From: Lottig, Justin
Sent: Monday, January 24, 2011 8:42 AM
To: 'michael.tsuji@doh.hawaii.gov'; stuart.yamada@doh.hawaii.gov
Cc: 'Tanimoto, Jamie'; Keener, Laura; Whelan, Joseph
Subject: RE: Stormwater Sampling Results from January 13

Mike/Stuart, attached are the final laboratory reports from the January 13, 2011 stormwater sampling event. Please let me know if you have any questions. Thanks.

Justin

From: Lottig, Justin
Sent: Friday, January 21, 2011 4:55 PM
To: michael.tsuji@doh.hawaii.gov
Cc: 'Tanimoto, Jamie'; Keener, Laura; Whelan, Joseph
Subject: Stormwater Sampling Results from January 13

Mike, as requested per our phone conversation, attached are the results of the stormwater samples collected on January 13. Please note that the sample labeled "Culvert" is our approved sampling location. Please let me know if you have any questions. Thanks.

<< File: Summary Table stormwater_1_14_2011.pdf >>

Justin H. Lottig
Environmental Protection Manager
Waste Management of Hawaii
92-460 Farrington Highway
Kapolei, HI 96707
808.668.2985

Waste Management is North America's largest recycler of household-generated recyclables, recycling enough newspaper, office paper and cardboard last year to save more than 41 million trees.

Waste Management recycles enough paper every year to save 41 million trees. Please recycle any printed emails.

Food Quality Lab

3375 Koapaka Street, G314
Honolulu, HI 96819
Phone: 808-839-9444, Fax: 808-839-9744

AECOM
1001 Bishop St., Suite 1600
Honolulu, HI, 96813
Attn:Tobias Koehler
Project Name: WGSL

LAB REPORT

Received: 01/13/2011 @ 8:35 PM
Completed: 01/19/2011 @ 7:45 PM
Project Number: 110113-2568-001
Temperature: °C

Sample ID: 110113-2568-001-01 | **Water Sample -1 Upcanyon** | **Sampled: 1/13/2011 @ 5:50 PM** | **Sampler: David Lin**

Analysis	Results	Units	MDL	Test Method	Analyzed		By
Total Coliform (MPN)-Water	500	MPN/100ml	2.0	SMWW21 9221B	01/13/2011	8:45 PM	IQ
E.coli (MPN) - Water	74	MPN/100ml	2.0	SMWW21 9221 E	01/13/2011	8:45 PM	IQ

Sample ID: 110113-2568-001-02 | **Water Sample -2 Culvert** | **Sampled: 1/13/2011 @ 7:15 PM** | **Sampler: David Lin**

Analysis	Results	Units	MDL	Test Method	Analyzed		By
Total Coliform (MPN)-Water	≥1,600	MPN/100ml	2.0	SMWW21 9221B	01/13/2011	8:45 PM	IQ
E.coli (MPN) - Water	<2.0	MPN/100ml	2.0	SMWW21 9221 E	01/13/2011	8:45 PM	IQ

Sample ID: 110113-2568-001-03 | **Water Sample -3 Ocean Outlet** | **Sampled: 1/13/2011 @ 6:15 PM** | **Sampler: David Lin**

Analysis	Results	Units	MDL	Test Method	Analyzed		By
Total Coliform (MPN)-Water	≥1,600	MPN/100ml	2.0	SMWW21 9221B	01/13/2011	8:45 PM	IQ
E.coli (MPN) - Water	3.6	MPN/100ml	2.0	SMWW21 9221 E	01/13/2011	8:45 PM	IQ

Sample ID: 110113-2568-001-04 | **Water Sample -4 Ocean East** | **Sampled: 1/13/2011 @ 6:00 PM** | **Sampler: David Lin**

Analysis	Results	Units	MDL	Test Method	Analyzed		By
Total Coliform (MPN)-Water	≥1,600	MPN/100ml	2.0	SMWW21 9221B	01/13/2011	8:45 PM	IQ
E.coli (MPN) - Water	3.6	MPN/100ml	2.0	SMWW21 9221 E	01/13/2011	8:45 PM	IQ

Sample ID: 110113-2568-001-05 | **Water Sample -5 Ocean West** | **Sampled: 1/13/2011 @ 5:45 PM** | **Sampler: David Lin**

Analysis	Results	Units	MDL	Test Method	Analyzed		By
Total Coliform (MPN)-Water	170	MPN/100ml	2.0	SMWW21 9221B	01/13/2011	8:45 PM	IQ
E.coli (MPN) - Water	<2.0	MPN/100ml	2.0	SMWW21 9221 E	01/13/2011	8:45 PM	IQ

Approved By: Imelda Q. Amarto
Friday, January 21, 2011

2_,83

FQ Labs.

3375 Koapaka St., G314
Honolulu, HI 96819
808-839-9444 Fax 808-839-9744

CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 1/13/11 PAGE 1 OF 1

CUSTOMER NO. _____ LAB NO. _____

CLIENT NAME: AECOM Technical Services, Inc.

ADDRESS: 1001 Bishop St. Ste 1600

PROJECT NAME: WGSL SW PROJECT NO: P.O. NO:

PROJECT MANAGER: Tobias Koehler PHONE NO: 8083565306 FAX NO:

SAMPLER NAME: David Lin (Printed) (Signature)

TAT (Analytical Turn Around Time) 0 = Same day; 1 = 24 Hour; 2 = 48 Hour; (Etc.) N = NORMAL

CONTAINER TYPES: B = Brass, G = Glass, P = Plastic, V = VOA Vial, O = Other:

ANALYSES REQUESTED:

AIRBILL NO: _____

COOLER TEMP: _____

PRESERVED: _____

REMARKS:

	SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX WATER	MATRIX OTHER	CONTAINER #	CONTAINER TYPE	GRAB/COMP	Bact-Tot Colliform	Bact-E. coli	~~Bact-HPC~~ PDL			SAMPLE CONDITION/ COMMENTS:
1	1	1/13/11	17:50	Upcanyon	X		1	P	G	X	X	X			
2	2	1/13/11	19:15	Culvert	X		1	P	G	X	X	X			
3	3	1/13/11	18:15	Ocean Outlet	X		1	P	G	X	X	X			
4	4	1/13/11	18:00	Ocean East	X		1	P	G	X	X	X			
5	5	1/13/11	17:45	Ocean West	X		1	P	G	X	X	X			
6															
7															
8															
9															
10															

Relinquished By: (Signature and Printed Name)	Received By: (Signature and Printed Name)	Date:	Time:
[signature]	Pete LaPlaca [signature] MELPHA	1/13/11	2035
	[signature]		

SPECIAL INSTRUCTIONS:

SAMPLE DISPOSITION:

1. Samples returned to client? YES NO
2. Samples will not be stored over 30 days, unless additional storage time is requested.
3. Storage time requested: _____ days

By _____ Date _____

LAB COPY

WWH 000477

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-11648-1

Job Description: 995|Waimanalo Gulch LF

For:
Waste Management
Waimanalo Gulch Landfill
92-460 Farrington Highway
Kapolei, HI 96707

Attention: Mr. Justin Lottig

Approved for release.
Stephanie Sanders
Project Mgmt. Assistant
1/21/2011 4:22 PM

Designee for
Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
01/21/2011

cc: Mr. John Fong
Mr. Tobias Koehler

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Waste Management

Project: 995|Waimanalo Gulch LF

Report Number: 280-11648-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 01/17/2011; the samples arrived in good condition and properly preserved. The temperatures of the coolers at receipt were 9.2C, 9.7C, 7.9C, 7.7C and 8.1C. The cooler temperatures were above the recommended receiving temperature of 6.0C. The client was notified and the lab proceeded with all requested analyses.

Holding Times

All holding times were met.

Method Blanks

Total Sodium Method 200.7, Sulfate Method 300.0A and Total Phosphorus Method 365.1 were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

The Method 625 LCS for Indeno(1,2,3-cd)pyrene was above control limits. Because this is a non-target compound, no correction action was performed.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 625 and Method 1664A HEM due to insufficient sample volume; however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

The percent recoveries and/or the relative percent difference of the MS/MSD performed on sample OCEAN OUTLET were outside control limits for Total Iron, Potassium, Magnesium and Sodium during Method 200.7 analysis because the sample concentrations were greater than four times the spike amounts.

The Matrix Spike and Matrix Spike Duplicate performed on sample OCEAN OUTLET exhibited recoveries outside control limits for Total Arsenic Method 200.7. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Total Arsenic and Selenium Method 200.7. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.

Metals

The Method 200.7 Continuing Calibration Verification (CCV) sample was above the control limits for Total Sodium. Because the data are

WMH 000480

considered biased high and Total Sodium was not detected above the reporting limit in the associated Method Blank sample, corrective action was deemed unnecessary.

General Chemistry

Due to the sample matrix, the initial volume used for Total Suspended Solids (TSS) Method 2540D for samples CULVERT, UPCANYON, OCEAN WEST, OCEAN EAST and OCEAN OUTLET deviated from the standard procedure. The reporting limit (RL) has been adjusted proportionately.

General Comments

The analyses for Biochemical Oxygen Demand (BOD) and Hexavalent Chromium were performed at TestAmerica's Honolulu facility.
TestAmerica Honolulu
99-193 Aiea Heights Drive
Suite 121
Aiea, HI 96701
Phone: 808.486.5227

WMH 000481

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11648-1	**CULVERT**					
Field pH		8.14			SU	Field Sampling
HEM		5.1		5.0	mg/L	1664A
Bromide		0.73		0.20	mg/L	300.0A
Chloride		95		1.3	mg/L	300.0A
Sulfate		45	B	5.0	mg/L	300.0A
Ammonia		0.11		0.10	mg/L	350.1
Nitrate Nitrite as N		2.9		0.10	mg/L	353.2
Phosphorus, Total		0.38	B	0.050	mg/L	365.1
Chemical Oxygen Demand		45		20	mg/L	410.4
Total Alkalinity		77		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		77		5.0	mg/L	SM 2320B
Total Suspended Solids		57		4.0	mg/L	SM 2540D
Nitrogen, Total		4.8		0.10	mg/L	Total Nitrogen
Total Recoverable						
Iron		8.6		0.10	mg/L	200.7 Rev 4.4
Lead		0.0034	J	0.0090	mg/L	200.7 Rev 4.4
Selenium		0.0078	J	0.015	mg/L	200.7 Rev 4.4
Zinc		0.017	J	0.020	mg/L	200.7 Rev 4.4
Potassium		7.0		3.0	mg/L	200.7 Rev 4.4
Calcium		24		0.20	mg/L	200.7 Rev 4.4
Magnesium		13		0.20	mg/L	200.7 Rev 4.4
Sodium		73	B	5.0	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11648-2	**UPCANYON**					
Field pH		8.46			SU	Field Sampling
HEM		3.7	J	5.0	mg/L	1664A
Bromide		0.16	J	0.20	mg/L	300.0A
Chloride		61		1.3	mg/L	300.0A
Sulfate		27	B	5.0	mg/L	300.0A
Ammonia		0.17		0.10	mg/L	350.1
Nitrate Nitrite as N		3.2		0.10	mg/L	353.2
Phosphorus, Total		0.58	B	0.050	mg/L	365.1
Chemical Oxygen Demand		29		20	mg/L	410.4
Total Alkalinity		31		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		31		5.0	mg/L	SM 2320B
Total Suspended Solids		190		4.0	mg/L	SM 2540D
Nitrogen, Total		4.1		0.10	mg/L	Total Nitrogen
Total Recoverable						
Iron		41		0.10	mg/L	200.7 Rev 4.4
Zinc		0.058		0.020	mg/L	200.7 Rev 4.4
Potassium		6.1		3.0	mg/L	200.7 Rev 4.4
Calcium		11		0.20	mg/L	200.7 Rev 4.4
Magnesium		11		0.20	mg/L	200.7 Rev 4.4
Sodium		51	B	5.0	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11648-3	**OCEAN WEST**					
Field pH		7.92			SU	Field Sampling
HEM		3.5	J	5.0	mg/L	1664A
Bromide		67		2.3	mg/L	300.0A
Chloride		19000		130	mg/L	300.0A
Sulfate		2700	B	23	mg/L	300.0A
Ammonia		0.053	J	0.10	mg/L	350.1
Nitrate Nitrite as N		0.13		0.10	mg/L	353.2
Phosphorus, Total		0.22	B	0.050	mg/L	365.1
Chemical Oxygen Demand		450		20	mg/L	410.4
Total Alkalinity		120		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		120		5.0	mg/L	SM 2320B
Total Suspended Solids		320		4.0	mg/L	SM 2540D
Nitrogen, Total		0.77		0.10	mg/L	Total Nitrogen
Total Recoverable						
Arsenic		0.0044	J	0.015	mg/L	200.7 Rev 4.4
Iron		18		0.10	mg/L	200.7 Rev 4.4
Lead		0.0058	J	0.0090	mg/L	200.7 Rev 4.4
Selenium		0.0064	J	0.015	mg/L	200.7 Rev 4.4
Zinc		0.047		0.020	mg/L	200.7 Rev 4.4
Potassium		470		3.0	mg/L	200.7 Rev 4.4
Calcium		370		0.20	mg/L	200.7 Rev 4.4
Magnesium		1100		0.20	mg/L	200.7 Rev 4.4
Sodium		10000	B	9.2	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11648-4	**OCEAN EAST**					
Mercury		0.000033	J	0.00020	mg/L	245.1
Field pH		8.06			SU	Field Sampling
HEM		4.0	J	5.0	mg/L	1664A
Bromide		67		2.3	mg/L	300.0A
Chloride		19000		130	mg/L	300.0A
Sulfate		2800	B	23	mg/L	300.0A
Ammonia		0.074	J	0.10	mg/L	350.1
Nitrate Nitrite as N		0.17		0.10	mg/L	353.2
Phosphorus, Total		0.34	B	0.050	mg/L	365.1
Chemical Oxygen Demand		410		20	mg/L	410.4
Total Alkalinity		120		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		120		5.0	mg/L	SM 2320B
Total Suspended Solids		340		4.0	mg/L	SM 2540D
Nitrogen, Total		0.41		0.10	mg/L	Total Nitrogen
Total Recoverable						
Iron		20		0.10	mg/L	200.7 Rev 4.4
Lead		0.0057	J	0.0090	mg/L	200.7 Rev 4.4
Zinc		0.049		0.020	mg/L	200.7 Rev 4.4
Potassium		480		3.0	mg/L	200.7 Rev 4.4
Calcium		370		0.20	mg/L	200.7 Rev 4.4
Magnesium		1100		0.20	mg/L	200.7 Rev 4.4
Sodium		11000	B	9.2	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11648-5	**OCEAN OUTLET**					
Field pH		8.13			SU	Field Sampling
HEM		4.5	J	5.0	mg/L	1664A
Bromide		32		1.1	mg/L	300.0A
Chloride		9600		51	mg/L	300.0A
Sulfate		1300	B	12	mg/L	300.0A
Ammonia		0.055	J	0.10	mg/L	350.1
Nitrate Nitrite as N		1.9		0.10	mg/L	353.2
Phosphorus, Total		0.33	B	0.050	mg/L	365.1
Chemical Oxygen Demand		160		20	mg/L	410.4
Total Alkalinity		110		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		110		5.0	mg/L	SM 2320B
Total Suspended Solids		320		4.0	mg/L	SM 2540D
Nitrogen, Total		2.8		0.10	mg/L	Total Nitrogen
Total Recoverable						
Iron		14		0.10	mg/L	200.7 Rev 4.4
Lead		0.0061	J	0.0090	mg/L	200.7 Rev 4.4
Zinc		0.037		0.020	mg/L	200.7 Rev 4.4
Potassium		200		3.0	mg/L	200.7 Rev 4.4
Calcium		190		0.20	mg/L	200.7 Rev 4.4
Magnesium		510		0.20	mg/L	200.7 Rev 4.4
Sodium		5000	B	5.0	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: Waste Management

Job Number: 280-11648-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	40CFR136A 625	
Liquid-Liquid Extraction	TAL DEN		40CFR136A 625
Metals (ICP)	TAL DEN	EPA 200.7 Rev 4.4	
Preparation, Total Recoverable Metals	TAL DEN		EPA 200.7
Mercury (CVAA)	TAL DEN	EPA 245.1	
Preparation, Mercury	TAL DEN		EPA 245.1
HEM and SGT-HEM	TAL DEN	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL DEN		1664A 1664A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0A	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Phosphorus, Total	TAL DEN	EPA 365.1	
Phosphorus, Total	TAL DEN		MCAWW 365.2/365.3/365
COD	TAL DEN	MCAWW 410.4	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Nitrogen, Total	TAL DEN	EPA Total Nitrogen	
Field Sampling	TAL DEN	EPA Field Sampling	
General Sub Contract Method	TAL HON	Subcontract	

Lab References:

TAL DEN = TestAmerica Denver

TAL HON = TestAmerica Honolulu

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

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

SM = "Standard Methods For The Examination Of Water And Wastewater",

WMH 000487

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-11648-1

Method	Analyst	Analyst ID
40CFR136A 625	Hoffman, Michael G	MGH
EPA 200.7 Rev 4.4	Bowen, Heidi E	HEB
EPA 245.1	Stoltz, Katie	KS
EPA Field Sampling	Field, Sampler	FS
1664A 1664A	Gheorghe, Philip A	PAG
MCAWW 300.0A	Phan, Thu L	TLP
MCAWW 350.1	Stosak, Lara E	LES
MCAWW 353.2	Stosak, Lara E	LES
EPA 365.1	Scott, Samantha J	SJS
MCAWW 410.4	Derosia, Marcia R	MRD
SM SM 2320B	Derosia, Marcia R	MRD
SM SM 2540D	Gheorghe, Philip A	PAG
EPA Total Nitrogen	Sullivan, Roxanne	RS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-11648-1	CULVERT	Water	01/13/2011 1915	01/17/2011 0830
280-11648-2	UPCANYON	Water	01/13/2011 1750	01/17/2011 0830
280-11648-3	OCEAN WEST	Water	01/13/2011 1745	01/17/2011 0830
280-11648-4	OCEAN EAST	Water	01/13/2011 1800	01/17/2011 0830
280-11648-5	OCEAN OUTLET	Water	01/13/2011 1815	01/17/2011 0830

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **CULVERT**

Lab Sample ID: 280-11648-1
Client Matrix: Water

Date Sampled: 01/13/2011 1915
Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865		Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365		Lab File ID:	D1503.D
Dilution:	1.0			Initial Weight/Volume:	953.6 mL
Date Analyzed:	01/21/2011 0049			Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831			Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0021	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00026	0.010
Pentachlorophenol	ND		0.021	0.060
Phenol	ND		0.0021	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		36 - 120
2-Fluorophenol	89		30 - 120
2,4,6-Tribromophenol	93		50 - 120
Nitrobenzene-d5	105		45 - 120
Phenol-d5	92		36 - 120
Terphenyl-d14	86		52 - 120

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **UPCANYON**

Lab Sample ID: 280-11648-2
Client Matrix: Water

Date Sampled: 01/13/2011 1750
Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865		Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365		Lab File ID:	D1504.D
Dilution:	1.0			Initial Weight/Volume:	1057.4 mL
Date Analyzed:	01/21/2011 0108			Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831			Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0019	0.010
Benzoic acid	ND		0.0095	0.050
p-Cresol	ND		0.00024	0.010
Pentachlorophenol	ND		0.019	0.060
Phenol	ND		0.0019	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	90		36 - 120
2-Fluorophenol	85		30 - 120
2,4,6-Tribromophenol	91		50 - 120
Nitrobenzene-d5	91		45 - 120
Phenol-d5	89		36 - 120
Terphenyl-d14	108		52 - 120

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **OCEAN WEST**

Lab Sample ID: 280-11648-3

Client Matrix: Water

Date Sampled: 01/13/2011 1745

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865		Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365		Lab File ID:	D1505.D
Dilution:	1.0			Initial Weight/Volume:	1011.1 mL
Date Analyzed:	01/21/2011 0128			Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831			Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0020	0.010
Benzoic acid	ND		0.0099	0.050
p-Cresol	ND		0.00025	0.010
Pentachlorophenol	ND		0.020	0.060
Phenol	ND		0.0020	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		36 - 120
2-Fluorophenol	88		30 - 120
2,4,6-Tribromophenol	84		50 - 120
Nitrobenzene-d5	92		45 - 120
Phenol-d5	90		36 - 120
Terphenyl-d14	93		52 - 120

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **OCEAN EAST**

Lab Sample ID: 280-11648-4

Client Matrix: Water

Date Sampled: 01/13/2011 1800

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865		Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365		Lab File ID:	D1506.D
Dilution:	1.0			Initial Weight/Volume:	975.1 mL
Date Analyzed:	01/21/2011 0147			Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831			Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0021	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00026	0.010
Pentachlorophenol	ND		0.021	0.060
Phenol	ND		0.0021	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	101		36 - 120
2-Fluorophenol	101		30 - 120
2,4,6-Tribromophenol	99		50 - 120
Nitrobenzene-d5	109		45 - 120
Phenol-d5	105		36 - 120
Terphenyl-d14	90		52 - 120

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **OCEAN OUTLET**

Lab Sample ID: 280-11648-5
Client Matrix: Water

Date Sampled: 01/13/2011 1815
Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865		Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365		Lab File ID:	D1507.D
Dilution:	1.0			Initial Weight/Volume:	859.8 mL
Date Analyzed:	01/21/2011 0207			Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831			Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0023	0.010
Benzoic acid	ND		0.012	0.050
p-Cresol	ND		0.00029	0.010
Pentachlorophenol	ND		0.023	0.060
Phenol	ND		0.0023	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		36 - 120
2-Fluorophenol	95		30 - 120
2,4,6-Tribromophenol	97		50 - 120
Nitrobenzene-d5	97		45 - 120
Phenol-d5	98		36 - 120
Terphenyl-d14	90		52 - 120

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **CULVERT**

Lab Sample ID: 280-11648-1
Client Matrix: Water

Date Sampled: 01/13/2011 1915
Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2014			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	8.6		0.022	0.10
Lead	0.0034	J	0.0026	0.0090
Selenium	0.0078	J	0.0049	0.015
Zinc	0.017	J	0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	7.0		0.24	3.0
Calcium	24		0.034	0.20
Magnesium	13		0.011	0.20
Sodium	73	B	0.092	5.0

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379		Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281		Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1608			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **UPCANYON**

Lab Sample ID: 280-11648-2
Client Matrix: Water

Date Sampled: 01/13/2011 1750
Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2017			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	41		0.022	0.10
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.058		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	6.1		0.24	3.0
Calcium	11		0.034	0.20
Magnesium	11		0.011	0.20
Sodium	51	B	0.092	5.0

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379		Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281		Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1611			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **OCEAN WEST**

Lab Sample ID: 280-11648-3
Client Matrix: Water

Date Sampled: 01/13/2011 1745
Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2019			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0044	J	0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	18		0.022	0.10
Lead	0.0058	J	0.0026	0.0090
Selenium	0.0064	J	0.0049	0.015
Zinc	0.047		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	470		0.24	3.0
Calcium	370		0.034	0.20
Magnesium	1100		0.011	0.20

Method:	200.7 Rev 4.4	Analysis Batch: 280-49660		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011911.asc
Dilution:	100			Initial Weight/Volume:	50 mL
Date Analyzed:	01/19/2011 1918			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	10000	B	9.2	9.2

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379		Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281		Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1613			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **OCEAN EAST**

Lab Sample ID: 280-11648-4
Client Matrix: Water

Date Sampled: 01/13/2011 1800
Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2022			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	20		0.022	0.10
Lead	0.0057	J	0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.049		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	480		0.24	3.0
Calcium	370		0.034	0.20
Magnesium	1100		0.011	0.20

Method:	200.7 Rev 4.4	Analysis Batch: 280-49660		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011911.asc
Dilution:	100			Initial Weight/Volume:	50 mL
Date Analyzed:	01/19/2011 1920			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	11000	B	9.2	9.2

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379		Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281		Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1620			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.000033	J	0.000027	0.00020

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: **OCEAN OUTLET**

Lab Sample ID: 280-11648-5
Client Matrix: Water

Date Sampled: 01/13/2011 1815
Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542		Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321		Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2026			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	14		0.022	0.10
Lead	0.0061	J	0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.037		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	200		0.24	3.0
Calcium	190		0.034	0.20
Magnesium	510		0.011	0.20
Sodium	5000	B	0.092	5.0

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379		Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281		Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1622			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

General Chemistry

Client Sample ID: **CULVERT**

Lab Sample ID: 280-11648-1

Client Matrix: Water

Date Sampled: 01/13/2011 1915

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	5.1		mg/L	1.3	5.0	1.0	1664A
Analysis Batch: 280-49297	Date Analyzed: 01/17/2011 1223						
Prep Batch: 280-49286	Date Prepared: 01/17/2011 1146						
Bromide	0.73		mg/L	0.11	0.20	1.0	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 1910						
Chloride	95		mg/L	1.3	1.3	5.0	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1105						
Sulfate	45	B	mg/L	0.23	5.0	1.0	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 1910						
Ammonia	0.11		mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-49479	Date Analyzed: 01/18/2011 1452						
Nitrate Nitrite as N	2.9		mg/L	0.019	0.10	1.0	353.2
Analysis Batch: 280-49480	Date Analyzed: 01/18/2011 1425						
Phosphorus, Total	0.38	B	mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-49895	Date Analyzed: 01/21/2011 0856						
Prep Batch: 280-49680	Date Prepared: 01/20/2011 0938						
Chemical Oxygen Demand	45		mg/L	4.1	20	1.0	410.4
Analysis Batch: 280-49821	Date Analyzed: 01/19/2011 1737						
Total Alkalinity	77		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2027						
Bicarbonate Alkalinity	77		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2027						
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2027						
Total Suspended Solids	57		mg/L	2.8	4.0	1.0	SM 2540D
Analysis Batch: 280-49449	Date Analyzed: 01/18/2011 1349						
Nitrogen, Total	4.8		mg/L	0.042	0.10	1.0	Total Nitrogen
Analysis Batch: 280-49935	Date Analyzed: 01/21/2011 1207						

General Chemistry

Client Sample ID: **UPCANYON**

Lab Sample ID: 280-11648-2

Client Matrix: Water

Date Sampled: 01/13/2011 1750

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	3.7	J	mg/L	1.3	5.0	1.0	1664A
Analysis Batch: 280-49297	Date Analyzed: 01/17/2011 1223						
Prep Batch: 280-49286	Date Prepared: 01/17/2011 1146						
Bromide	0.16	J	mg/L	0.11	0.20	1.0	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 1927						
Chloride	61		mg/L	1.3	1.3	5.0	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1122						
Sulfate	27	B	mg/L	0.23	5.0	1.0	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 1927						
Ammonia	0.17		mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-49479	Date Analyzed: 01/18/2011 1453						
Nitrate Nitrite as N	3.2		mg/L	0.019	0.10	1.0	353.2
Analysis Batch: 280-49480	Date Analyzed: 01/18/2011 1426						
Phosphorus, Total	0.58	B	mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-49895	Date Analyzed: 01/21/2011 0856						
Prep Batch: 280-49680	Date Prepared: 01/20/2011 0938						
Chemical Oxygen Demand	29		mg/L	4.1	20	1.0	410.4
Analysis Batch: 280-49489	Date Analyzed: 01/18/2011 1729						
Total Alkalinity	31		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2034						
Bicarbonate Alkalinity	31		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2034						
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2034						
Total Suspended Solids	190		mg/L	2.8	4.0	1.0	SM 2540D
Analysis Batch: 280-49449	Date Analyzed: 01/18/2011 1349						
Nitrogen, Total	4.1		mg/L	0.042	0.10	1.0	Total Nitrogen
Analysis Batch: 280-49935	Date Analyzed: 01/21/2011 1207						

General Chemistry

Client Sample ID: **OCEAN WEST**

Lab Sample ID: 280-11648-3

Client Matrix: Water

Date Sampled: 01/13/2011 1745

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	3.5	J	mg/L	1.3	5.0	1.0	1664A
Analysis Batch: 280-49297	Date Analyzed: 01/17/2011 1223						
Prep Batch: 280-49286	Date Prepared: 01/17/2011 1146						
Bromide	67		mg/L	2.3	2.3	20	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 1945						
Chloride	19000		mg/L	130	130	500	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1157						
Sulfate	2700	B	mg/L	23	23	100	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1140						
Ammonia	0.053	J	mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-49479	Date Analyzed: 01/18/2011 1447						
Nitrate Nitrite as N	0.13		mg/L	0.019	0.10	1.0	353.2
Analysis Batch: 280-49480	Date Analyzed: 01/18/2011 1428						
Phosphorus, Total	0.22	B	mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-49895	Date Analyzed: 01/21/2011 0856						
Prep Batch: 280-49680	Date Prepared: 01/20/2011 0938						
Chemical Oxygen Demand	450		mg/L	20	20	5.0	410.4
Analysis Batch: 280-49821	Date Analyzed: 01/19/2011 1737						
Total Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2058						
Bicarbonate Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2058						
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2058						
Total Suspended Solids	320		mg/L	3.7	4.0	1.0	SM 2540D
Analysis Batch: 280-49449	Date Analyzed: 01/18/2011 1349						
Nitrogen, Total	0.77		mg/L	0.042	0.10	1.0	Total Nitrogen
Analysis Batch: 280-49935	Date Analyzed: 01/21/2011 1207						

General Chemistry

Client Sample ID: **OCEAN EAST**

Lab Sample ID: 280-11648-4

Client Matrix: Water

Date Sampled: 01/13/2011 1800

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	4.0	J	mg/L	1.6	5.0	1.0	1664A
Analysis Batch: 280-49297	Date Analyzed: 01/17/2011 1223						
Prep Batch: 280-49286	Date Prepared: 01/17/2011 1146						
Bromide	67		mg/L	2.3	2.3	20	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 2002						
Chloride	19000		mg/L	130	130	500	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1231						
Sulfate	2800	B	mg/L	23	23	100	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1214						
Ammonia	0.074	J	mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-49479	Date Analyzed: 01/18/2011 1455						
Nitrate Nitrite as N	0.17		mg/L	0.019	0.10	1.0	353.2
Analysis Batch: 280-49480	Date Analyzed: 01/18/2011 1429						
Phosphorus, Total	0.34	B	mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-49895	Date Analyzed: 01/21/2011 0856						
Prep Batch: 280-49680	Date Prepared: 01/20/2011 0938						
Chemical Oxygen Demand	410		mg/L	20	20	5.0	410.4
Analysis Batch: 280-49821	Date Analyzed: 01/19/2011 1737						
Total Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2106						
Bicarbonate Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2106						
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2106						
Total Suspended Solids	340		mg/L	3.7	4.0	1.0	SM 2540D
Analysis Batch: 280-49449	Date Analyzed: 01/18/2011 1349						
Nitrogen, Total	0.41		mg/L	0.042	0.10	1.0	Total Nitrogen
Analysis Batch: 280-49935	Date Analyzed: 01/21/2011 1207						

General Chemistry

Client Sample ID: **OCEAN OUTLET**

Lab Sample ID: 280-11648-5
Client Matrix: Water

Date Sampled: 01/13/2011 1815
Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	4.5	J	mg/L	1.3	5.0	1.0	1664A
Analysis Batch: 280-49297	Date Analyzed: 01/17/2011 1223						
Prep Batch: 280-49286	Date Prepared: 01/17/2011 1146						
Bromide	32		mg/L	1.1	1.1	10	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/17/2011 2019						
Chloride	9600		mg/L	51	51	200	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1306						
Sulfate	1300	B	mg/L	12	12	50	300.0A
Analysis Batch: 280-49632	Date Analyzed: 01/18/2011 1249						
Ammonia	0.055	J	mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-49479	Date Analyzed: 01/18/2011 1505						
Nitrate Nitrite as N	1.9		mg/L	0.019	0.10	1.0	353.2
Analysis Batch: 280-49480	Date Analyzed: 01/18/2011 1431						
Phosphorus, Total	0.33	B	mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-49895	Date Analyzed: 01/21/2011 0856						
Prep Batch: 280-49680	Date Prepared: 01/20/2011 0938						
Chemical Oxygen Demand	160		mg/L	8.1	20	2.0	410.4
Analysis Batch: 280-49489	Date Analyzed: 01/18/2011 1729						
Total Alkalinity	110		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2114						
Bicarbonate Alkalinity	110		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2114						
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-49444	Date Analyzed: 01/17/2011 2114						
Total Suspended Solids	320		mg/L	3.7	4.0	1.0	SM 2540D
Analysis Batch: 280-49449	Date Analyzed: 01/18/2011 1349						
Nitrogen, Total	2.8		mg/L	0.042	0.10	1.0	Total Nitrogen
Analysis Batch: 280-49935	Date Analyzed: 01/21/2011 1207						

Field Service / Mobile Lab

Client Sample ID: **CULVERT**

Lab Sample ID: 280-11648-1
Client Matrix: Water

Date Sampled: 01/13/2011 1915
Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.14		SU	1.0	Field Sampling	280-49270	01/13/2011 1915

Field Service / Mobile Lab

Client Sample ID: **UPCANYON**

Lab Sample ID: 280-11648-2
Client Matrix: Water

Date Sampled: 01/13/2011 1750
Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch / Date Prepared	Date Analyzed
Field pH	8.46		SU	1.0	Field Sampling	280-49270	01/13/2011 1750

Field Service / Mobile Lab

Client Sample ID: **OCEAN WEST**

Lab Sample ID: 280-11648-3

Client Matrix: Water

Date Sampled: 01/13/2011 1745

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.92		SU	1.0	Field Sampling	280-49270	01/13/2011 1745

Field Service / Mobile Lab

Client Sample ID: **OCEAN EAST**

Lab Sample ID: 280-11648-4
Client Matrix: Water

Date Sampled: 01/13/2011 1800
Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.06		SU	1.0	Field Sampling	280-49270	01/13/2011 1800

Field Service / Mobile Lab

Client Sample ID: **OCEAN OUTLET**

Lab Sample ID: 280-11648-5
Client Matrix: Water

Date Sampled: 01/13/2011 1815
Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.13		SU	1.0	Field Sampling	280-49270	01/13/2011 1815

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-11648-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	Recovery or RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	^	Instrument related QC 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.
	F	MS/MSD Recovery or RPD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-49365					
LCS 280-49365/2-A	Lab Control Sample	T	Water	625	
LCSD 280-49365/3-A	Lab Control Sample Duplicate	T	Water	625	
MB 280-49365/1-A	Method Blank	T	Water	625	
280-11648-1	CULVERT	T	Water	625	
280-11648-2	UPCANYON	T	Water	625	
280-11648-3	OCEAN WEST	T	Water	625	
280-11648-4	OCEAN EAST	T	Water	625	
280-11648-5	OCEAN OUTLET	T	Water	625	
Analysis Batch:280-49865					
LCS 280-49365/2-A	Lab Control Sample	T	Water	625	280-49365
LCSD 280-49365/3-A	Lab Control Sample Duplicate	T	Water	625	280-49365
MB 280-49365/1-A	Method Blank	T	Water	625	280-49365
280-11648-1	CULVERT	T	Water	625	280-49365
280-11648-2	UPCANYON	T	Water	625	280-49365
280-11648-3	OCEAN WEST	T	Water	625	280-49365
280-11648-4	OCEAN EAST	T	Water	625	280-49365
280-11648-5	OCEAN OUTLET	T	Water	625	280-49365

Report Basis
T = Total

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-49281					
LCS 280-49281/2-A	Lab Control Sample	T	Water	245.1	
MB 280-49281/1-A	Method Blank	T	Water	245.1	
280-11648-1	CULVERT	T	Water	245.1	
280-11648-2	UPCANYON	T	Water	245.1	
280-11648-3	OCEAN WEST	T	Water	245.1	
280-11648-3MS	Matrix Spike	T	Water	245.1	
280-11648-3MSD	Matrix Spike Duplicate	T	Water	245.1	
280-11648-4	OCEAN EAST	T	Water	245.1	
280-11648-5	OCEAN OUTLET	T	Water	245.1	
Prep Batch: 280-49321					
LCS 280-49321/2-A	Lab Control Sample	R	Water	200.7	
MB 280-49321/1-A	Method Blank	R	Water	200.7	
280-11644-C-7-B MS	Matrix Spike	R	Water	200.7	
280-11644-C-7-C MSD	Matrix Spike Duplicate	R	Water	200.7	
280-11648-1	CULVERT	R	Water	200.7	
280-11648-2	UPCANYON	R	Water	200.7	
280-11648-3	OCEAN WEST	R	Water	200.7	
280-11648-4	OCEAN EAST	R	Water	200.7	
280-11648-5	OCEAN OUTLET	R	Water	200.7	
280-11648-5MS	Matrix Spike	R	Water	200.7	
280-11648-5MSD	Matrix Spike Duplicate	R	Water	200.7	
Analysis Batch:280-49379					
LCS 280-49281/2-A	Lab Control Sample	T	Water	245.1	280-49281
MB 280-49281/1-A	Method Blank	T	Water	245.1	280-49281
280-11648-1	CULVERT	T	Water	245.1	280-49281
280-11648-2	UPCANYON	T	Water	245.1	280-49281
280-11648-3	OCEAN WEST	T	Water	245.1	280-49281
280-11648-3MS	Matrix Spike	T	Water	245.1	280-49281
280-11648-3MSD	Matrix Spike Duplicate	T	Water	245.1	280-49281
280-11648-4	OCEAN EAST	T	Water	245.1	280-49281
280-11648-5	OCEAN OUTLET	T	Water	245.1	280-49281

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-49542					
LCS 280-49321/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-49321
MB 280-49321/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-49321
280-11644-C-7-B MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-49321
280-11644-C-7-C MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-49321
280-11648-1	CULVERT	R	Water	200.7 Rev 4.4	280-49321
280-11648-2	UPCANYON	R	Water	200.7 Rev 4.4	280-49321
280-11648-3	OCEAN WEST	R	Water	200.7 Rev 4.4	280-49321
280-11648-4	OCEAN EAST	R	Water	200.7 Rev 4.4	280-49321
280-11648-5	OCEAN OUTLET	R	Water	200.7 Rev 4.4	280-49321
280-11648-5MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-49321
280-11648-5MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-49321
Analysis Batch:280-49660					
280-11648-3	OCEAN WEST	R	Water	200.7 Rev 4.4	280-49321
280-11648-4	OCEAN EAST	R	Water	200.7 Rev 4.4	280-49321

Report Basis
R = Total Recoverable
T = Total

Field Service / Mobile Lab				
Analysis Batch:280-49270				
280-11648-1	CULVERT	T	Water	Field Sampling
280-11648-2	UPCANYON	T	Water	Field Sampling
280-11648-3	OCEAN WEST	T	Water	Field Sampling
280-11648-4	OCEAN EAST	T	Water	Field Sampling
280-11648-5	OCEAN OUTLET	T	Water	Field Sampling

Report Basis
T = Total

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-49286					
LCS 280-49286/2-A	Lab Control Sample	T	Water	1664A	
LCSD 280-49286/3-A	Lab Control Sample Duplicate	T	Water	1664A	
MB 280-49286/1-A	Method Blank	T	Water	1664A	
280-11648-1	CULVERT	T	Water	1664A	
280-11648-2	UPCANYON	T	Water	1664A	
280-11648-3	OCEAN WEST	T	Water	1664A	
280-11648-4	OCEAN EAST	T	Water	1664A	
280-11648-5	OCEAN OUTLET	T	Water	1664A	
Analysis Batch:280-49297					
LCS 280-49286/2-A	Lab Control Sample	T	Water	1664A	280-49286
LCSD 280-49286/3-A	Lab Control Sample Duplicate	T	Water	1664A	280-49286
MB 280-49286/1-A	Method Blank	T	Water	1664A	280-49286
280-11648-1	CULVERT	T	Water	1664A	280-49286
280-11648-2	UPCANYON	T	Water	1664A	280-49286
280-11648-3	OCEAN WEST	T	Water	1664A	280-49286
280-11648-4	OCEAN EAST	T	Water	1664A	280-49286
280-11648-5	OCEAN OUTLET	T	Water	1664A	280-49286
Analysis Batch:280-49444					
LCS 280-49444/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-49444/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-49444/6	Method Blank	T	Water	SM 2320B	
280-11644-A-1 DU	Duplicate	T	Water	SM 2320B	
280-11648-1	CULVERT	T	Water	SM 2320B	
280-11648-2	UPCANYON	T	Water	SM 2320B	
280-11648-3	OCEAN WEST	T	Water	SM 2320B	
280-11648-4	OCEAN EAST	T	Water	SM 2320B	
280-11648-5	OCEAN OUTLET	T	Water	SM 2320B	
Analysis Batch:280-49449					
LCS 280-49449/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-49449/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-49449/1	Method Blank	T	Water	SM 2540D	
280-11616-C-1 DU	Duplicate	T	Water	SM 2540D	
280-11648-1	CULVERT	T	Water	SM 2540D	
280-11648-2	UPCANYON	T	Water	SM 2540D	
280-11648-3	OCEAN WEST	T	Water	SM 2540D	
280-11648-4	OCEAN EAST	T	Water	SM 2540D	
280-11648-5	OCEAN OUTLET	T	Water	SM 2540D	

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-49479					
LCS 280-49479/69	Lab Control Sample	T	Water	350.1	
LCSD 280-49479/70	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-49479/68	Method Blank	T	Water	350.1	
280-11648-1	CULVERT	T	Water	350.1	
280-11648-2	UPCANYON	T	Water	350.1	
280-11648-3	OCEAN WEST	T	Water	350.1	
280-11648-3MS	Matrix Spike	T	Water	350.1	
280-11648-3MSD	Matrix Spike Duplicate	T	Water	350.1	
280-11648-4	OCEAN EAST	T	Water	350.1	
280-11648-5	OCEAN OUTLET	T	Water	350.1	
Analysis Batch:280-49480					
LCS 280-49480/25	Lab Control Sample	T	Water	353.2	
LCSD 280-49480/26	Lab Control Sample Duplicate	T	Water	353.2	
MB 280-49480/24	Method Blank	T	Water	353.2	
280-11561-E-7 MS	Matrix Spike	T	Water	353.2	
280-11561-E-7 MSD	Matrix Spike Duplicate	T	Water	353.2	
280-11648-1	CULVERT	T	Water	353.2	
280-11648-2	UPCANYON	T	Water	353.2	
280-11648-3	OCEAN WEST	T	Water	353.2	
280-11648-4	OCEAN EAST	T	Water	353.2	
280-11648-5	OCEAN OUTLET	T	Water	353.2	
Analysis Batch:280-49489					
LCS 280-49489/3	Lab Control Sample	T	Water	410.4	
LCSD 280-49489/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-49489/5	Method Blank	T	Water	410.4	
280-11648-2	UPCANYON	T	Water	410.4	
280-11648-2MS	Matrix Spike	T	Water	410.4	
280-11648-2MSD	Matrix Spike Duplicate	T	Water	410.4	
280-11648-5	OCEAN OUTLET	T	Water	410.4	
Analysis Batch:280-49632					
LCS 280-49632/4	Lab Control Sample	T	Water	300.0A	
LCSD 280-49632/5	Lab Control Sample Duplicate	T	Water	300.0A	
MB 280-49632/6	Method Blank	T	Water	300.0A	
280-11561-A-5 DU	Duplicate	T	Water	300.0A	
280-11561-A-5 MS	Matrix Spike	T	Water	300.0A	
280-11561-A-5 MSD	Matrix Spike Duplicate	T	Water	300.0A	
280-11648-1	CULVERT	T	Water	300.0A	
280-11648-2	UPCANYON	T	Water	300.0A	
280-11648-3	OCEAN WEST	T	Water	300.0A	
280-11648-4	OCEAN EAST	T	Water	300.0A	
280-11648-5	OCEAN OUTLET	T	Water	300.0A	

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-49680					
LCS 280-49680/1-A	Lab Control Sample	T	Water	365.2/365.3/365	
LCSD 280-49680/2-A	Lab Control Sample Duplicate	T	Water	365.2/365.3/365	
MB 280-49680/3-A	Method Blank	T	Water	365.2/365.3/365	
280-11648-1	CULVERT	T	Water	365.2/365.3/365	
280-11648-2	UPCANYON	T	Water	365.2/365.3/365	
280-11648-3	OCEAN WEST	T	Water	365.2/365.3/365	
280-11648-4	OCEAN EAST	T	Water	365.2/365.3/365	
280-11648-5	OCEAN OUTLET	T	Water	365.2/365.3/365	
280-11648-5MS	Matrix Spike	T	Water	365.2/365.3/365	
280-11648-5MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:280-49821					
LCS 280-49821/3	Lab Control Sample	T	Water	410.4	
LCSD 280-49821/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-49821/5	Method Blank	T	Water	410.4	
280-11648-1	CULVERT	T	Water	410.4	
280-11648-1MS	Matrix Spike	T	Water	410.4	
280-11648-1MSD	Matrix Spike Duplicate	T	Water	410.4	
280-11648-3	OCEAN WEST	T	Water	410.4	
280-11648-4	OCEAN EAST	T	Water	410.4	
Analysis Batch:280-49895					
LCS 280-49680/1-A	Lab Control Sample	T	Water	365.1	280-49680
LCSD 280-49680/2-A	Lab Control Sample Duplicate	T	Water	365.1	280-49680
MB 280-49680/3-A	Method Blank	T	Water	365.1	280-49680
280-11648-1	CULVERT	T	Water	365.1	280-49680
280-11648-2	UPCANYON	T	Water	365.1	280-49680
280-11648-3	OCEAN WEST	T	Water	365.1	280-49680
280-11648-4	OCEAN EAST	T	Water	365.1	280-49680
280-11648-5	OCEAN OUTLET	T	Water	365.1	280-49680
280-11648-5MS	Matrix Spike	T	Water	365.1	280-49680
280-11648-5MSD	Matrix Spike Duplicate	T	Water	365.1	280-49680
Analysis Batch:280-49935					
MB 280-49935/1	Method Blank	T	Water	Total Nitrogen	
280-11648-1	CULVERT	T	Water	Total Nitrogen	
280-11648-2	UPCANYON	T	Water	Total Nitrogen	
280-11648-3	OCEAN WEST	T	Water	Total Nitrogen	
280-11648-4	OCEAN EAST	T	Water	Total Nitrogen	
280-11648-5	OCEAN OUTLET	T	Water	Total Nitrogen	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-11648-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	TBP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
280-11648-1	CULVERT	94	89	93	105	92	86
280-11648-2	UPCANYON	90	85	91	91	89	108
280-11648-3	OCEAN WEST	83	88	84	92	90	93
280-11648-4	OCEAN EAST	101	101	99	109	105	90
280-11648-5	OCEAN OUTLET	94	95	97	97	98	90
MB 280-49365/1-A		67	92	84	94	91	111
LCS 280-49365/2-A		94	97	100	93	102	110
LCSD 280-49365/3-A		95	84	110	98	98	117

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	36-120
2FP = 2-Fluorophenol	30-120
TBP = 2,4,6-Tribromophenol	50-120
NBZ = Nitrobenzene-d5	45-120
PHL = Phenol-d5	36-120
TPH = Terphenyl-d14	52-120

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49365

Method: 625
Preparation: 625

Lab Sample ID:	MB 280-49365/1-A	Analysis Batch:	280-49865	Instrument ID:	MSS_D
Client Matrix:	Water	Prep Batch:	280-49365	Lab File ID:	D1502.D
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	01/21/2011 0030			Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831			Injection Volume:	0.5 uL

Analyte	Result	Qual	MDL	RL
Alpha-Terpineol	ND		0.0020	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00025	0.010
Pentachlorophenol	ND		0.020	0.060
Phenol	ND		0.0020	0.010

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	67	36 - 120
2-Fluorophenol	92	30 - 120
2,4,6-Tribromophenol	84	50 - 120
Nitrobenzene-d5	94	45 - 120
Phenol-d5	91	36 - 120
Terphenyl-d14	111	52 - 120

Client: Waste Management

Job Number: 280-11648-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49365

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-49365/2-A	Analysis Batch: 280-49865	Instrument ID: MSS_D
Client Matrix:	Water	Prep Batch: 280-49365	Lab File ID: D1475.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/20/2011 1546		Final Weight/Volume: 1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume: 0.5 uL

LCSD Lab Sample ID:	LCSD 280-49365/3-A	Analysis Batch: 280-49865	Instrument ID: MSS_D
Client Matrix:	Water	Prep Batch: 280-49365	Lab File ID: D1476.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/20/2011 1605		Final Weight/Volume: 1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume: 0.5 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	96	98	47 - 120	3	30		
Acenaphthylene	98	102	33 - 120	4	30		
Anthracene	106	100	52 - 120	6	30		
Benzidine	97	109	10 - 218	12	50		
Benzo[a]anthracene	102	108	54 - 120	5	30		
Benzo[b]fluoranthene	99	107	51 - 120	8	90		
Benzo[k]fluoranthene	85	94	49 - 120	10	50		
Benzo[a]pyrene	84	89	39 - 120	6	73		
Bis(2-chloroethoxy)methane	86	95	50 - 120	9	30		
Bis(2-chloroethyl)ether	91	88	35 - 120	4	30		
Bis(2-ethylhexyl) phthalate	102	97	56 - 120	4	30		
4-Bromophenyl phenyl ether	115	101	53 - 120	14	34		
Butyl benzyl phthalate	104	111	53 - 120	7	30		
4-Chloro-3-methylphenol	105	93	57 - 120	12	30		
2-Chloronaphthalene	94	97	60 - 118	3	30		
2-Chlorophenol	102	95	34 - 120	7	30		
4-Chlorophenyl phenyl ether	98	100	51 - 120	2	30		
Chrysene	103	105	51 - 120	2	30		
Dibenz(a,h)anthracene	99	85	45 - 120	15	78		
Di-n-butyl phthalate	109	99	57 - 118	10	30		
1,2-Dichlorobenzene	75	72	32 - 120	4	42		
1,3-Dichlorobenzene	71	68	23 - 120	4	47		
1,4-Dichlorobenzene	74	70	24 - 120	5	49		
3,3'-Dichlorobenzidine	62	63	18 - 120	3	50	J	
2,4-Dichlorophenol	88	94	46 - 120	6	30		
Diethyl phthalate	102	103	59 - 114	0	30		
2,4-Dimethylphenol	77	82	44 - 119	7	35		
Dimethyl phthalate	104	106	58 - 112	1	30		
4,6-Dinitro-2-methylphenol	101	94	40 - 120	8	55		
2,4-Dinitrophenol	89	93	20 - 121	5	61		
2,4-Dinitrotoluene	105	105	57 - 120	0	35		
2,6-Dinitrotoluene	95	101	56 - 120	6	30		
Di-n-octyl phthalate	105	111	56 - 120	5	30		
Fluoranthene	113	113	58 - 120	1	30		

Client: Waste Management

Job Number: 280-11648-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49365

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-49365/2-A	Analysis Batch: 280-49865	Instrument ID: MSS_D
Client Matrix:	Water	Prep Batch: 280-49365	Lab File ID: D1475.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/20/2011 1546		Final Weight/Volume: 1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume: 0.5 uL

LCSD Lab Sample ID:	LCSD 280-49365/3-A	Analysis Batch: 280-49865	Instrument ID: MSS_D
Client Matrix:	Water	Prep Batch: 280-49365	Lab File ID: D1476.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/20/2011 1605		Final Weight/Volume: 1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume: 0.5 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Fluorene	100	103	59 - 120	3	30		
Hexachlorobenzene	105	93	53 - 120	12	30		
Hexachlorobutadiene	74	72	27 - 116	4	41		
Hexachlorocyclopentadiene	50	52	10 - 120	5	82	J	J
Hexachloroethane	66	64	40 - 113	3	52		
Indeno[1,2,3-cd]pyrene	122	103	50 - 120	17	73	*	
Isophorone	91	99	50 - 120	9	30		
p-Cresol	106	101	42 - 120	5	39		
Naphthalene	88	85	37 - 120	3	30		
Nitrobenzene	95	100	46 - 120	5	30		
2-Nitrophenol	85	94	47 - 120	10	30		
4-Nitrophenol	103	106	53 - 120	4	42		
N-Nitrosodimethylamine	103	89	37 - 120	15	30		
N-Nitrosodiphenylamine	106	95	46 - 203	11	50		
N-Nitrosodi-n-propylamine	101	96	50 - 120	5	30		
Pentachlorophenol	107	95	46 - 120	13	30		
Phenanthrene	104	102	54 - 120	2	30		
Phenol	103	98	37 - 112	5	30		
Pyrene	106	115	55 - 115	8	30		
1,2,4-Trichlorobenzene	70	76	44 - 120	9	35		
2,4,6-Trichlorophenol	97	99	51 - 120	2	30		
2-Methylphenol	102	94	38 - 120	8	35		
Benzo[g,h,i]perylene	112	95	48 - 120	16	64		
2,2'-Oxybis(1-chloropropane)	100	95	37 - 120	5	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	94	95	36 - 120
2-Fluorophenol	97	84	30 - 120
2,4,6-Tribromophenol	100	110	50 - 120
Nitrobenzene-d5	93	98	45 - 120
Phenol-d5	102	98	36 - 120
Terphenyl-d14	110	117	52 - 120

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49365

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-49365/2-A	Units: mg/L		LCSD Lab Sample ID:	LCSD 280-49365/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/20/2011 1546			Date Analyzed:	01/20/2011 1605
Date Prepared:	01/17/2011 1831			Date Prepared:	01/17/2011 1831

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Acenaphthene	0.0800	0.0800	0.0767		0.0787	
Acenaphthylene	0.0800	0.0800	0.0780		0.0815	
Anthracene	0.0800	0.0800	0.0851		0.0804	
Benzidine	0.200	0.200	0.194		0.219	
Benzo[a]anthracene	0.0800	0.0800	0.0818		0.0861	
Benzo[b]fluoranthene	0.0800	0.0800	0.0792		0.0855	
Benzo[k]fluoranthene	0.0800	0.0800	0.0680		0.0748	
Benzo[a]pyrene	0.0800	0.0800	0.0668		0.0712	
Bis(2-chloroethoxy)methane	0.0800	0.0800	0.0691		0.0759	
Bis(2-chloroethyl)ether	0.0800	0.0800	0.0729		0.0703	
Bis(2-ethylhexyl) phthalate	0.0800	0.0800	0.0813		0.0780	
4-Bromophenyl phenyl ether	0.0800	0.0800	0.0922		0.0805	
Butyl benzyl phthalate	0.0800	0.0800	0.0832		0.0892	
4-Chloro-3-methylphenol	0.0800	0.0800	0.0842		0.0745	
2-Chloronaphthalene	0.0800	0.0800	0.0749		0.0772	
2-Chlorophenol	0.0800	0.0800	0.0815		0.0761	
4-Chlorophenyl phenyl ether	0.0800	0.0800	0.0784		0.0800	
Chrysene	0.0800	0.0800	0.0824		0.0840	
Dibenz(a,h)anthracene	0.0800	0.0800	0.0791		0.0681	
Di-n-butyl phthalate	0.0800	0.0800	0.0872		0.0791	
1,2-Dichlorobenzene	0.0800	0.0800	0.0599		0.0572	
1,3-Dichlorobenzene	0.0800	0.0800	0.0567		0.0546	
1,4-Dichlorobenzene	0.0800	0.0800	0.0588		0.0562	
3,3'-Dichlorobenzidine	0.0800	0.0800	0.0494	J	0.0508	
2,4-Dichlorophenol	0.0800	0.0800	0.0705		0.0749	
Diethyl phthalate	0.0800	0.0800	0.0818		0.0822	
2,4-Dimethylphenol	0.0800	0.0800	0.0614		0.0657	
Dimethyl phthalate	0.0800	0.0800	0.0836		0.0848	
4,6-Dinitro-2-methylphenol	0.0800	0.0800	0.0811		0.0749	
2,4-Dinitrophenol	0.0800	0.0800	0.0711		0.0744	
2,4-Dinitrotoluene	0.0800	0.0800	0.0839		0.0843	
2,6-Dinitrotoluene	0.0800	0.0800	0.0762		0.0811	
Di-n-octyl phthalate	0.0800	0.0800	0.0843		0.0888	
Fluoranthene	0.0800	0.0800	0.0905		0.0900	
Fluorene	0.0800	0.0800	0.0799		0.0824	
Hexachlorobenzene	0.0800	0.0800	0.0837		0.0745	
Hexachlorobutadiene	0.0800	0.0800	0.0594		0.0573	
Hexachlorocyclopentadiene	0.0800	0.0800	0.0399	J	0.0420	J
Hexachloroethane	0.0800	0.0800	0.0531		0.0515	
Indeno[1,2,3-cd]pyrene	0.0800	0.0800	0.0974	*	0.0821	
Isophorone	0.0800	0.0800	0.0727		0.0794	

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49365

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-49365/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49365/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/20/2011 1546			Date Analyzed:	01/20/2011 1605
Date Prepared:	01/17/2011 1831			Date Prepared:	01/17/2011 1831

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
p-Cresol	0.160	0.160	0.169	0.161
Naphthalene	0.0800	0.0800	0.0701	0.0680
Nitrobenzene	0.0800	0.0800	0.0760	0.0797
2-Nitrophenol	0.0800	0.0800	0.0683	0.0751
4-Nitrophenol	0.0800	0.0800	0.0821	0.0852
N-Nitrosodimethylamine	0.0800	0.0800	0.0821	0.0710
N-Nitrosodiphenylamine	0.0683	0.0683	0.0724	0.0651
N-Nitrosodi-n-propylamine	0.0800	0.0800	0.0809	0.0770
Pentachlorophenol	0.0800	0.0800	0.0860	0.0758
Phenanthrene	0.0800	0.0800	0.0830	0.0816
Phenol	0.0800	0.0800	0.0820	0.0783
Pyrene	0.0800	0.0800	0.0850	0.0918
1,2,4-Trichlorobenzene	0.0800	0.0800	0.0556	0.0609
2,4,6-Trichlorophenol	0.0800	0.0800	0.0778	0.0792
2-Methylphenol	0.0800	0.0800	0.0816	0.0755
Benzo[g,h,i]perylene	0.0800	0.0800	0.0894	0.0759
2,2'-Oxybis(1-chloropropane)	0.0800	0.0800	0.0799	0.0762

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49321

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: MB 280-49321/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 2010
Date Prepared: 01/17/2011 1427

Analysis Batch: 280-49542
Prep Batch: 280-49321
Units: mg/L

Instrument ID: MT_026
Lab File ID: 26a011811.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	ND		0.022	0.10
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	ND		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	ND		0.24	3.0
Calcium	ND		0.034	0.20
Magnesium	ND		0.011	0.20
Sodium	0.221	J ^	0.092	5.0

Lab Control Sample - Batch: 280-49321

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: LCS 280-49321/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 2012
Date Prepared: 01/17/2011 1427

Analysis Batch: 280-49542
Prep Batch: 280-49321
Units: mg/L

Instrument ID: MT_026
Lab File ID: 26a011811.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	1.07	107	88 - 110	
Cadmium	0.100	0.0980	98	88 - 111	
Iron	1.00	0.994	99	89 - 115	
Lead	0.500	0.524	105	89 - 110	
Selenium	2.00	2.14	107	85 - 112	
Zinc	0.500	0.470	94	85 - 111	
Silver	0.0500	0.0470	94	85 - 115	
Potassium	50.0	50.1	100	89 - 114	
Calcium	50.0	47.9	96	90 - 111	
Magnesium	50.0	47.7	95	90 - 113	
Sodium	50.0	53.4	107	90 - 115	

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49321

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11648-5	Analysis Batch: 280-49542	Instrument ID: MT_026
Client Matrix:	Water	Prep Batch: 280-49321	Lab File ID: 26a011811.asc
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	01/18/2011 2032		Final Weight/Volume: 50 mL
Date Prepared:	01/17/2011 1427		

MSD Lab Sample ID:	280-11648-5	Analysis Batch: 280-49542	Instrument ID: MT_026
Client Matrix:	Water	Prep Batch: 280-49321	Lab File ID: 26a011811.asc
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	01/18/2011 2035		Final Weight/Volume: 50 mL
Date Prepared:	01/17/2011 1427		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	114	114	88 - 110	0	20	F	F
Cadmium	101	101	88 - 111	0	20		
Iron	221	160	89 - 115	4	20	4	4
Lead	95	95	89 - 110	1	20		
Selenium	111	111	85 - 112	1	20		
Zinc	93	92	85 - 111	1	20		
Silver	103	102	85 - 115	1	20		
Potassium	116	113	89 - 114	1	20	4	4
Calcium	95	91	90 - 111	1	20		
Magnesium	86	82	90 - 113	0	20	4	4
Sodium	222	132	90 - 115	1	20	4	4

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49321

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11644-C-7-B MS	Analysis Batch: 280-49542	Instrument ID: MT_026
Client Matrix:	Water	Prep Batch: 280-49321	Lab File ID: 26a011811.asc
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	01/18/2011 2349		Final Weight/Volume: 50 mL
Date Prepared:	01/17/2011 1427		

MSD Lab Sample ID:	280-11644-C-7-C MSD	Analysis Batch: 280-49542	Instrument ID: MT_026
Client Matrix:	Water	Prep Batch: 280-49321	Lab File ID: 26a011811.asc
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	01/18/2011 2351		Final Weight/Volume: 50 mL
Date Prepared:	01/17/2011 1427		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	113	114	88 - 110	0	20	F	F
Cadmium	99	100	88 - 111	0	20		
Iron	105	107	89 - 115	1	20		
Lead	108	109	89 - 110	0	20		
Selenium	112	113	85 - 112	1	20		F
Zinc	95	95	85 - 111	0	20		
Silver	97	98	85 - 115	1	20		
Potassium	106	106	89 - 114	0	20		
Calcium	97	97	90 - 111	0	20		
Magnesium	96	96	90 - 113	0	20		
Sodium	111	109	90 - 115	1	20		

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49321

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11648-5	Units: mg/L	MSD Lab Sample ID:	280-11648-5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/18/2011 2032		Date Analyzed:	01/18/2011 2035
Date Prepared:	01/17/2011 1427		Date Prepared:	01/17/2011 1427

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	ND		1.00	1.00	1.14	F	1.14	F
Cadmium	ND		0.100	0.100	0.101		0.101	
Iron	14		1.00	1.00	16.2	4	15.6	4
Lead	0.0061	J	0.500	0.500	0.483		0.480	
Selenium	ND		2.00	2.00	2.23		2.21	
Zinc	0.037		0.500	0.500	0.502		0.495	
Silver	ND		0.0500	0.0500	0.0514		0.0510	
Potassium	200		50.0	50.0	258	4	257	4
Calcium	190		50.0	50.0	243		240	
Magnesium	510		50.0	50.0	554	4	552	4
Sodium	5000		50.0	50.0	5100	4	5050	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49321

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11644-C-7-B MS	Units: mg/L	MSD Lab Sample ID:	280-11644-C-7-C MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/18/2011 2349		Date Analyzed:	01/18/2011 2351
Date Prepared:	01/17/2011 1427		Date Prepared:	01/17/2011 1427

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	ND		1.00	1.00	1.13	F	1.14	F
Cadmium	ND		0.100	0.100	0.0993		0.0997	
Iron	0.31		1.00	1.00	1.35		1.37	
Lead	ND		0.500	0.500	0.542		0.543	
Selenium	ND		2.00	2.00	2.24		2.27	F
Zinc	ND		0.500	0.500	0.476		0.475	
Silver	ND		0.0500	0.0500	0.0486		0.0492	
Potassium	1.4	J	50.0	50.0	54.2		54.4	
Calcium	61		50.0	50.0	109		109	
Magnesium	13		50.0	50.0	61.1		61.1	
Sodium	30		50.0	50.0	85.0		84.0	

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49281

Method: 245.1
Preparation: 245.1

Lab Sample ID: MB 280-49281/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1559
Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
Prep Batch: 280-49281
Units: mg/L

Instrument ID: MT_033
Lab File ID: 110117AB.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.000027	0.00020

Lab Control Sample - Batch: 280-49281

Method: 245.1
Preparation: 245.1

Lab Sample ID: LCS 280-49281/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1601
Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
Prep Batch: 280-49281
Units: mg/L

Instrument ID: MT_033
Lab File ID: 110117AB.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00526	105	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49281

Method: 245.1
Preparation: 245.1

MS Lab Sample ID: 280-11648-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1615
Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
Prep Batch: 280-49281

Instrument ID: MT_033
Lab File ID: 110117AB.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 280-11648-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1617
Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
Prep Batch: 280-49281

Instrument ID: MT_033
Lab File ID: 110117AB.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	108	106	80 - 120	1	10		

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49281

Method: 245.1
Preparation: 245.1

MS Lab Sample ID:	280-11648-3	Units: mg/L	MSD Lab Sample ID:	280-11648-3
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/17/2011 1615		Date Analyzed:	01/17/2011 1617
Date Prepared:	01/17/2011 1155		Date Prepared:	01/17/2011 1155

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.00500	0.00500	0.00538	0.00530

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49286

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 280-49286/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1223
Date Prepared: 01/17/2011 1146

Analysis Batch: 280-49297
Prep Batch: 280-49286
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
HEM	ND		1.4	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49286

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID: LCS 280-49286/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1223
Date Prepared: 01/17/2011 1146

Analysis Batch: 280-49297
Prep Batch: 280-49286
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

LCSD Lab Sample ID: LCSD 280-49286/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1223
Date Prepared: 01/17/2011 1146

Analysis Batch: 280-49297
Prep Batch: 280-49286
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
HEM	85	86	81 - 107	1	22		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49286

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID:	LCS 280-49286/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49286/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/17/2011 1223			Date Analyzed:	01/17/2011 1223
Date Prepared:	01/17/2011 1146			Date Prepared:	01/17/2011 1146

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
HEM	40.0	40.0	34.1	34.3

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49632

Method: 300.0A
Preparation: N/A

Lab Sample ID: MB 280-49632/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1231
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Bromide	ND		0.11	0.20
Chloride	ND		0.25	0.50
Sulfate	0.245	J	0.23	5.0

Method Reporting Limit Check - Batch: 280-49632

Method: 300.0A
Preparation: N/A

Lab Sample ID: MRL 280-49632/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1139
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	0.196	98	50 - 150	J
Chloride	1.00	0.976	98	50 - 150	J
Sulfate	1.00	1.03	103	50 - 150	J

Client: Waste Management

Job Number: 280-11648-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49632

Method: 300.0A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49632/4	Analysis Batch:	280-49632	Instrument ID:	WC_IC6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	01/17/2011 1156			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

LCSD Lab Sample ID:	LCSD 280-49632/5	Analysis Batch:	280-49632	Instrument ID:	WC_IC6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	01/17/2011 1214			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Bromide	97	98	90 - 110	0	10		
Chloride	100	100	90 - 110	0	10		
Sulfate	102	102	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49632

Method: 300.0A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49632/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49632/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/17/2011 1156			Date Analyzed:	01/17/2011 1214
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromide	5.00	5.00	4.87	4.89
Chloride	25.0	25.0	24.9	24.9
Sulfate	25.0	25.0	25.6	25.4

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49632

Method: 300.0A
Preparation: N/A

MS Lab Sample ID:	280-11561-A-5 MS	Analysis Batch: 280-49632	Instrument ID: WC_IC6
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 124.TXT
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	01/17/2011 1652		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-11561-A-5 MSD	Analysis Batch: 280-49632	Instrument ID: WC_IC6
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 125.TXT
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	01/17/2011 1709		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromide	103	103	80 - 120	0	20		
Chloride	104	105	80 - 120	1	20		
Sulfate	104	104	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49632

Method: 300.0A
Preparation: N/A

MS Lab Sample ID:	280-11561-A-5 MS	Units: mg/L	MSD Lab Sample ID:	280-11561-A-5 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/17/2011 1652		Date Analyzed:	01/17/2011 1709
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	ND	5.00	5.00	5.14	5.17
Chloride	3.1	25.0	25.0	29.1	29.4
Sulfate	5.1	25.0	25.0	31.0	31.2

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Duplicate - Batch: 280-49632

Method: 300.0A
Preparation: N/A

Lab Sample ID: 280-11561-A-5 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1634
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 123.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	ND	ND	NC	15	
Chloride	3.1	3.10	1	15	
Sulfate	5.1	5.08	0.4	15	

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49479

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 280-49479/68
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1443
Date Prepared: N/A

Analysis Batch: 280-49479
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49479

Method: 350.1
Preparation: N/A

LCS Lab Sample ID: LCS 280-49479/69
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1444
Date Prepared: N/A

Analysis Batch: 280-49479
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49479/70
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1446
Date Prepared: N/A

Analysis Batch: 280-49479
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia	100	101	90 - 110	1	10		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49479

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49479/69	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49479/70
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/18/2011 1444			Date Analyzed:	01/18/2011 1446
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia	5.00	5.00	4.99	5.03

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49479

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-11648-3	Analysis Batch:	280-49479	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	C:\FLOW_4\0118NXN.RST
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	01/18/2011 1449			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-11648-3	Analysis Batch:	280-49479	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	C:\FLOW_4\0118NXN.RST
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	01/18/2011 1450			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia	103	104	90 - 110	0	20		

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49479

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-11648-3	Units: mg/L	MSD Lab Sample ID:	280-11648-3
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/18/2011 1449		Date Analyzed:	01/18/2011 1450
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia	0.053	J	4.00	4.00	4.19	4.21

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49480

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 280-49480/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1337
Date Prepared: N/A

Analysis Batch: 280-49480
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	ND		0.019	0.10

Method Reporting Limit Check - Batch: 280-49480

Method: 353.2
Preparation: N/A

Lab Sample ID: MRL 280-49480/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1326
Date Prepared: N/A

Analysis Batch: 280-49480
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	0.100	0.0947	95	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49480

Method: 353.2
Preparation: N/A

LCS Lab Sample ID: LCS 280-49480/25
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1338
Date Prepared: N/A

Analysis Batch: 280-49480
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49480/26
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1340
Date Prepared: N/A

Analysis Batch: 280-49480
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate Nitrite as N	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49480

Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49480/25	Units: mg/L		LCSD Lab Sample ID:	LCSD 280-49480/26
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/18/2011 1338			Date Analyzed:	01/18/2011 1340
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate Nitrite as N	5.00	5.00	4.98	4.98

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49480

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	280-11561-E-7 MS	Analysis Batch:	280-49480	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	C:\FLOW_4\0118NXN.RST
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	01/18/2011 1419			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-11561-E-7 MSD	Analysis Batch:	280-49480	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	C:\FLOW_4\0118NXN.RST
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	01/18/2011 1420			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate Nitrite as N	99	98	72 - 113	0	17		

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49480

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	280-11561-E-7 MS	Units: mg/L	MSD Lab Sample ID:	280-11561-E-7 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/18/2011 1419		Date Analyzed:	01/18/2011 1420
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	1.1	4.00	4.00	5.07	5.06

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49680

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID: MB 280-49680/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895
Prep Batch: 280-49680
Units: mg/L

Instrument ID: WC_Konelab
Lab File ID: 012111Tphos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	0.0115	J	0.0050	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49680

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID: LCS 280-49680/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895
Prep Batch: 280-49680
Units: mg/L

Instrument ID: WC_Konelab
Lab File ID: 012111Tphos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 280-49680/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895
Prep Batch: 280-49680
Units: mg/L

Instrument ID: WC_Konelab
Lab File ID: 012111Tphos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phosphorus, Total	97	97	90 - 110	1	10		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49680

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-49680/1-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49680/2-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/21/2011 0856			Date Analyzed:	01/21/2011 0856
Date Prepared:	01/20/2011 0938			Date Prepared:	01/20/2011 0938

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.483	0.487

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49680

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-11648-5	Analysis Batch:	280-49895	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-49680	Lab File ID:	012111Tphos2.xls
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/21/2011 0856			Final Weight/Volume:	50 mL
Date Prepared:	01/20/2011 0938				

MSD Lab Sample ID:	280-11648-5	Analysis Batch:	280-49895	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-49680	Lab File ID:	012111Tphos2.xls
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/21/2011 0856			Final Weight/Volume:	50 mL
Date Prepared:	01/20/2011 0938				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phosphorus, Total	87	75	71 - 128	8	22		

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49680

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-11648-5	Units: mg/L	MSD Lab Sample ID:	280-11648-5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/21/2011 0856		Date Analyzed:	01/21/2011 0856
Date Prepared:	01/20/2011 0938		Date Prepared:	01/20/2011 0938

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Phosphorus, Total	0.33	0.500	0.500	0.767	0.706

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49489

Method: 410.4
Preparation: N/A

Lab Sample ID: MB 280-49489/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	ND		4.1	20

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49489

Method: 410.4
Preparation: N/A

LCS Lab Sample ID: LCS 280-49489/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49489/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chemical Oxygen Demand	94	100	90 - 110	7	11		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49489

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49489/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49489/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/18/2011 1729			Date Analyzed:	01/18/2011 1729
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	93.7	100

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49489

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-11648-2	Analysis Batch: 280-49489	Instrument ID: WC_HACH SPEC
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 2 mL
Date Analyzed:	01/18/2011 1729		Final Weight/Volume: 100 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-11648-2	Analysis Batch: 280-49489	Instrument ID: WC_HACH SPEC
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 2 mL
Date Analyzed:	01/18/2011 1729		Final Weight/Volume: 100 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	101	95	90 - 110	4	11		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49489

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-11648-2	Units: mg/L	MSD Lab Sample ID:	280-11648-2
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/18/2011 1729		Date Analyzed:	01/18/2011 1729
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand	29	50.0	50.0	79.1	76.0

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49821

Method: 410.4
Preparation: N/A

Lab Sample ID: MB 280-49821/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	ND		4.1	20

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49821

Method: 410.4
Preparation: N/A

LCS Lab Sample ID: LCS 280-49821/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49821/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chemical Oxygen Demand	107	110	90 - 110	2	11		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49821

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49821/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49821/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/19/2011 1737			Date Analyzed:	01/19/2011 1737
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	107	110

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49821

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-11648-1	Analysis Batch:	280-49821	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	2 mL
Date Analyzed:	01/19/2011 1737			Final Weight/Volume:	100 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-11648-1	Analysis Batch:	280-49821	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	2 mL
Date Analyzed:	01/19/2011 1737			Final Weight/Volume:	100 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	94	100	90 - 110	3	11		

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-49821

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-11648-1	Units: mg/L	MSD Lab Sample ID:	280-11648-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/19/2011 1737		Date Analyzed:	01/19/2011 1737
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand	45	50.0	50.0	91.6	94.4

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49444

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 280-49444/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1852
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Alkalinity	ND		1.1	5.0
Bicarbonate Alkalinity	ND		1.1	5.0
Carbonate Alkalinity	ND		1.1	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49444

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID: LCS 280-49444/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1835
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-49444/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1845
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Alkalinity	98	100	90 - 110	2	10		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49444

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49444/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49444/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/17/2011 1835			Date Analyzed:	01/17/2011 1845
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Alkalinity	200	200	195	199

Duplicate - Batch: 280-49444

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-11644-A-1 DU	Analysis Batch:	280-49444	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	011711.txt
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	01/17/2011 1919			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	1100	1140	0.2	10	

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49449

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 280-49449/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	ND		1.1	4.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-49449

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 280-49449/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 250 mL

LCSD Lab Sample ID: LCSD 280-49449/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 250 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Suspended Solids	101	102	86 - 114	1	20		

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-49449

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-49449/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-49449/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/18/2011 1349			Date Analyzed:	01/18/2011 1349
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	101	102

Duplicate - Batch: 280-49449

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-11616-C-1 DU	Analysis Batch:	280-49449	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	25 mL
Date Analyzed:	01/18/2011 1349			Final Weight/Volume:	250 mL
Date Prepared:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	280	272	1	10	

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49935

Method: Total Nitrogen
Preparation: N/A

Lab Sample ID: MB 280-49935/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 1207
Date Prepared: N/A

Analysis Batch: 280-49935
Prep Batch: N/A
Units: mg/L

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

Analyte	Result	Qual	MDL	RL
Nitrogen, Total	ND		0.042	0.10

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-1 **Client ID:** CULVERT

Sample Date/Time: 01/13/2011 19:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-C-1-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-C-1-A		280-49865	280-49365	01/21/2011 00:49	1	TAL DEN	MGH
P:200.7	280-11648-F-1-B		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-1-B		280-49542	280-49321	01/18/2011 20:14	1	TAL DEN	HEB
P:245.1	280-11648-F-1-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-1-A		280-49379	280-49281	01/17/2011 16:08	1	TAL DEN	KS
P:1664A	280-11648-A-1-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-A-1-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-G-1		280-49632		01/17/2011 19:10	1	TAL DEN	TLP
A:300.0A	280-11648-G-1		280-49632		01/18/2011 11:05	5	TAL DEN	TLP
A:350.1	280-11648-E-1		280-49479		01/18/2011 14:52	1	TAL DEN	LES
A:353.2	280-11648-E-1		280-49480		01/18/2011 14:25	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-1-B		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-1-B		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-A-1		280-49821		01/19/2011 17:37	1	TAL DEN	MRD
A:SM 2320B	280-11648-D-1		280-49444		01/17/2011 20:27	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-1		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-1		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-1		280-49270		01/13/2011 19:15	1	TAL DEN	FS

Lab ID: 280-11648-1 MS **Client ID:** CULVERT

Sample Date/Time: 01/13/2011 19:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-A-1 MS		280-49821		01/19/2011 17:37	1	TAL DEN	MRD

Lab ID: 280-11648-1 MSD **Client ID:** CULVERT

Sample Date/Time: 01/13/2011 19:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-A-1 MSD		280-49821		01/19/2011 17:37	1	TAL DEN	MRD

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-2 **Client ID:** UPCANYON

Sample Date/Time: 01/13/2011 17:50 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-B-2-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-B-2-A		280-49865	280-49365	01/21/2011 01:08	1	TAL DEN	MGH
P:200.7	280-11648-F-2-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-2-A		280-49542	280-49321	01/18/2011 20:17	1	TAL DEN	HEB
P:245.1	280-11648-G-2-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-G-2-A		280-49379	280-49281	01/17/2011 16:11	1	TAL DEN	KS
P:1664A	280-11648-A-2-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-A-2-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-H-2		280-49632		01/17/2011 19:27	1	TAL DEN	TLP
A:300.0A	280-11648-H-2		280-49632		01/18/2011 11:22	5	TAL DEN	TLP
A:350.1	280-11648-F-2		280-49479		01/18/2011 14:53	1	TAL DEN	LES
A:353.2	280-11648-F-2		280-49480		01/18/2011 14:26	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-2-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-2-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-E-2		280-49489		01/18/2011 17:29	1	TAL DEN	MRD
A:SM 2320B	280-11648-D-2		280-49444		01/17/2011 20:34	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-2		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-2		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-2		280-49270		01/13/2011 17:50	1	TAL DEN	FS

Lab ID: 280-11648-2 MS **Client ID:** UPCANYON

Sample Date/Time: 01/13/2011 17:50 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-E-2 MS		280-49489		01/18/2011 17:29	1	TAL DEN	MRD

Lab ID: 280-11648-2 MSD **Client ID:** UPCANYON

Sample Date/Time: 01/13/2011 17:50 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-E-2 MSD		280-49489		01/18/2011 17:29	1	TAL DEN	MRD

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-3 **Client ID:** OCEAN WEST

Sample Date/Time: 01/13/2011 17:45 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-B-3-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-B-3-A		280-49865	280-49365	01/21/2011 01:28	1	TAL DEN	MGH
P:200.7	280-11648-F-3-F		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-3-F		280-49542	280-49321	01/18/2011 20:19	1	TAL DEN	HEB
P:200.7	280-11648-F-3-F ^100		280-49660	280-49321	01/17/2011 14:27	100	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-3-F ^100		280-49660	280-49321	01/19/2011 19:18	100	TAL DEN	HEB
P:245.1	280-11648-F-3-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-3-A		280-49379	280-49281	01/17/2011 16:13	1	TAL DEN	KS
P:1664A	280-11648-C-3-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-C-3-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-G-3		280-49632		01/17/2011 19:45	20	TAL DEN	TLP
A:300.0A	280-11648-G-3		280-49632		01/18/2011 11:40	100	TAL DEN	TLP
A:300.0A	280-11648-G-3		280-49632		01/18/2011 11:57	500	TAL DEN	TLP
A:350.1	280-11648-E-3		280-49479		01/18/2011 14:47	1	TAL DEN	LES
A:353.2	280-11648-E-3		280-49480		01/18/2011 14:28	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-3-B		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-3-B		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-A-3		280-49821		01/19/2011 17:37	5	TAL DEN	MRD
A:SM 2320B	280-11648-D-3		280-49444		01/17/2011 20:58	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-3		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-3		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-3		280-49270		01/13/2011 17:45	1	TAL DEN	FS

Lab ID: 280-11648-3 MS **Client ID:** OCEAN WEST

Sample Date/Time: 01/13/2011 17:45 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:245.1	280-11648-F-3-D MS		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-3-D MS		280-49379	280-49281	01/17/2011 16:15	1	TAL DEN	KS
A:350.1	280-11648-E-3 MS		280-49479		01/18/2011 14:49	1	TAL DEN	LES

Lab ID: 280-11648-3 MSD **Client ID:** OCEAN WEST

Sample Date/Time: 01/13/2011 17:45 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:245.1	280-11648-F-3-E MSD		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-3-E MSD		280-49379	280-49281	01/17/2011 16:17	1	TAL DEN	KS
A:350.1	280-11648-E-3 MSD		280-49479		01/18/2011 14:50	1	TAL DEN	LES

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: **280-11648-4** **Client ID:** **OCEAN EAST**

Sample Date/Time: 01/13/2011 18:00 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-B-4-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-B-4-A		280-49865	280-49365	01/21/2011 01:47	1	TAL DEN	MGH
P:200.7	280-11648-F-4-B		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-4-B		280-49542	280-49321	01/18/2011 20:22	1	TAL DEN	HEB
P:200.7	280-11648-F-4-B ^100		280-49660	280-49321	01/17/2011 14:27	100	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-4-B ^100		280-49660	280-49321	01/19/2011 19:20	100	TAL DEN	HEB
P:245.1	280-11648-F-4-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-4-A		280-49379	280-49281	01/17/2011 16:20	1	TAL DEN	KS
P:1664A	280-11648-C-4-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-C-4-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-G-4		280-49632		01/17/2011 20:02	20	TAL DEN	TLP
A:300.0A	280-11648-G-4		280-49632		01/18/2011 12:14	100	TAL DEN	TLP
A:300.0A	280-11648-G-4		280-49632		01/18/2011 12:31	500	TAL DEN	TLP
A:350.1	280-11648-E-4		280-49479		01/18/2011 14:55	1	TAL DEN	LES
A:353.2	280-11648-E-4		280-49480		01/18/2011 14:29	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-4-B		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-4-B		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-A-4		280-49821		01/19/2011 17:37	5	TAL DEN	MRD
A:SM 2320B	280-11648-D-4		280-49444		01/17/2011 21:06	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-4		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-4		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-4		280-49270		01/13/2011 18:00	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-5 **Client ID:** OCEAN OUTLET

Sample Date/Time: 01/13/2011 18:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-A-5-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-A-5-A		280-49865	280-49365	01/21/2011 02:07	1	TAL DEN	MGH
P:200.7	280-11648-F-5-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-5-A		280-49542	280-49321	01/18/2011 20:26	1	TAL DEN	HEB
P:245.1	280-11648-G-5-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-G-5-A		280-49379	280-49281	01/17/2011 16:22	1	TAL DEN	KS
P:1664A	280-11648-B-5-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-B-5-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-H-5		280-49632		01/17/2011 20:19	10	TAL DEN	TLP
A:300.0A	280-11648-H-5		280-49632		01/18/2011 12:49	50	TAL DEN	TLP
A:300.0A	280-11648-H-5		280-49632		01/18/2011 13:06	200	TAL DEN	TLP
A:350.1	280-11648-F-5		280-49479		01/18/2011 15:05	1	TAL DEN	LES
A:353.2	280-11648-F-5		280-49480		01/18/2011 14:31	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-5-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-5-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-E-5		280-49489		01/18/2011 17:29	2	TAL DEN	MRD
A:SM 2320B	280-11648-D-5		280-49444		01/17/2011 21:14	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-5		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-5		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-5		280-49270		01/13/2011 18:15	1	TAL DEN	FS

Lab ID: 280-11648-5 MS **Client ID:** OCEAN OUTLET

Sample Date/Time: 01/13/2011 18:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11648-F-5-B MS		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-5-B MS		280-49542	280-49321	01/18/2011 20:32	1	TAL DEN	HEB
P:365.2/365.3/365	280-11648-E-5-B MS		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-5-B MS		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: **280-11648-5 MSD** **Client ID:** **OCEAN OUTLET**

Sample Date/Time: 01/13/2011 18:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11648-F-5-C MSD		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-5-C MSD		280-49542	280-49321	01/18/2011 20:35	1	TAL DEN	HEB
P:365.2/365.3/365	280-11648-E-5-C MSD		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-5-C MSD		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	MB 280-49365/1-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	MB 280-49365/1-A		280-49865	280-49365	01/21/2011 00:30	1	TAL DEN	MGH
P:200.7	MB 280-49321/1-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	MB 280-49321/1-A		280-49542	280-49321	01/18/2011 20:10	1	TAL DEN	HEB
P:245.1	MB 280-49281/1-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	MB 280-49281/1-A		280-49379	280-49281	01/17/2011 15:59	1	TAL DEN	KS
P:1664A	MB 280-49286/1-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	MB 280-49286/1-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	MB 280-49632/6		280-49632		01/17/2011 12:31	1	TAL DEN	TLP
A:350.1	MB 280-49479/68		280-49479		01/18/2011 14:43	1	TAL DEN	LES
A:353.2	MB 280-49480/24		280-49480		01/18/2011 13:37	1	TAL DEN	LES
P:365.2/365.3/365	MB 280-49680/3-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	MB 280-49680/3-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	MB 280-49489/5		280-49489		01/18/2011 17:29	1	TAL DEN	MRD
A:410.4	MB 280-49821/5		280-49821		01/19/2011 17:37	1	TAL DEN	MRD
A:SM 2320B	MB 280-49444/6		280-49444		01/17/2011 18:52	1	TAL DEN	MRD
A:SM 2540D	MB 280-49449/1		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	MB 280-49935/1		280-49935		01/21/2011 12:07	1	TAL DEN	RS

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	LCS 280-49365/2-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	LCS 280-49365/2-A		280-49865	280-49365	01/20/2011 15:46	1	TAL DEN	MGH
P:200.7	LCS 280-49321/2-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	LCS 280-49321/2-A		280-49542	280-49321	01/18/2011 20:12	1	TAL DEN	HEB
P:245.1	LCS 280-49281/2-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	LCS 280-49281/2-A		280-49379	280-49281	01/17/2011 16:01	1	TAL DEN	KS
P:1664A	LCS 280-49286/2-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	LCS 280-49286/2-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	LCS 280-49632/4		280-49632		01/17/2011 11:56	1	TAL DEN	TLP
A:350.1	LCS 280-49479/69		280-49479		01/18/2011 14:44	1	TAL DEN	LES
A:353.2	LCS 280-49480/25		280-49480		01/18/2011 13:38	1	TAL DEN	LES
P:365.2/365.3/365	LCS 280-49680/1-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	LCS 280-49680/1-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	LCS 280-49489/3		280-49489		01/18/2011 17:29	1	TAL DEN	MRD
A:410.4	LCS 280-49821/3		280-49821		01/19/2011 17:37	1	TAL DEN	MRD
A:SM 2320B	LCS 280-49444/4		280-49444		01/17/2011 18:35	1	TAL DEN	MRD
A:SM 2540D	LCS 280-49449/2		280-49449		01/18/2011 13:49	1	TAL DEN	PAG

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	LCSD 280-49365/3-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	LCSD 280-49365/3-A		280-49865	280-49365	01/20/2011 16:05	1	TAL DEN	MGH
P:1664A	LCSD 280-49286/3-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	LCSD 280-49286/3-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	LCSD 280-49632/5		280-49632		01/17/2011 12:14	1	TAL DEN	TLP
A:350.1	LCSD 280-49479/70		280-49479		01/18/2011 14:46	1	TAL DEN	LES
A:353.2	LCSD 280-49480/26		280-49480		01/18/2011 13:40	1	TAL DEN	LES
P:365.2/365.3/365	LCSD 280-49680/2-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	LCSD 280-49680/2-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	LCSD 280-49489/4		280-49489		01/18/2011 17:29	1	TAL DEN	MRD
A:410.4	LCSD 280-49821/4		280-49821		01/19/2011 17:37	1	TAL DEN	MRD
A:SM 2320B	LCSD 280-49444/5		280-49444		01/17/2011 18:45	1	TAL DEN	MRD
A:SM 2540D	LCSD 280-49449/3		280-49449		01/18/2011 13:49	1	TAL DEN	PAG

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: MRL **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0A	MRL 280-49632/3		280-49632		01/17/2011 11:39	1	TAL DEN	TLP
A:353.2	MRL 280-49480/17		280-49480		01/18/2011 13:26	1	TAL DEN	LES

Lab ID: MS **Client ID:** N/A

Sample Date/Time: 01/14/2011 12:52 Received Date/Time: 01/15/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11644-C-7-B MS		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11644-C-7-B MS		280-49542	280-49321	01/18/2011 23:49	1	TAL DEN	HEB
A:300.0A	280-11561-A-5 MS		280-49632		01/17/2011 16:52	1	TAL DEN	TLP
A:353.2	280-11561-E-7 MS		280-49480		01/18/2011 14:19	1	TAL DEN	LES

Lab ID: MSD **Client ID:** N/A

Sample Date/Time: 01/14/2011 12:52 Received Date/Time: 01/15/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11644-C-7-C MSD		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11644-C-7-C MSD		280-49542	280-49321	01/18/2011 23:51	1	TAL DEN	HEB
A:300.0A	280-11561-A-5 MSD		280-49632		01/17/2011 17:09	1	TAL DEN	TLP
A:353.2	280-11561-E-7 MSD		280-49480		01/18/2011 14:20	1	TAL DEN	LES

Lab ID: DU **Client ID:** N/A

Sample Date/Time: 01/12/2011 10:05 Received Date/Time: 01/12/2011 17:26

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0A	280-11561-A-5 DU		280-49632		01/17/2011 16:34	1	TAL DEN	TLP
A:SM 2320B	280-11644-A-1 DU		280-49444		01/17/2011 19:19	1	TAL DEN	MRD
A:SM 2540D	280-11616-C-1 DU		280-49449		01/18/2011 13:49	1	TAL DEN	PAG

Lab References:
TAL DEN = TestAmerica Denver

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HUA0073
TestAmerica Sample Delivery Group: HUA0073
Client Project/Site: 60147675.02
Client Project Description: AECOM, WGSL STORMWATER

For:
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002

Attn: Betsy Sarah

Authorized for release by:
1/21/2011 12:58 PM
Marvin D. Heskett III
Laboratory Director
marvin.heskett@testamericainc.com

Designee for

Angelique Showman
Project Manager
angelique.showman@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

LINKS
Review your project results through TotalAccess
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Qualifier Definition/Glossary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

Sample Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HUA0073-01	CULVERT	Water - NonPotable	01/13/11 19:15	01/14/11 00:00
HUA0073-02	UP CANYON	Water - NonPotable	01/13/11 17:50	01/14/11 00:00
HUA0073-03	OCEAN WEST	Water - NonPotable	01/13/11 17:45	01/14/11 00:00
HUA0073-04	OCEAN EAST	Water - NonPotable	01/13/11 15:00	01/14/11 00:00
HUA0073-05	OCEAN OUTLET	Water - NonPotable	01/13/11 18:15	01/14/11 00:00

Detection Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: CULVERT — Lab Sample ID: HUA0073-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BOD - 5 Day	8.91		2.00		mg/L	1		EPA 405.1	total

Client Sample ID: UP CANYON — Lab Sample ID: HUA0073-02

No Detections.

Client Sample ID: OCEAN WEST — Lab Sample ID: HUA0073-03

No Detections.

Client Sample ID: OCEAN EAST — Lab Sample ID: HUA0073-04

No Detections.

Client Sample ID: OCEAN OUTLET — Lab Sample ID: HUA0073-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BOD - 5 Day	3.48		2.00		mg/L	1		EPA 405.1	total

Analytical Data

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: CULVERT

Lab Sample ID: HUA0073-01
Matrix: Water - NonPotable

Date Collected: 01/13/11 19:15
Date Received: 01/14/11 00:00

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	8.91		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: UP CANYON

Lab Sample ID: HUA0073-02
Matrix: Water - NonPotable

Date Collected: 01/13/11 17:50
Date Received: 01/14/11 00:00

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: OCEAN WEST

Lab Sample ID: HUA0073-03
Matrix: Water - NonPotable

Date Collected: 01/13/11 17:45
Date Received: 01/14/11 00:00

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: OCEAN EAST

Lab Sample ID: HUA0073-04
Matrix: Water - NonPotable

Date Collected: 01/13/11 15:00
Date Received: 01/14/11 00:00

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: OCEAN OUTLET

Lab Sample ID: HUA0073-05
Matrix: Water - NonPotable

Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	3.48		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Analytical Data

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: OCEAN OUTLET
Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-05
Matrix: Water - NonPotable

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Quality Control Data

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Method: EPA 405.1 - General Chemistry Parameters

Lab Sample ID: 11A0067-BLK1
Matrix: Water - NonPotable
Analysis Batch: 11A0067

Client Sample ID: 11A0067-BLK1
Prep Type: total
Prep Batch: 11A0067_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Lab Sample ID: 11A0067-BS1
Matrix: Water - NonPotable
Analysis Batch: 11A0067

Client Sample ID: 11A0067-BS1
Prep Type: total
Prep Batch: 11A0067_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
BOD - 5 Day	198	179		mg/L		91	85 - 115

Lab Sample ID: 11A0067-DUP1
Matrix: Water - NonPotable
Analysis Batch: 11A0067

Client Sample ID: HUA0066-01
Prep Type: total
Prep Batch: 11A0067_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
BOD - 5 Day	2.97		2.96		mg/L		0.3	20

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Lab Sample ID: 11A0072-BLK1
Matrix: Water - NonPotable
Analysis Batch: 11A0072

Client Sample ID: 11A0072-BLK1
Prep Type: total
Prep Batch: 11A0072_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Lab Sample ID: 11A0072-BS1
Matrix: Water - NonPotable
Analysis Batch: 11A0072

Client Sample ID: 11A0072-BS1
Prep Type: total
Prep Batch: 11A0072_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium, Hexavalent	500	501		ug/L		100	80 - 120

Lab Sample ID: 11A0072-MS1
Matrix: Water - NonPotable
Analysis Batch: 11A0072

Client Sample ID: OCEAN WEST
Prep Type: total
Prep Batch: 11A0072_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium, Hexavalent	ND		500	476		ug/L		95	75 - 125

Lab Sample ID: 11A0072-MSD1
Matrix: Water - NonPotable
Analysis Batch: 11A0072

Client Sample ID: OCEAN WEST
Prep Type: total
Prep Batch: 11A0072_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium, Hexavalent	ND		500	481		ug/L		96	75 - 125	1	20

QC Association Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

WetChem

Analysis Batch: 11A0067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0067-BLK1	11A0067-BLK1	total	Water - NonPotable	EPA 405.1	11A0067_P
11A0067-BS1	11A0067-BS1	total	Water - NonPotable	EPA 405.1	11A0067_P
11A0067-DUP1	HUA0066-01	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-01	CULVERT	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-02	UP CANYON	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-03	OCEAN WEST	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-04	OCEAN EAST	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	EPA 405.1	11A0067_P

Prep Batch: 11A0067_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0067-BLK1	11A0067-BLK1	total	Water - NonPotable	Default Prep GenChem	
11A0067-BS1	11A0067-BS1	total	Water - NonPotable	Default Prep GenChem	
11A0067-DUP1	HUA0066-01	total	Water - NonPotable	Default Prep GenChem	
HUA0073-01	CULVERT	total	Water - NonPotable	Default Prep GenChem	
HUA0073-02	UP CANYON	total	Water - NonPotable	Default Prep GenChem	
HUA0073-03	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-04	OCEAN EAST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	Default Prep GenChem	

Analysis Batch: 11A0072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0072-BLK1	11A0072-BLK1	total	Water - NonPotable	EPA 7196	11A0072_P
11A0072-BS1	11A0072-BS1	total	Water - NonPotable	EPA 7196	11A0072_P
11A0072-MS1	OCEAN WEST	total	Water - NonPotable	EPA 7196	11A0072_P
11A0072-MSD1	OCEAN WEST	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-01	CULVERT	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-02	UP CANYON	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-03	OCEAN WEST	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-04	OCEAN EAST	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	EPA 7196	11A0072_P

Prep Batch: 11A0072_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0072-BLK1	11A0072-BLK1	total	Water - NonPotable	Default Prep GenChem	
11A0072-BS1	11A0072-BS1	total	Water - NonPotable	Default Prep GenChem	
11A0072-MS1	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	

QC Association Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

WetChem (Continued)

Prep Batch: 11A0072_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0072-MSD1	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-01	CULVERT	total	Water - NonPotable	Default Prep GenChem	
HUA0073-02	UP CANYON	total	Water - NonPotable	Default Prep GenChem	
HUA0073-03	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-04	OCEAN EAST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	Default Prep GenChem	

Lab Chronicle

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: CULVERT

Lab Sample ID: HUA0073-01
Matrix: Water - NonPotable

Date Collected: 01/13/11 19:15
Date Received: 01/14/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM	TestAmerica Honolulu
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM	TestAmerica Honolulu
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM	TestAmerica Honolulu

Client Sample ID: UP CANYON

Lab Sample ID: HUA0073-02
Matrix: Water - NonPotable

Date Collected: 01/13/11 17:50
Date Received: 01/14/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM	TestAmerica Honolulu
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM	TestAmerica Honolulu
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM	TestAmerica Honolulu

Client Sample ID: OCEAN WEST

Lab Sample ID: HUA0073-03
Matrix: Water - NonPotable

Date Collected: 01/13/11 17:45
Date Received: 01/14/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM	TestAmerica Honolulu
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM	TestAmerica Honolulu
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM	TestAmerica Honolulu

Client Sample ID: OCEAN EAST

Lab Sample ID: HUA0073-04
Matrix: Water - NonPotable

Date Collected: 01/13/11 15:00
Date Received: 01/14/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM	TestAmerica Honolulu
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM	TestAmerica Honolulu
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM	TestAmerica Honolulu

Client Sample ID: OCEAN OUTLET

Lab Sample ID: HUA0073-05
Matrix: Water - NonPotable

Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM	TestAmerica Honolulu

Lab Chronicle

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: OCEAN OUTLET
Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-05
Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM	TestAmerica Honolulu
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM	TestAmerica Honolulu

Certification Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Honolulu		USDA		HON-S-206	01/31/12
TestAmerica Honolulu	Florida	NELAC	4	E87907	06/30/11
TestAmerica Honolulu	Hawaii	State Program	9		06/28/11
TestAmerica Honolulu	L-A-B	DoD ELAP	0	L2250	04/23/13

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Method	Method Description	Protocol	Laboratory
EPA 405.1	General Chemistry Parameters		TAL HON
EPA 7196	Hexavalent Chromium by EPA Method 7196A		TAL HON

Protocol References:

=

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

HUA0073

Client: Waste Management / AECOM Tech Svcs.	Project Manager: Tobias Koehler	Date: 1/13/11	Chain of Custody Number: 134341
Address: 1001 Bishop St. Ste 1600	Telephone Number (Area Code)/Fax Number: 808.356.5306	Lab Number	Page 1 of 1
City: Honolulu; State: HI; Zip Code: 96813	Site Contact: Justin Lothig	Lab Contact: Betsy Sara	
Project Name and Location (State): waste Management WGSL/995	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 28002788 (Stormwater)			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): BOD	Cr (VI)	Special Instructions/ Conditions of Receipt
Culvert	1/13/11	1915		X				X							X	X	HUA0073-01
Up canyon	1/13/11	1950		X				X							X	X	-02
Ocean West	1/13/11	1745		X				X							X	X	May be Brackish -03
Ocean East	1/13/11	1800		X				X							X	X	May be Brackish -04
Ocean outlet	1/13/11	1815		X				X							X	X	-05

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

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 2 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other ASAP

QC Requirements (Specify)

1. Relinquished By: David Lin	Date: 1/13/11	Time: 2115	1. Received By: ~~Tobias Koehler~~ DL	Date: ~~1/13/11~~	Time: ~~1115~~
2. Relinquished By: ~~Tobias Koe~~ David Lin	Date: 1/14/11	Time: 0930	2. Received By: Jim Gr Jim Bush West 32	Date: 1/14/11	Time: 930
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: Labels accidentally have TSS on it - pls ignore. BOD + Cr VI only on all samples.

Reports to Denver

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

Rush TAT Confirmation (Initial/Date) _____

HUA0073

Sample Receipt Checklist

Client Name: Waste Management **Date/ Time Received:** 1/14/11 930

Received By: [illegible]

Matrices: AQ **Carrier:** Client **Airbill# :**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Chain of Custody present?	Yes ☑	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐	
Chain of Custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sample containers on ice?	Yes ☑	No ☐	Type: Wet
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present: ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☑
pH Adjusted?	Yes ☐	No ☑	Final pH:
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☐	No ☑	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:

Temperature Blank Present? Yes ☐ No ☑

Sample Container Temperature: 3 °C

Comments/ Sampling Handling Notes:

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID: 9.2°C BLUE ICE
Temperature on Receipt: 9.7 NOT FROZEN; 7.9; 7.7 & 8.1 1174 IRZ
Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cooler 1 of 1 Culvert

WMH 000581 01/21/2011

Client	Project Manager	Date	Chain of Custody Number
Waste Management/AECOM Tech. Svcs	Tobias Koehler	1/13/11	134139

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
1001 Bishop St. Ste 1600	808.356.5306		1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Honolulu	HI	96813	Justin Lottig	Betsy Sara

Project Name and Location (State): Waste Management WGSL 1955
Carrier/Waybill Number:
Contract/Purchase Order/Quote No.: 28002788 (Stormwater)

Analysis (Attach list if more space is needed): See Attached List for Analyses required

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analyses	Special Instructions/ Conditions of Receipt
Culvert	1/13/11	1915		X			X	X	X	X	X		Same suite of analyses for all samples	
Upcanyon	1/13/11	1750		X										
Ocean west	1/13/11	1745		X										May be salty/brack
Ocean East	1/13/11	1800		X										May be brackish
Ocean outlet	1/13/11	1815		X										

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

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 2 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other ASAP

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: David Lin	1/13/11	2115	1. Received By: Tobias Koehler	1/13/11	2115
2. Relinquished By: Tobias Koehler	1/14/11	0830	2. Received By: David Lin	1/14/11	0830
3. Relinquished By: David Lin	1/14/11	0945	3. Received By: [signature] TA Hon Custody Seals Intact Ruth Wet 4°C	1/14/11	945

Comments: Coolers contain temperature Blank. See Containers for preservatives. One label on each sample mistakenly has BOD and or VI - please ignore. Photocopy of COC in ea cooler

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[signature] 1/17/11 0830

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WGSL

Site No.:

Sample Point: Culvert

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Filter Device: Y or N 0.45 µ or ____ µ (circle or fill in)

Purging Device: —

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st						
	2nd	2nd						
	3rd	3rd						
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
011311	814						

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Light reddish brown Odor: None Color: L. Reddish Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10mph NE Outlook: clear brown Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

collected 3 aliquots at ① ~~1830~~ 1845, ② ~~1845~~ 1900, ③ 1915

Sample time 1915 (composite sample)

Flow 2.2 cfs based on output @ detention basin

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
01/13/11	Pete LaPlaca	[signature]	AECOM
01/13/11	Tobias Koehler	[signature]	AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

01/21/2011

WMH 000582

TA-3022/WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WGSL

Site No.:

Sample Point: Upconyon
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
~~011310~~ PRL					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)
Depth to Water (DTW) (from TOC) (ft)
Groundwater Elevation (site datum, from TOC) (ft/msl)
Total Well Depth (from TOC) (ft)
Stick Up (from ground elevation) (ft)
Casing ID (in)
Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st		1st					
	2nd		2nd					
	3rd		3rd					
	4th		4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
011311	846						

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Light reddish brown Odor: None Color: L. Reddish brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10mph NE Outlook: clear Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Collected 3 aliquots at ① 1720, ② 1735 & ③ 1750
Sample time 1750 (composite sample)

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
01/13/11	Pete LaPlaca	[signature]	AECOM
01/13/11	Tobias Koehler	[signature]	AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

01/21/2011
WMH 000583
TN-3029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WGSL

Site No.:

Sample Point: Ocean West
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Filter Device: Y or N 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: —
A-In-line Disposable
B-Pressure
C-Vacuum
X-Other

Sample Tube Type: —
A-Teflon
B-Stainless Steel
C-PVC
D-Polypropylene
X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)
Depth to Water (DTW) (from TOC) ____ (ft)
Groundwater Elevation (site datum, from TOC) ____ (ft/msl)
Total Well Depth (from TOC) ____ (ft)
Stick Up (from ground elevation) ____ (ft)
Casing ID ____ (in)
Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st						
	2nd	2nd						
	3rd	3rd						
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
011311	792						

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Light reddish brown
Odor: None
Color: L-Reddish-brown
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: 10 mph NE
Outlook: clear
Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Collected grab sample 200 ft west of ocean outlet along shoreline at 1745

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
01/13/11	Pete LaPlaca	[signature]	AECOM
01/13/11	Tobias Koehler	[signature]	AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

01/31/2011
WMH 000534
TAL 3029 WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WGSL

Site No.:

Sample Point: Ocean East (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —
A-In-line Disposable
B-Pressure
C-Vacuum
X-Other

Sample Tube Type: —
A-Teflon
B-Stainless Steel
C-PVC
D-Polypropylene
X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01 13 11	8.06						

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: light reddish brown **Odor:** None **Color:** L-Reddish brown **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** 10mph NE **Outlook:** clear **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

Collected grab sample 200ft east of ocean outlet along shore line at 1800

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
01/13/11	Pete LaPlace	[signature]	AECOM
01/13/11	Tobias Koehler	[signature]	AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WGSL

Site No.:

Sample Point: Ocean Outlet
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01 13 11	8 13						

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Light reddish-brown Odor: None Color: L-Reddish brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 mph NE Outlook: Clear Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Collected grab sample at ocean out let at 1815.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
01/13/11	Pete LaPlaca	[signature]	AECOM
01/13/11	Tobias Koehler	[signature]	AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Check List

Client: Waste Management

Job Number: 280-11648-1

Login Number: 11648
Creator: Bindel, Aaron M
List Number: 1

List Source: TestAmerica Denver

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	9.2, 9.7, 7.9, 7.7, 8.1
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	NO TESTS ON COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	