TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 580-15035-1

Job Description: CleanHarbors-SEATAC

For:

Clean Harbors Environmental Services Inc
19320 Des Moines Memorial Dr
Bldg D, Suite 400
Seatac, WA 98148

Attention: Shawn Estrada

Approved for release.
Heather Curbow
Project Manager I
9/4/2009 5:26 PM

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09/04/2009

Revision: 1

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

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ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
580-J15035-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
Method(s) 300.0:
The following samples required a dilution which was performed outside of the analytical holding time: 15035-1-10, 15-20.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL TAC	SW846 6010B	
Preparation, Metals	TAL TAC		SW846 3050B
Chromium, Hexavalent	TAL TAC		SW846 7195
Mercury (CVAA)	TAL TAC	SW846 7471A	
Preparation, Mercury	TAL TAC		SW846 7471A
Anions, Ion Chromatography	TAL TAC	MCAWW 300.0	
Anions, Ion Chromatography	TAL TAC	MCAWW 300.0	
Deionized Water Leaching Procedure	TAL TAC		ASTM DI Leach
Deionized Water Leaching Procedure	TAL TAC		ASTM DI Leach
pH	TAL TAC	SW846 9045C	
Percent Moisture	TAL TAC	EPA Moisture	
Matrix: Water			
Metals (ICP)	TAL TAC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAC		SW846 3005A
Chromium, Hexavalent	TAL TAC		SW846 7195
Mercury (CVAA)	TAL TAC	SW846 7470A	
Preparation, Mercury	TAL TAC		SW846 7470A
Anions, Ion Chromatography	TAL TAC	MCAWW 300.0	
Anions, Ion Chromatography	TAL TAC	MCAWW 300.0	
pH	TAL TAC	SW846 9040B	

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-15035-1	TPBC-1	Solid	08/19/2009 1715	08/20/2009 0920
580-15035-2	TPFC-1 DUP	Solid	08/19/2009 1517	08/20/2009 0920
580-15035-3	TPFC-1	Solid	08/19/2009 1515	08/20/2009 0920
580-15035-4	TPWC-1	Solid	08/19/2009 1520	08/20/2009 0920
580-15035-5	TIR-1 DUP	Water	08/19/2009 1447	08/20/2009 0920
580-15035-6	TER-1	Water	08/19/2009 1425	08/20/2009 0920
580-15035-7	TPR-1	Water	08/19/2009 1455	08/20/2009 0920
580-15035-8	TIR-1	Water	08/19/2009 1445	08/20/2009 0920
580-15035-9	TPNW-1	Solid	08/19/2009 0900	08/20/2009 0920
580-15035-10	TP-1 12"	Solid	08/19/2009 1159	08/20/2009 0920
580-15035-11	TP-1 20"	Solid	08/19/2009 1209	08/20/2009 0920
580-15035-12	TP-1 20" DUP	Solid	08/19/2009 1211	08/20/2009 0920
580-15035-13	TP-1 36"	Solid	08/19/2009 1430	08/20/2009 0920
580-15035-14	TP-1 74"	Solid	08/19/2009 1645	08/20/2009 0920
580-15035-15	TP-2 9"	Solid	08/19/2009 1130	08/20/2009 0920
580-15035-16	TP-2 15"	Solid	08/19/2009 1135	08/20/2009 0920
580-15035-17	TP-2 15" DUP	Solid	08/19/2009 1138	08/20/2009 0920
580-15035-18	TP-2 36"	Solid	08/19/2009 1150	08/20/2009 0920
580-15035-19	TP-3 6"	Solid	08/19/2009 1051	08/20/2009 0920
580-15035-20	TP-3 6" DUP	Solid	08/19/2009 1053	08/20/2009 0920
580-15035-21	TP-3 12"	Solid	08/19/2009 1100	08/20/2009 0920
580-15035-22	TP-3 36"	Solid	08/19/2009 1115	08/20/2009 0920
580-15035-23	BG-1 6"	Solid	08/19/2009 0945	08/20/2009 0920
580-15035-24	BG-1 30"	Solid	08/19/2009 0951	08/20/2009 0920
580-15035-25	BG-1 30" DUP	Solid	08/19/2009 0952	08/20/2009 0920
580-15035-26	BG-1 39"	Solid	08/19/2009 1005	08/20/2009 0920

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TPBC-1**

Lab Sample ID: 580-15035-1
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 08/19/2009 1715
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 08/26/2009 1414
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0396 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		11		3.0
Barium		10		0.50
Cadmium		ND		0.50
Chromium		4.2		1.3
Lead		5.1		1.5
Selenium		5.7		5.0
Silver		ND		0.99
Copper		8.4		0.99
Zinc		28		2.5

Method: 6010B
Preparation: 7195
Dilution: 1.0
Date Analyzed: 08/27/2009 2256
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0264 mL
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		ND		0.27

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 08/26/2009 1221
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5613 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.018

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TPFC-1 DUP**

Lab Sample ID: 580-15035-2
Client Matrix: Solid
% Moisture: 6.5

Date Sampled: 08/19/2009 1517
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49216		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49116		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0689 g
Date Analyzed:	08/26/2009 1458			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1134				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		290		3.0
Barium		87		0.50
Cadmium		0.84		0.50
Chromium		4300		1.3
Lead		31		1.5
Selenium		260		5.0
Silver		ND		1.0
Copper		49		1.0
Zinc		300		2.5

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0808 mL
Date Analyzed:	08/27/2009 2259			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		74		0.27

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49098		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5037 g
Date Analyzed:	08/26/2009 1243			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 0917				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.025		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TPFC-1**

Lab Sample ID: 580-15035-3
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 08/19/2009 1515
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49216		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49116		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0211 g
Date Analyzed:	08/26/2009 1501			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1134				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		200		3.2
Barium		88		0.53
Cadmium		ND		0.53
Chromium		2300		1.4
Lead		40		1.6
Selenium		120		5.3
Silver		ND		1.1
Copper		100		1.1
Zinc		370		2.6

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0324 mL
Date Analyzed:	08/27/2009 2313			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		45		0.28

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49098		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5485 g
Date Analyzed:	08/26/2009 1247			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 0917				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.024		0.020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TPWC-1**

Lab Sample ID: 580-15035-4
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 08/19/2009 1520
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49216		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49116		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0460 g
Date Analyzed:	08/26/2009 1505			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1134				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		81		3.0
Barium		60		0.49
Cadmium		ND		0.49
Chromium		740		1.3
Lead		30		1.5
Selenium		27		4.9
Silver		ND		0.99
Copper		52		0.99
Zinc		210		2.5

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0383 mL
Date Analyzed:	08/27/2009 2316			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		200		0.27

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49098		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5434 g
Date Analyzed:	08/26/2009 1259			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 0917				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.019

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TIR-1 DUP**

Lab Sample ID: 580-15035-5
Client Matrix: Water

Date Sampled: 08/19/2009 1447
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-48864		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-48778		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/21/2009 1242			Final Weight/Volume:	50 mL
Date Prepared:	08/20/2009 1330				

Analyte	Result (mg/L)	Qualifier	RL
Hexavalent chromium	17	*	0.025

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 580-49028		Instrument ID:	SEA027
Preparation:	3005A	Prep Batch: 580-48943		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/24/2009 2057			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1049				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.060
Barium	0.22		0.010
Chromium	26		0.025
Lead	0.84		0.030
Selenium	ND		0.10
Silver	ND		0.020
Copper	1.6		0.020
Zinc	21		0.040

Method:	6010B	Analysis Batch: 580-49036		Instrument ID:	SEA027
Preparation:	3005A	Prep Batch: 580-48943		Lab File ID:	N/A
Dilution:	100			Initial Weight/Volume:	50 mL
Date Analyzed:	08/25/2009 1201			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1049				

Analyte	Result (mg/L)	Qualifier	RL
Cadmium	ND		1.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 580-49069		Instrument ID:	SEA029
Preparation:	7470A	Prep Batch: 580-48965		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/25/2009 1042			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1333				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	0.00070		0.00020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TER-1

Lab Sample ID: 580-15035-6
Client Matrix: Water

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-48864		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-48778		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/21/2009 1246			Final Weight/Volume:	50 mL
Date Prepared:	08/20/2009 1330				

Analyte	Result (mg/L)	Qualifier	RL
Hexavalent chromium	1.8	*	0.025

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 580-49028		Instrument ID:	SEA027
Preparation:	3005A	Prep Batch: 580-48943		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/24/2009 2104			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1049				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.060
Barium	0.028		0.010
Cadmium	ND		0.010
Chromium	5.5		0.025
Lead	0.078		0.030
Selenium	ND		0.10
Silver	ND		0.020
Copper	0.29		0.020
Zinc	3.6		0.040

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 580-49069		Instrument ID:	SEA029
Preparation:	7470A	Prep Batch: 580-48965		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/25/2009 1046			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1333				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	0.0010		0.00020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TPR-1**

Lab Sample ID: 580-15035-7
Client Matrix: Water

Date Sampled: 08/19/2009 1455
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-48864		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-48778		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/21/2009 1249			Final Weight/Volume:	50 mL
Date Prepared:	08/20/2009 1330				

Analyte	Result (mg/L)	Qualifier	RL
Hexavalent chromium	21	*	0.025

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 580-49028		Instrument ID:	SEA027
Preparation:	3005A	Prep Batch: 580-48943		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/24/2009 2110			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1049				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.060
Barium	0.28		0.010
Chromium	18		0.025
Lead	0.46		0.030
Selenium	0.13		0.10
Silver	ND		0.020
Copper	1.8		0.020
Zinc	11		0.040

Method:	6010B	Analysis Batch: 580-49036		Instrument ID:	SEA027
Preparation:	3005A	Prep Batch: 580-48943		Lab File ID:	N/A
Dilution:	100			Initial Weight/Volume:	50 mL
Date Analyzed:	08/25/2009 1203			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1049				

Analyte	Result (mg/L)	Qualifier	RL
Cadmium	ND		1.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 580-49069		Instrument ID:	SEA029
Preparation:	7470A	Prep Batch: 580-48965		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/25/2009 1051			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1333				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	0.00041		0.00020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TIR-1**

Lab Sample ID: 580-15035-8
Client Matrix: Water

Date Sampled: 08/19/2009 1445
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-48864		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-48778		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/21/2009 1252			Final Weight/Volume:	50 mL
Date Prepared:	08/20/2009 1330				

Analyte	Result (mg/L)	Qualifier	RL
Hexavalent chromium	28	*	0.025

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 580-49028		Instrument ID:	SEA027
Preparation:	3005A	Prep Batch: 580-48943		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/24/2009 2116			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1049				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.060
Barium	0.26		0.010
Cadmium	ND		0.010
Chromium	46		0.025
Lead	1.2		0.030
Selenium	0.15		0.10
Silver	ND		0.020
Copper	2.4		0.020
Zinc	37		0.040

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 580-49069		Instrument ID:	SEA029
Preparation:	7470A	Prep Batch: 580-48965		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/25/2009 1055			Final Weight/Volume:	50 mL
Date Prepared:	08/24/2009 1333				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	0.0015		0.00020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TPNW-1**

Lab Sample ID: 580-15035-9
Client Matrix: Solid
% Moisture: 20.4

Date Sampled: 08/19/2009 0900
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 08/26/2009 1508
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0480 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		680		3.6
Barium		50		0.60
Cadmium		ND		0.60
Chromium		2500		1.6
Lead		15		1.8
Selenium		190		6.0
Silver		ND		1.2
Copper		18		1.2
Zinc		45		3.0

Method: 6010B
Preparation: 7195
Dilution: 1.0
Date Analyzed: 08/27/2009 2203
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0462 mL
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		8.2		0.32

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 08/26/2009 1304
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5020 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.20		0.025

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TP-1 12"

Lab Sample ID: 580-15035-10
Client Matrix: Solid
% Moisture: 11.0
Date Sampled: 08/19/2009 1159
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 08/26/2009 1512
Date Prepared: 08/26/2009 1134
Analysis Batch: 580-49216
Prep Batch: 580-49116
Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0114 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		94		3.3
Barium		48		0.56
Cadmium		ND		0.56
Chromium		990		1.4
Lead		8.4		1.7
Selenium		42		5.6
Silver		ND		1.1
Copper		46		1.1
Zinc		52		2.8

Method: 6010B
Preparation: 7195
Dilution: 1.0
Date Analyzed: 08/27/2009 2231
Date Prepared: 08/27/2009 1025
Analysis Batch: 580-49300
Prep Batch: 580-49221
Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0453 mL
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		2.1		0.29

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 08/26/2009 1308
Date Prepared: 08/26/2009 0917
Analysis Batch: 580-49213
Prep Batch: 580-49098
Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5345 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.032		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-1 20"**

Lab Sample ID: 580-15035-11
Client Matrix: Solid
% Moisture: 11.8

Date Sampled: 08/19/2009 1209
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 08/26/2009 1515
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0389 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		74		3.3
Barium		42		0.55
Cadmium		ND		0.55
Chromium		730		1.4
Lead		6.1		1.6
Selenium		35		5.5
Silver		ND		1.1
Copper		16		1.1
Zinc		28		2.7

Method: 6010B
Preparation: 7195
Dilution: 1.0
Date Analyzed: 08/27/2009 2235
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0848 mL
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		2.0		0.29

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 08/26/2009 1312
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5436 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.023		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-1 20" DUP**

Lab Sample ID: 580-15035-12
Client Matrix: Solid
% Moisture: 10.7

Date Sampled: 08/19/2009 1211
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49216		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49116		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0122 g
Date Analyzed:	08/26/2009 1519			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1134				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		72		3.3
Barium		41		0.55
Cadmium		ND		0.55
Chromium		750		1.4
Lead		6.0		1.7
Selenium		34		5.5
Silver		ND		1.1
Copper		14		1.1
Zinc		27		2.8

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0353 mL
Date Analyzed:	08/27/2009 2238			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		1.9		0.29

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49098		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5557 g
Date Analyzed:	08/26/2009 1316			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 0917				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-1 36"**

Lab Sample ID: 580-15035-13
Client Matrix: Solid
% Moisture: 10.9

Date Sampled: 08/19/2009 1430
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 08/26/2009 1522
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0349 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		210		3.3
Barium		28		0.54
Cadmium		ND		0.54
Chromium		750		1.4
Lead		21		1.6
Selenium		35		5.4
Silver		ND		1.1
Copper		12		1.1
Zinc		18		2.7

Method: 6010B
Preparation: 7195
Dilution: 1.0
Date Analyzed: 08/27/2009 2242
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0800 mL
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		2.0		0.29

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 08/26/2009 1320
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5209 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.039		0.022

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TP-1 74"

Lab Sample ID: 580-15035-14
Client Matrix: Solid
% Moisture: 15.5

Date Sampled: 08/19/2009 1645
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49216		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49116		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0255 g
Date Analyzed:	08/26/2009 1537			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1134				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.2		3.5
Barium		21		0.58
Cadmium		ND		0.58
Chromium		240		1.5
Lead		3.8		1.7
Selenium		12		5.8
Silver		ND		1.2
Copper		38		1.2
Zinc		84		2.9

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0766 mL
Date Analyzed:	08/27/2009 2245			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		1.6		0.30

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49098		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5627 g
Date Analyzed:	08/26/2009 1325			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 0917				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-2 9"**

Lab Sample ID: 580-15035-15
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 08/19/2009 1130
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49216		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49116		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0323 g
Date Analyzed:	08/26/2009 1541			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1134				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.6		3.1
Barium		61		0.52
Cadmium		ND		0.52
Chromium		52		1.4
Lead		300		1.6
Selenium		17		5.2
Silver		ND		1.0
Copper		230		1.0
Zinc		480		2.6

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0367 mL
Date Analyzed:	08/27/2009 2249			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		5.9		0.28

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49098		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5058 g
Date Analyzed:	08/26/2009 1329			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 0917				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TP-2 15"

Lab Sample ID: 580-15035-16
Client Matrix: Solid
% Moisture: 19.7

Date Sampled: 08/19/2009 1135
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0163 g
Date Analyzed:	08/26/2009 1644			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		4.6		3.7
Barium		110		0.61
Cadmium		0.67		0.61
Chromium		20		1.6
Lead		180		1.8
Selenium		8.5		6.1
Silver		ND		1.2
Copper		460		1.2
Zinc		420		3.1

Method:	6010B	Analysis Batch: 580-49300		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49221		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0443 mL
Date Analyzed:	08/27/2009 2252			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1025				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		0.33		0.32

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5130 g
Date Analyzed:	08/26/2009 1356			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.095		0.024

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-2 15" DUP**

Lab Sample ID: 580-15035-17
Client Matrix: Solid
% Moisture: 22.6

Date Sampled: 08/19/2009 1138
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0020 g
Date Analyzed:	08/26/2009 1730			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.7		3.9
Barium		140		0.64
Cadmium		0.71		0.64
Chromium		16		1.7
Lead		130		1.9
Selenium		6.5		6.4
Silver		ND		1.3
Copper		410		1.3
Zinc		350		3.2

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0527 mL
Date Analyzed:	08/27/2009 2344			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		ND		0.33

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5472 g
Date Analyzed:	08/26/2009 1418			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.073		0.024

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TP-2 36"

Lab Sample ID: 580-15035-18
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 08/19/2009 1150
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0588 g
Date Analyzed:	08/26/2009 1734			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		3.1
Barium		28		0.52
Cadmium		ND		0.52
Chromium		75		1.3
Lead		11		1.6
Selenium		9.5		5.2
Silver		ND		1.0
Copper		83		1.0
Zinc		120		2.6

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0233 mL
Date Analyzed:	08/28/2009 0012			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		4.9		0.28

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5395 g
Date Analyzed:	08/26/2009 1422			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.030		0.020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-3 6"**

Lab Sample ID: 580-15035-19
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 08/19/2009 1051
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0420 g
Date Analyzed:	08/26/2009 1739			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.8		3.1
Barium		34		0.51
Cadmium		ND		0.51
Chromium		100		1.3
Lead		63		1.5
Selenium		11		5.1
Silver		ND		1.0
Copper		190		1.0
Zinc		150		2.6

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0594 mL
Date Analyzed:	08/28/2009 0016			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		7.1		0.27

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5565 g
Date Analyzed:	08/26/2009 1435			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.019

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **TP-3 6" DUP**

Lab Sample ID: 580-15035-20
Client Matrix: Solid
% Moisture: 6.5
Date Sampled: 08/19/2009 1053
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0599 g
Date Analyzed:	08/26/2009 1743			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.3		3.0
Barium		45		0.50
Cadmium		ND		0.50
Chromium		40		1.3
Lead		32		1.5
Selenium		11		5.0
Silver		ND		1.0
Copper		130		1.0
Zinc		140		2.5

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0614 mL
Date Analyzed:	08/28/2009 0019			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		5.9		0.27

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5364 g
Date Analyzed:	08/26/2009 1439			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.020

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TP-3 12"

Lab Sample ID: 580-15035-21
Client Matrix: Solid
% Moisture: 10.8

Date Sampled: 08/19/2009 1100
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0354 g
Date Analyzed:	08/26/2009 1748			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.7		3.2
Barium		130		0.54
Cadmium		ND		0.54
Chromium		720		1.4
Lead		220		1.6
Selenium		18		5.4
Silver		ND		1.1
Copper		330		1.1
Zinc		160		2.7

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0690 mL
Date Analyzed:	08/28/2009 0023			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		26		0.29

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5307 g
Date Analyzed:	08/26/2009 1443			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.11		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: TP-3 36"

Lab Sample ID: 580-15035-22
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 08/19/2009 1115
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0631 g
Date Analyzed:	08/26/2009 1752			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		3.1
Barium		42		0.52
Cadmium		ND		0.52
Chromium		170		1.4
Lead		110		1.6
Selenium		10		5.2
Silver		ND		1.0
Copper		270		1.0
Zinc		65		2.6

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0493 mL
Date Analyzed:	08/28/2009 0026			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		2.9		0.29

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5715 g
Date Analyzed:	08/26/2009 1449			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.25		0.019

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **BG-1 6"**

Lab Sample ID: 580-15035-23
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 08/19/2009 0945
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0393 g
Date Analyzed:	08/26/2009 1757			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		10		3.1
Barium		31		0.51
Cadmium		ND		0.51
Chromium		20		1.3
Lead		5.7		1.5
Selenium		12		5.1
Silver		ND		1.0
Copper		24		1.0
Zinc		41		2.6

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0529 mL
Date Analyzed:	08/28/2009 0030			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		0.57		0.27

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5041 g
Date Analyzed:	08/26/2009 1454			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: BG-1 30"

Lab Sample ID: 580-15035-24
Client Matrix: Solid
% Moisture: 9.4

Date Sampled: 08/19/2009 0951
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0132 g
Date Analyzed:	08/26/2009 1801			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		3.3
Barium		43		0.54
Cadmium		ND		0.54
Chromium		55		1.4
Lead		2.6		1.6
Selenium		14		5.4
Silver		ND		1.1
Copper		33		1.1
Zinc		46		2.7

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0282 mL
Date Analyzed:	08/28/2009 0033			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		1.0		0.29

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5784 g
Date Analyzed:	08/26/2009 1458			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.019

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **BG-1 30" DUP**

Lab Sample ID: 580-15035-25
Client Matrix: Solid
% Moisture: 9.5

Date Sampled: 08/19/2009 0952
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0520 g
Date Analyzed:	08/26/2009 1816			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		3.2
Barium		36		0.53
Cadmium		ND		0.53
Chromium		190		1.4
Lead		1.8		1.6
Selenium		14		5.3
Silver		ND		1.1
Copper		34		1.1
Zinc		24		2.6

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0473 mL
Date Analyzed:	08/28/2009 0037			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		12		0.28

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5287 g
Date Analyzed:	08/26/2009 1502			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.021

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Client Sample ID: **BG-1 39"**

Lab Sample ID: 580-15035-26
Client Matrix: Solid
% Moisture: 16.3

Date Sampled: 08/19/2009 1005
Date Received: 08/20/2009 0920

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-49217		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-49123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0633 g
Date Analyzed:	08/26/2009 1821			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1215				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		3.7		3.4
Barium		35		0.56
Cadmium		ND		0.56
Chromium		510		1.5
Lead		33		1.7
Selenium		20		5.6
Silver		ND		1.1
Copper		290		1.1
Zinc		53		2.8

Method:	6010B	Analysis Batch: 580-49306		Instrument ID:	SEA027
Preparation:	7195	Prep Batch: 580-49237		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5.0393 mL
Date Analyzed:	08/28/2009 0040			Final Weight/Volume:	50 mL
Date Prepared:	08/27/2009 1244				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Hexavalent chromium		11		0.31

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-49213		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-49113		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.5370 g
Date Analyzed:	08/26/2009 1506			Final Weight/Volume:	50 mL
Date Prepared:	08/26/2009 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.022

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: TPBC-1

Lab Sample ID: 580-15035-1
Client Matrix: Solid
% Moisture: 2.9
Date Sampled: 08/19/2009 1715
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	68	H	mg/Kg	0.53	5.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 1940					DryWt Corrected: Y
Fluoride-Soluble	94		mg/Kg	3.2	5.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 1940					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/26/2009 2216					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	11.8		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	97		%	0.10	1.0	Moisture
Analysis Batch: 580-48914	Date Analyzed: 08/23/2009 0924					DryWt Corrected: N
Percent Moisture	2.9		%	0.10	1.0	Moisture
Analysis Batch: 580-48914	Date Analyzed: 08/23/2009 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **TPFC-1 DUP**

Lab Sample ID: 580-15035-2
Client Matrix: Solid
% Moisture: 6.5
Date Sampled: 08/19/2009 1517
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	1900	H	mg/Kg	10	100	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 2112					DryWt Corrected: Y
Fluoride-Soluble	1100		mg/Kg	61	100	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2112					DryWt Corrected: Y
Chloride-Soluble	25		mg/Kg	3.4	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/26/2009 2311					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	3.06		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	93		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	6.5		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: TPFC-1

Lab Sample ID: 580-15035-3
Client Matrix: Solid
% Moisture: 7.3
Date Sampled: 08/19/2009 1515
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	2200	H	mg/Kg	8.6	100	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 2130					DryWt Corrected: Y
Fluoride-Soluble	2800		mg/Kg	51	100	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2130					DryWt Corrected: Y
Chloride-Soluble	5.4		mg/Kg	2.8	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/26/2009 2330					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	3.30		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	93		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	7.3		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **TPWC-1**

Lab Sample ID: 580-15035-4 | Date Sampled: 08/19/2009 1520

Client Matrix: Solid | % Moisture: 3.2 | Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	5400	H	mg/Kg	55	500	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 2148					DryWt Corrected: Y
Fluoride-Soluble	3100		mg/Kg	33	50	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2207					DryWt Corrected: Y
Chloride-Soluble	43		mg/Kg	3.6	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/26/2009 2348					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	2.83		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	97		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	3.2		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **TIR-1 DUP**

Lab Sample ID: 580-15035-5
Client Matrix: Water

Date Sampled: 08/19/2009 1447
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Fluoride	480		mg/L	100	1000	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/28/2009 0547					
Nitrate as N	400	H	mg/L	300	1000	300.0
Analysis Batch: 580-49343	Date Analyzed: 08/28/2009 0547					
Chloride	4.3		mg/L	0.90	1.0	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/27/2009 1445					

Analyte	Result	Qual	Units	Dil	Method
pH	3.33	HF	SU	1.0	9040B
Analysis Batch: 580-49355	Date Analyzed: 08/28/2009 1834				

General Chemistry

Client Sample ID: **TER-1**

Lab Sample ID: 580-15035-6
Client Matrix: Water

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Fluoride	2000		mg/L	100	1000	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/28/2009 0642					
Nitrate as N	200	H	mg/L	30	100	300.0
Analysis Batch: 580-49343	Date Analyzed: 08/28/2009 1610					
Chloride	2.9		mg/L	0.90	1.0	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/27/2009 1540					

Analyte	Result	Qual	Units	Dil	Method
pH	3.47	HF	SU	1.0	9040B
Analysis Batch: 580-49355	Date Analyzed: 08/28/2009 1834				

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TPR-1**

Lab Sample ID: 580-15035-7
Client Matrix: Water

Date Sampled: 08/19/2009 1455
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Fluoride	740		mg/L	100	1000	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/28/2009 0701					
Nitrate as N	440	H	mg/L	300	1000	300.0
Analysis Batch: 580-49343	Date Analyzed: 08/28/2009 0701					
Chloride	4.2		mg/L	0.90	1.0	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/27/2009 1559					

Analyte	Result	Qual	Units	Dil	Method
pH	2.75	HF	SU	1.0	9040B
Analysis Batch: 580-49355	Date Analyzed: 08/28/2009 1834				

General Chemistry

Client Sample ID: **TIR-1**

Lab Sample ID: 580-15035-8
Client Matrix: Water

Date Sampled: 08/19/2009 1445
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Fluoride	1600		mg/L	100	1000	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/28/2009 0719					
Nitrate as N	950	H	mg/L	300	1000	300.0
Analysis Batch: 580-49343	Date Analyzed: 08/28/2009 0719					
Chloride	4.6		mg/L	0.90	1.0	300.0
Analysis Batch: 580-49338	Date Analyzed: 08/27/2009 1617					

Analyte	Result	Qual	Units	Dil	Method
pH	1.90	HF	SU	1.0	9040B
Analysis Batch: 580-49355	Date Analyzed: 08/28/2009 1834				

General Chemistry

Client Sample ID: **TPNW-1**

Lab Sample ID: 580-15035-9 | Date Sampled: 08/19/2009 0900
Client Matrix: Solid | % Moisture: 20.4 | Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	340	H	mg/Kg	1.2	10	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 2225					DryWt Corrected: Y
Fluoride-Soluble	880		mg/Kg	7.2	10	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2225					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	4.0	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0043					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	3.37		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	80		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	20		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TP-1 12"**

Lab Sample ID: 580-15035-10
Client Matrix: Solid
% Moisture: 11.0

Date Sampled: 08/19/2009 1159
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	82	H	mg/Kg	1.1	10	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 2244					DryWt Corrected: Y
Fluoride-Soluble	1100		mg/Kg	6.4	10	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2244					DryWt Corrected: Y
Chloride-Soluble	7.3		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0102					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	6.67		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-1 20"**

Lab Sample ID: 580-15035-11 Date Sampled: 08/19/2009 1209
Client Matrix: Solid % Moisture: 11.8 Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	40		mg/Kg	0.11	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0120					DryWt Corrected: Y
Fluoride-Soluble	1600		mg/Kg	6.5	10	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2302					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	3.6	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0120					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	5.78		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TP-1 20" DUP**

Lab Sample ID: 580-15035-12
Client Matrix: Solid
% Moisture: 10.7
Date Sampled: 08/19/2009 1211
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	43		mg/Kg	0.11	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0139					DryWt Corrected: Y
Fluoride-Soluble	1500		mg/Kg	6.4	10	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 2339					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0139					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	5.98		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-1 36"**

Lab Sample ID: 580-15035-13 | Date Sampled: 08/19/2009 1430
Client Matrix: Solid | % Moisture: 10.9 | Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	12		mg/Kg	0.11	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0157					DryWt Corrected: Y
Fluoride-Soluble	910		mg/Kg	6.6	10	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/28/2009 0053					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	3.6	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0157					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	4.61		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **TP-1 74"**

Lab Sample ID: 580-15035-14 | Date Sampled: 08/19/2009 1645
Client Matrix: Solid | % Moisture: 15.5 | Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	32		mg/Kg	0.12	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0215					DryWt Corrected: Y
Fluoride-Soluble	310		mg/Kg	3.5	5.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/28/2009 0129					DryWt Corrected: Y
Chloride-Soluble	6.6		mg/Kg	3.9	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0215					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	4.86		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	85		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	15		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TP-2 9"**

Lab Sample ID: 580-15035-15
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 08/19/2009 1130
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	100	H	mg/Kg	0.50	5.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/28/2009 0206					DryWt Corrected: Y
Fluoride-Soluble	100		mg/Kg	0.60	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0234					DryWt Corrected: Y
Chloride-Soluble	5.2		mg/Kg	3.3	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0234					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	9.45		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	93		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	6.9		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: TP-2 15"

Lab Sample ID: 580-15035-16
Client Matrix: Solid
% Moisture: 19.7
Date Sampled: 08/19/2009 1135
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	530	H	mg/Kg	1.2	10	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/28/2009 0243					DryWt Corrected: Y
Fluoride-Soluble	10		mg/Kg	0.73	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0252					DryWt Corrected: Y
Chloride-Soluble	4.4		mg/Kg	4.0	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0252					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	5.38		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	80		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	20		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: TP-2 15" DUP

Lab Sample ID: 580-15035-17
Client Matrix: Solid
% Moisture: 22.6
Date Sampled: 08/19/2009 1138
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	540	H	mg/Kg	1.2	10	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/28/2009 0320					DryWt Corrected: Y
Fluoride-Soluble	9.5		mg/Kg	0.71	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0311					DryWt Corrected: Y
Chloride-Soluble	4.3		mg/Kg	3.9	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0311					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	4.83		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	77		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	23		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TP-2 36"**

Lab Sample ID: 580-15035-18
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 08/19/2009 1150
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	93	H	mg/Kg	0.53	5.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/28/2009 0434					DryWt Corrected: Y
Fluoride-Soluble	150		mg/Kg	0.63	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0329					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0329					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	5.85		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	8.8		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TP-3 6"**

Lab Sample ID: 580-15035-19

Client Matrix: Solid

% Moisture: 6.1

Date Sampled: 08/19/2009 1051

Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	68	H	mg/Kg	0.53	5.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/28/2009 0510					DryWt Corrected: Y
Fluoride-Soluble	55		mg/Kg	0.63	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0424					DryWt Corrected: Y
Chloride-Soluble	3.7		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0424					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	8.11		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	94		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	6.1		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

General Chemistry

Client Sample ID: **TP-3 6" DUP**

Lab Sample ID: 580-15035-20

Client Matrix: Solid

% Moisture: 6.5

Date Sampled: 08/19/2009 1053

Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	55	H	mg/Kg	0.49	5.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/28/2009 0529					DryWt Corrected: Y
Fluoride-Soluble	49		mg/Kg	0.59	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0443					DryWt Corrected: Y
Chloride-Soluble	ND		mg/Kg	3.2	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0443					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	8.33		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	94		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	6.5		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: TP-3 12"

Lab Sample ID: 580-15035-21
Client Matrix: Solid
% Moisture: 10.8
Date Sampled: 08/19/2009 1100
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	44		mg/Kg	0.10	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0501					DryWt Corrected: Y
Fluoride-Soluble	74		mg/Kg	0.62	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0501					DryWt Corrected: Y
Chloride-Soluble	3.8		mg/Kg	3.4	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0501					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	8.29		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: TP-3 36"

Lab Sample ID: 580-15035-22
Client Matrix: Solid
% Moisture: 9.9
Date Sampled: 08/19/2009 1115
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	7.7		mg/Kg	0.10	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0520					DryWt Corrected: Y
Fluoride-Soluble	14		mg/Kg	0.63	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0520					DryWt Corrected: Y
Chloride-Soluble	4.6		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0520					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	5.65		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	90		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	9.9		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **BG-1 6"**

Lab Sample ID: 580-15035-23
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 08/19/2009 0945
Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	0.62		mg/Kg	0.10	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0537					DryWt Corrected: Y
Fluoride-Soluble	2.5		mg/Kg	0.62	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0537					DryWt Corrected: Y
Chloride-Soluble	5.5		mg/Kg	3.4	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0537					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	9.09		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	94		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	6.2		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **BG-1 30"**

Lab Sample ID: 580-15035-24 — Date Sampled: 08/19/2009 0951

Client Matrix: Solid — % Moisture: 9.4 — Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	12		mg/Kg	0.10	1.0	300.0
Analysis Batch: 580-49352	Date Analyzed: 08/27/2009 0555					DryWt Corrected: Y
Fluoride-Soluble	27		mg/Kg	0.60	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0555					DryWt Corrected: Y
Chloride-Soluble	6.8		mg/Kg	3.3	1.0	300.0
Analysis Batch: 580-49350	Date Analyzed: 08/27/2009 0555					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	5.23		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	9.4		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **BG-1 30" DUP**

Lab Sample ID: 580-15035-25 | Date Sampled: 08/19/2009 0952
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	8.5		mg/Kg	0.11	1.0	300.0
Analysis Batch: 580-49354	Date Analyzed: 08/28/2009 1420					DryWt Corrected: Y
Fluoride-Soluble	12		mg/Kg	0.63	1.0	300.0
Analysis Batch: 580-49353	Date Analyzed: 08/28/2009 1420					DryWt Corrected: Y
Chloride-Soluble	4.8		mg/Kg	3.5	1.0	300.0
Analysis Batch: 580-49353	Date Analyzed: 08/28/2009 1420					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	6.64		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1713				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N
Percent Moisture	9.5		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1037					DryWt Corrected: N

General Chemistry

Client Sample ID: **BG-1 39"**

Lab Sample ID: 580-15035-26 | Date Sampled: 08/19/2009 1005
Client Matrix: Solid | % Moisture: 16.3 | Date Received: 08/20/2009 0920

Analyte	Result	Qual	Units	RL	Dil	Method
Nitrate as N-Soluble	3.6		mg/Kg	0.12	1.0	300.0
Analysis Batch: 580-49354	Date Analyzed: 08/28/2009 1438					DryWt Corrected: Y
Fluoride-Soluble	68		mg/Kg	0.70	1.0	300.0
Analysis Batch: 580-49353	Date Analyzed: 08/28/2009 1438					DryWt Corrected: Y
Chloride-Soluble	6.8		mg/Kg	3.9	1.0	300.0
Analysis Batch: 580-49353	Date Analyzed: 08/28/2009 1438					DryWt Corrected: Y

Analyte	Result	Qual	Units	Dil	Method
pH	7.98		SU	1.0	9045C
Analysis Batch: 580-49076	Date Analyzed: 08/25/2009 1720				DryWt Corrected: N

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1046					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-48915	Date Analyzed: 08/23/2009 1046					DryWt Corrected: N

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-48778

Method: 6010B
Preparation: 7195

Lab Sample ID: MB 580-48778/23-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/21/2009 1119
Date Prepared: 08/20/2009 1431

Analysis Batch: 580-48864
Prep Batch: 580-48778
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Hexavalent chromium	ND		0.025

LCS-Standard Reference Material - Batch: 580-48778

Method: 6010B
Preparation: 7195

Lab Sample ID: LCSSRM 580-48778/26-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/21/2009 1129
Date Prepared: 08/20/2009 1431

Analysis Batch: 580-48864
Prep Batch: 580-48778
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexavalent chromium	2.00	1.96	98	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-48778

Method: 6010B
Preparation: 7195

LCS Lab Sample ID: LCS 580-48778/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/21/2009 1122
Date Prepared: 08/20/2009 1431

Analysis Batch: 580-48864
Prep Batch: 580-48778
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-48778/25-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/21/2009 1125
Date Prepared: 08/20/2009 1431

Analysis Batch: 580-48864
Prep Batch: 580-48778
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Hexavalent chromium	107	87	80 - 120	21	20		*

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-48943

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 580-48943/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/24/2009 1846
Date Prepared: 08/24/2009 1049

Analysis Batch: 580-49028
Prep Batch: 580-48943
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		0.060
Barium	ND		0.010
Cadmium	ND		0.010
Chromium	ND		0.025
Lead	ND		0.030
Selenium	ND		0.10
Silver	ND		0.020
Copper	ND		0.020
Zinc	ND		0.040

Method Blank - Batch: 580-48943

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 580-48943/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2009 1158
Date Prepared: 08/24/2009 1049

Analysis Batch: 580-49036
Prep Batch: 580-48943
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cadmium	ND		0.010

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-48943

Method: 6010B
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID: LCS 580-48943/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/24/2009 1924
Date Prepared: 08/24/2009 1049

Analysis Batch: 580-49028
Prep Batch: 580-48943
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-48943/22-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/24/2009 1929
Date Prepared: 08/24/2009 1049

Analysis Batch: 580-49028
Prep Batch: 580-48943
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	93	94	80 - 120	1	20		
Barium	101	103	80 - 120	2	20		
Cadmium	97	99	80 - 120	2	20		
Chromium	100	102	80 - 120	2	20		
Lead	99	101	80 - 120	2	20		
Selenium	89	90	80 - 120	2	20		
Silver	98	99	80 - 120	1	20		
Copper	100	102	80 - 120	2	20		
Zinc	98	100	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49116

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 580-49116/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1407
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		3.0
Barium	ND		0.50
Cadmium	ND		0.50
Chromium	ND		1.3
Lead	ND		1.5
Selenium	ND		5.0
Silver	ND		1.0
Copper	ND		1.0
Zinc	ND		2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-49116

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-49116/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1438
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-49116/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1443
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	100	97	80 - 120	3	35		
Barium	103	101	80 - 120	1	35		
Cadmium	99	96	80 - 120	3	35		
Chromium	102	101	80 - 120	1	35		
Lead	101	98	80 - 120	3	35		
Selenium	96	93	80 - 120	3	35		
Silver	97	96	80 - 120	2	35		
Copper	101	99	80 - 120	2	35		
Zinc	100	98	80 - 120	2	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49116

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	580-15035-1	Analysis Batch: 580-49216	Instrument ID: SEA027
Client Matrix:	Solid	Prep Batch: 580-49116	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0757 g
Date Analyzed:	08/26/2009 1427		Final Weight/Volume: 50 mL
Date Prepared:	08/26/2009 1134		

MSD Lab Sample ID:	580-15035-1	Analysis Batch: 580-49216	Instrument ID: SEA027
Client Matrix:	Solid	Prep Batch: 580-49116	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0448 g
Date Analyzed:	08/26/2009 1431		Final Weight/Volume: 50 mL
Date Prepared:	08/26/2009 1134		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	151	149	75 - 125	2	35	F	F
Barium	99	111	75 - 125	14	35		
Cadmium	79	82	75 - 125	7	35		
Chromium	249	430	75 - 125	53	35	F	F
Lead	176	179	75 - 125	4	35	F	F
Selenium	94	97	75 - 125	6	35		
Silver	96	100	75 - 125	7	35		
Copper	447	464	75 - 125	6	35	F	F
Zinc	484	692	75 - 125	35	35	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49116

Method: 6010B
Preparation: 3050B

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1419
Date Prepared: 08/26/2009 1134

Analysis Batch: 580-49216
Prep Batch: 580-49116
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0499 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	11	45.5	124	35	F
Barium	10	37.7	115	35	F
Cadmium	ND	ND	NC	35	
Chromium	4.2	124	187	35	F
Lead	5.1	27.1	137	35	F
Selenium	5.7	10.6	59	35	
Silver	ND	ND	NC	35	
Copper	8.4	56.0	148	35	F
Zinc	28	220	155	35	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49123

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 580-49123/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1636
Date Prepared: 08/26/2009 1215

Analysis Batch: 580-49217
Prep Batch: 580-49123
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		3.0
Barium	ND		0.50
Cadmium	ND		0.50
Chromium	ND		1.3
Lead	ND		1.5
Selenium	ND		5.0
Silver	ND		1.0
Copper	ND		1.0
Zinc	ND		2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-49123

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-49123/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1709
Date Prepared: 08/26/2009 1215

Analysis Batch: 580-49217
Prep Batch: 580-49123
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-49123/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1714
Date Prepared: 08/26/2009 1215

Analysis Batch: 580-49217
Prep Batch: 580-49123
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	93	93	80 - 120	0	35		
Barium	96	97	80 - 120	0	35		
Cadmium	91	92	80 - 120	1	35		
Chromium	96	96	80 - 120	0	35		
Lead	94	94	80 - 120	1	35		
Selenium	89	89	80 - 120	0	35		
Silver	91	91	80 - 120	0	35		
Copper	91	90	80 - 120	0	35		
Zinc	93	95	80 - 120	2	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49123

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 580-15035-16
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1657
Date Prepared: 08/26/2009 1215

Analysis Batch: 580-49217
Prep Batch: 580-49123

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0601 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-15035-16
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1701
Date Prepared: 08/26/2009 1215

Analysis Batch: 580-49217
Prep Batch: 580-49123

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0094 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	93	88	75 - 125	0	35		
Barium	100	82	75 - 125	10	35		
Cadmium	87	82	75 - 125	1	35		
Chromium	92	87	75 - 125	1	35		
Lead	56	31	75 - 125	7	35	F	F
Selenium	90	86	75 - 125	1	35		
Silver	90	89	75 - 125	3	35		
Copper	535	85	75 - 125	24	35	4	4
Zinc	46	83	75 - 125	5	35	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49123

Method: 6010B
Preparation: 3050B

Lab Sample ID: 580-15035-16
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1652
Date Prepared: 08/26/2009 1215

Analysis Batch: 580-49217
Prep Batch: 580-49123
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0330 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	4.6	ND	27	35	
Barium	110	124	16	35	
Cadmium	0.67	0.618	8	35	
Chromium	20	15.9	23	35	
Lead	180	134	27	35	
Selenium	8.5	ND	35	35	
Silver	ND	ND	NC	35	
Copper	460	412	10	35	
Zinc	420	326	25	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49221

Method: 6010B
Preparation: 7195

Lab Sample ID: MB 580-49221/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2149
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Hexavalent chromium	ND		0.26

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-49221

Method: 6010B
Preparation: 7195

LCS Lab Sample ID: LCS 580-49221/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2153
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-49221/19-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2156
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Hexavalent chromium	93	96	80 - 120	3	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49221

Method: 6010B
Preparation: 7195

MS Lab Sample ID: 580-15035-9
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2214
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0613 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-15035-9
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2218
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0613 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Hexavalent chromium	125	118	75 - 125	4	35		

Duplicate - Batch: 580-49221

Method: 6010B
Preparation: 7195

Lab Sample ID: 580-15035-9
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2207
Date Prepared: 08/27/2009 1025

Analysis Batch: 580-49300
Prep Batch: 580-49221
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0462 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Hexavalent chromium	8.2	11.7	35	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49237

Method: 6010B
Preparation: 7195

Lab Sample ID: MB 580-49237/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2330
Date Prepared: 08/27/2009 1244

Analysis Batch: 580-49306
Prep Batch: 580-49237
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Hexavalent chromium	ND		0.26

Lab Control Sample - Batch: 580-49237

Method: 6010B
Preparation: 7195

Lab Sample ID: LCS 580-49237/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2334
Date Prepared: 08/27/2009 1244

Analysis Batch: 580-49306
Prep Batch: 580-49237
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexavalent chromium	20.0	22.3	112	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49237

Method: 6010B
Preparation: 7195

MS Lab Sample ID: 580-15035-17
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2355
Date Prepared: 08/27/2009 1244

Analysis Batch: 580-49306
Prep Batch: 580-49237

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0297 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-15035-17
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2358
Date Prepared: 08/27/2009 1244

Analysis Batch: 580-49306
Prep Batch: 580-49237

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0297 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Hexavalent chromium	92	105	75 - 125	13	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49237

Method: 6010B
Preparation: 7195

Lab Sample ID: 580-15035-17
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/27/2009 2351
Date Prepared: 08/27/2009 1244

Analysis Batch: 580-49306
Prep Batch: 580-49237
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 5.0527 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Hexavalent chromium	ND	0.408	31	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-48965

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 580-48965/13-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2009 0945
Date Prepared: 08/24/2009 1333

Analysis Batch: 580-49069
Prep Batch: 580-48965
Units: mg/L

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-48965

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID: LCS 580-48965/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2009 0950
Date Prepared: 08/24/2009 1333

Analysis Batch: 580-49069
Prep Batch: 580-48965
Units: mg/L

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-48965/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2009 0954
Date Prepared: 08/24/2009 1333

Analysis Batch: 580-49069
Prep Batch: 580-48965
Units: mg/L

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	105	100	75 - 125	5	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49098

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-49098/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1207
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-49098

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-49098/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1212
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-49098/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1216
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	102	98	75 - 125	4	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49098

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1234
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5714 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1238
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5223 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	95	104	75 - 125	18	35		

Duplicate - Batch: 580-49098

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1230
Date Prepared: 08/26/2009 0917

Analysis Batch: 580-49213
Prep Batch: 580-49098
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5660 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	ND	ND	32	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49113

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-49113/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1343
Date Prepared: 08/26/2009 1100

Analysis Batch: 580-49213
Prep Batch: 580-49113
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-49113

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-49113/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1347
Date Prepared: 08/26/2009 1100

Analysis Batch: 580-49213
Prep Batch: 580-49113
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-49113/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 1351
Date Prepared: 08/26/2009 1100

Analysis Batch: 580-49213
Prep Batch: 580-49113
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	104	104	75 - 125	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49113

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	580-15035-16	Analysis Batch: 580-49213	Instrument ID: SEA029
Client Matrix:	Solid	Prep Batch: 580-49113	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.5645 g
Date Analyzed:	08/26/2009 1409		Final Weight/Volume: 50 mL
Date Prepared:	08/26/2009 1100		

MSD Lab Sample ID:	580-15035-16	Analysis Batch: 580-49213	Instrument ID: SEA029
Client Matrix:	Solid	Prep Batch: 580-49113	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.5244 g
Date Analyzed:	08/26/2009 1413		Final Weight/Volume: 50 mL
Date Prepared:	08/26/2009 1100		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	87	87	75 - 125	5	35		

Duplicate - Batch: 580-49113

Method: 7471A
Preparation: 7471A

Lab Sample ID:	580-15035-16	Analysis Batch: 580-49213	Instrument ID: SEA029
Client Matrix:	Solid	Prep Batch: 580-49113	Lab File ID: N/A
Dilution:	1.0	Units: mg/Kg	Initial Weight/Volume: 0.5472 g
Date Analyzed:	08/26/2009 1400		Final Weight/Volume: 50 mL
Date Prepared:	08/26/2009 1100		

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.095	0.0846	12	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49338

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 580-49338/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2009 1427
Date Prepared: N/A

Analysis Batch: 580-49338
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Fluoride	ND		0.10
Chloride	ND		0.90

Lab Control Sample - Batch: 580-49338

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 580-49338/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2009 1408
Date Prepared: N/A

Analysis Batch: 580-49338
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride	2.00	2.16	108	90 - 110	
Chloride	10.0	10.8	108	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike - Batch: 580-49338

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 08/27/2009 1522
Date Prepared: N/A

Analysis Batch: 580-49338
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	4.3	40.0	36.2	80	80 - 120	

Matrix Spike - Batch: 580-49338

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 1000
Date Analyzed: 08/28/2009 0624
Date Prepared: N/A

Analysis Batch: 580-49338
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride	480	16.0	760	1750	80 - 120	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49338

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2009 1503
Date Prepared: N/A

Analysis Batch: 580-49338
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	4.3	4.30	1	20	

Duplicate - Batch: 580-49338

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 1000
Date Analyzed: 08/28/2009 0606
Date Prepared: N/A

Analysis Batch: 580-49338
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Fluoride	480	700	37	20	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49343

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 580-49343/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2009 1427
Date Prepared: N/A

Analysis Batch: 580-49343
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Nitrate as N	ND		0.30

Lab Control Sample - Batch: 580-49343

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 580-49343/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2009 1408
Date Prepared: N/A

Analysis Batch: 580-49343
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1.00	1.07	107	90 - 110	

Matrix Spike - Batch: 580-49343

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 1000
Date Analyzed: 08/28/2009 0624
Date Prepared: N/A

Analysis Batch: 580-49343
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	400	4.00	420	500	80 - 120	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49343

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 1000
Date Analyzed: 08/28/2009 0606
Date Prepared: N/A

Analysis Batch: 580-49343
Prep Batch: N/A
Units: mg/L

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate as N	400	420	5	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49350

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 580-49061/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 2139
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49350
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Fluoride-Soluble	ND		0.60
Chloride-Soluble	ND		3.3

Lab Control Sample - Batch: 580-49350

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 580-49061/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 2158
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49350
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride-Soluble	160	161	101	90 - 110	
Chloride-Soluble	400	395	99	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Matrix Spike - Batch: 580-49350

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 2253
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49350
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	ND	395	336	84	80 - 120	

Matrix Spike - Batch: 580-49350

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 08/27/2009 2016
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49350
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride-Soluble	94	158	126	20	80 - 120	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49350

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 2235
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49350
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride-Soluble	ND	4.45	18	20	

Duplicate - Batch: 580-49350

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 08/27/2009 1958
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49350
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Fluoride-Soluble	94	54.6	53	20	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49352

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 580-49061/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 2139
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49352
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Nitrate as N-Soluble	ND		0.10

Lab Control Sample - Batch: 580-49352

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 580-49061/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/26/2009 2158
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49352
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	40.0	40.0	100	90 - 110	

Matrix Spike - Batch: 580-49352

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 08/27/2009 2016
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49352
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	68	39.5	271	514	80 - 120	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49352

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-1
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 08/27/2009 1958
Date Prepared: N/A
Date Leached: 08/25/2009 1520

Analysis Batch: 580-49352
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49061

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate as N-Soluble	68	167	84	20	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49353

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 580-49312/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1314
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49353
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Fluoride-Soluble	ND		0.60
Chloride-Soluble	ND		3.3

Lab Control Sample - Batch: 580-49353

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 580-49312/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1333
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49353
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride-Soluble	160	157	98	90 - 110	
Chloride-Soluble	400	389	97	90 - 110	

Matrix Spike - Batch: 580-49353

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-26
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1515
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49353
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride-Soluble	68	181	183	63	80 - 120	F
Chloride-Soluble	6.8	453	439	96	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49353

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-26
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1456
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49353
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Fluoride-Soluble	68	72.4	6	20	
Chloride-Soluble	6.8	6.46	5	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Method Blank - Batch: 580-49354

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 580-49312/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1314
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49354
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Nitrate as N-Soluble	ND		0.10

Lab Control Sample - Batch: 580-49354

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 580-49312/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1333
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49354
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	40.0	39.5	99	90 - 110	

Matrix Spike - Batch: 580-49354

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-26
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1515
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49354
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	3.6	45.3	47.4	97	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49354

Method: 300.0
Preparation: N/A

Lab Sample ID: 580-15035-26
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/28/2009 1456
Date Prepared: N/A
Date Leached: 08/28/2009 1132

Analysis Batch: 580-49354
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 580-49312

Instrument ID: IS 2000 Ion Chromatograpl
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate as N-Soluble	3.6	3.74	3	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49355

Method: 9040B
Preparation: N/A

Lab Sample ID: 580-15035-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/28/2009 1834
Date Prepared: N/A

Analysis Batch: 580-49355
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	3.33	3.330	0		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-49076

Method: 9045C
Preparation: N/A

Lab Sample ID: 580-15035-19
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/25/2009 1713
Date Prepared: N/A

Analysis Batch: 580-49076
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	8.11	8.150	0		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Duplicate - Batch: 580-48915

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-15035-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/23/2009 1037
Date Prepared: N/A

Analysis Batch: 580-48915
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	93	97		20	
Percent Moisture	6.5	3.0		20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15035-1

Lab Section	Qualifier	Description
Metals		
	F	Duplicate RPD exceeds the control limit
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	*	RPD of the LCS and LCSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits
General Chemistry		
	F	Duplicate RPD exceeds the control limit
	HF	Field parameter with a holding time of 15 minutes
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	H	Sample was prepped or analyzed beyond the specified holding time

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Fax 253-922-5047
www.testamericainc.com

Chain of Custody Record

15035

Client: Clean Harbors Environmental	Project Manager: Shawn Estrada	Date: 8/19/09	Chain of Custody Number: 5005
Address: 19320 Des Moines Memorial dr Bldg D Suite 400	Telephone Number (Area Code)/Fax Number: ~~206 429 8265~~ estrada.shawn@cleanharbors.com	Lab Number:	Page 1 of 4
City: Seatac; State: WA; Zip Code: 98148	Site Contact: 206 290 0632	Lab Contact:	
Project Name and Location (State): ACW Seattle WA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 67243573			

Analysis (Attach list if more space is needed)

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Concrete Chips	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Total Metals 6010 7470A	Total Fluoride	Total Chloride	Total Nitrate	PH	Hex Chrome	TCLP	Special Instructions/ Conditions of Receipt
TPBC-1	8/19/09	1715					X	X						X	X	X	X	X			1
TPFC-1 Dup		1517					X	X						X	X	X	X	X			2
TPFC-1		1515					X	X						X	X	X	X	X			3
TPWC-1		1520					X	X						X	X	X	X	X			4

HC 8/20

metals: As, Cd, Cr, Ba, Pb, Se, Ag, Cu, Zn plus Hg Hex Chrome

Cooler: ☐ Yes ☐ No Cooler Temp:____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Richard Rodriguez (CHES)	8/19/09	1930	1. Received By: Shawn Estrada	19:30	
2. Relinquished By: Shawn Estrada	8/20/09	0920	2. Received By: Cathy Gamble	8/20/09	9:20
3. Relinquished By:			3. Received By:		

Comments: check with Shawn Estrada for final ~~and~~ analysis needs for each sample

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

Lg Blue/white TB: 6.0 Temp: 4.2° w/o - Ice

TAL-8274-580 (0508)

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

CHAIN of CUSTODY

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STANDARD ☒ RUSH ☐

CLIENT: Clean Harbors Environmental

ADDRESS: 19320 Des Moines Memorial drive Bldg D Suite 400 Seatac WA, 98148

ADDRESS CHANGE ☐

PROJECT: ACW Tank Closure Seattle

CONTACT: Shawn Estrada

PHONE: 206 290 0632 FAX:

Prefer FAX ☐

e-MAIL: estrada.shawn@cleanharbors.com e-MAIL ☒

PURCHASE ORDER #: G72435931

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS: NWTPH-HCID	BTEX	BTEX/NWTPH-G	NWTPH-G	NWTPH-Dx	1664 SGT-HEM	1664 HEM	ORGANICS: 8260/524 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	METALS: TOTAL METALS RCRA8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)	OTHER: pH 9040/9045	TX/TOX 9076	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY)	Total Fluoride	Total Chloride	Total Nitrates		
TIR-1 Dup	8/19/09	1447	L	2														X			X						X	X	X	5	
TER-1		1425	L	2														X			X						X	X	X	6	
TPR-1		1455	L	2														X			X						X	X	X	7	
TIR-1		1445	L	2														X			X						X	X	X	8	

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SPECIAL INSTRUCTIONS/COMMENTS:
Total Metals (6010/7470A Methods)
-Contact Shawn Estrada for Final Analysis needs for Each Sample

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	[signature]	Richard Rodriguez	CHES	8/19/09	1930
RECEIVED BY	[signature]	Shawn Estrada	CHES	8/19/09	1930
RELINQUISHED BY	[signature]	Shawn Estrada	CHEC	8/20/09	0920
RECEIVED BY	[signature]	8/20/09 Cathy Crawford	TA Tac	8/20/09	9:20

RETURN SAMPLES ☐ DISPOSE SAMPLES ☐
(Shipping Fee Applies)

Payment Terms: Net 30 days. Past due accounts subject to 1½% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. *Spectra Analytical, Inc.*

M99CS000569M 01/06

AKC-0019165