()
L1011970-07A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-07B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-07X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-08A	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-08B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-08X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	SPECWC()

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1011970-09A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-09B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-09X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-10A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-10B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-10X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-11A	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-11B	Vial H2SO4 preserved split	B	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-11X	Amber 250ml unpreserved	B	6	3.9	Y	Present/Intact	SPECWC()

*Values in parentheses indicate holding time in days

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MS D	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: SHL TASK 0002

Lab Number: L1011970

Project Number: AC001

Report Date: 08/12/10

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 – Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270), **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease, **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (EPH), MA-EPH, MA-VPH, **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (EPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0, **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1, **Organic Parameters:** 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.**Drinking Water**

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ti)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-

BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N,

SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CL-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

3 Coulers

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3268

Client Information

Client: Sovereign Consulting Inc

Address 905 B S. Main St

Mansfield MA 02048

Phone: 508-339-3200

Fax: 508-339-3248

Email: princebain@50vccn.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG # 14 = closed

* Done as noted F = Field Filtered

Metals #1 = As, Fe Metals #2 = As, Fe, Mn, Al, Cr, Pb, Ni, Na, Ca, K, Mg

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
	GP-10-21-031-F	8/4/10	1557	GW	JAR
11970	GP-10-21-031-U	8/4/10	1557	GW	JAR
	GP-10-21-041-F	8/4/10	1635	GW	JAR
	GP-10-21-041-U	8/4/10	1635	GW	JAR
	GP-10-21-051-F	8/4/10	1730	GW	JAR
	GP-10-21-051-U	8/4/10	1730	GW	JAR
	GP-10-21-060-F	8/4/10	1826	GW	JAR
	GP-10-21-060-U	8/4/10	1826	GW	JAR
	GP-10-23-017-F	8/5/10	1028	GW	JAR
	GP-10-23-017-U	8/5/10	1028	GW	JAR

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 1B-Jan-2010)

Project Information

Project Name: 57L

Project Location: Ayer, MA

Project #: AC001

Project Manager: *Phil McBain*

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/12/50 Time:

Report Information - Data Deliverables

☐ FAX☐ ADEX

EMAIL EDR

☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO#:

Regulatory Requirements/Report Limits

State / Fed Program

Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No Are CT ROP (Reasonable Confidence Protocols) Required?

ANALYSIS											SAMPLE HANDLING	
Cl, Sg, Ng	NO ₃	ALK	NH ₄ COD	SJFde	TSS	DOL + DIC	Tot Metals #1	Diss Metals #1	Tot Metals #2	Diss Metals #2	Filtration	Preservation
											<input checked="" type="checkbox"/> Done *	<input type="checkbox"/> Not needed
											<input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab to do
											(Please specify date)	
Sample Specific Comments												
					✓	✓	✓	✓				
				✓		✓	✓	✓				
								✓				
				✓		✓	✓	✓				
								✓				
				✓		✓	✓	✓				
								✓				
				✓		✓	✓					
									✓			
				✓		✓						

Please print name, facility and company. Samples are to be analyzed in accordance with methods that do not vary in time. Facilities are to resolve. All samples submitted are subject to follow-up tests and reanalysis.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

3 Coolers

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Project Information

Project Name: SHL
Project Location: Ayer, MA
Project #: AC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 8/12/10 Time:

Client Information

Client: Sovereign Consulting Inc
Address: 905 B S Main St
Mansfield, MA 02048
Phone: 508-339-3200
Fax: 508-339-3248

Email: pmcain@sovercon.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# = Closed * Done as noted F = Filtered

Metals #1 = Ag, Fe Metals #2 = Ag, Fe, Mn, Al, Co, Pb, Ni, Na, Cu, K, Mg

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	CL ₅	NO ₂	ALK	NH ₄	SIO ₂	TSS	DOL	TOT	DSS	TOT	DSS	(Please specify below)	LES
		Date	Time														Sample Specific Comments	
	GP-10-23-027-F	8/5/10	1117	GW	JAR												MS/MSD metals only	2
119-10	GP-10-23-027-U	8/5/10	1117	GW	JAR						✓	✓			✓		MS/MSD Metals only	4
	GP-10-23-037-F	8/5/10	1202	GW	JAR										✓			1
67	GP-10-23-037-U	8/5/10	1202	GW	JAR						✓	✓	✓					3
	GP-10-23-047-F	8/5/10	1346	GW	JAR										✓			1
08	GP-10-23-047-U	8/5/10	1346	GW	JAR						✓	✓	✓					3
09	GP-10-12-044-F	8/5/10	1200	GW	JJC	✓	✓	✓	✓	✓		✓				✓		9
	GP-10-12-044-U	8/5/10	1200	GW	JJC						✓				✓			2
10	GP-10-12-054-F	8/5/10	1415	GW	JJC	✓	✓	✓	✓	✓		✓				✓		9
	GP-10-12-054-U (PSV)																	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type

Preservative

P P P P P P A P P P P

A A A D F E A A C C C F

Relinquished By:

Date/Time

Received By:

Date/Time

8/5/10/1600

8/5/10/1750

8/5/10/1750

8/5/10/1750



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

3 Coolers
MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 8/5/10

ALPHA Job #

Client Information

Client: Sovereign Consulting, Inc.
Address: 905B S. Main St
Mansfield MA 02048
Phone: 508-339-3200
Fax: 508-339-3248
Email: pmc@sovereign.com

Project Information

Project Name: SHL
Project Location: Ayer, MA
Project #: ACC001
Project Manager: Phil McBain
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/12/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL EDR
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria SEE QAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

SDG# = closed * Done as noted E = Field Filtered

Metals #1 = As, Fe Metals #2 = As, Fe, Mn, Al, Cr, Pb, Ni, Mg, Cu, K, Mg

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Cl ₂ S	NO ₂	Alk	NH ₄	S/Pide	TSS	DOC	Total	Diss	Tot	Diss	(Please specify below)		LES
		Date	Time														Sample Specific Comments		
	DUP-080510-F	8/5/10	1028	GW	JAR											✓			1
	DUP-080510-U	8/5/10	1028	GW	JAR										✓				1
	DUP2-080510-F	8/5/10	1436	GW	JAR												✓		11
	DUP2-080510-U	8/5/10	1436	GW	JAR										✓				1
	RB-080510-U	8/5/10	1215	GW	CMH										✓				1
	RB2-080510-U	8/5/10	1520	GW	JJL										✓				1
	GP-10-23-057-F	8/5/10	1436	GW	JAR												✓		1
11970-U	GP-10-23-057-U	8/5/10	1436	GW	JAR						✓	✓			✓				3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type P P P P P P A P P P P
Preservative A A A D ME A A C C C C

Relinquished By:

Date/Time

Received By:

Date/Time