From: Lottig, Justin
Sent: Thursday, January 20, 2011 6:51 AM
To: 'Tanimoto, Jamie'
Subject: DOH Notice December 23 2010.pdf - Adobe Acrobat Professional

Jamie, the hardcopy of this report was just returned to us by the USPS. We will check the address on the envelope and send it out again today via certified mail. Sorry for the inconvenience.

Justin

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

WASTE MANAGEMENT

WASTE MANAGEMENT
92-460 Farrington Hwy.
Kapolei, HI 96707
(808) 668-2985
(808) 668-1366 Fax

January 10, 2010

2011 JAN 11 4:09PM

Ms. Kris Poentis, Engineering Section
State Department of Health
Environmental Management Division
Clean Water Branch
P.O. Box 3378
Honolulu, HI 96801-3378

Subject: Waimanalo Gulch Sanitary Landfill, Kapolei, Oahu, Hawaii
File No. HI R50A533

Dear Ms. Poentis:

Per Hawaii Administrative Rules (HAR) Chapter 11-55, Appendix B, this letter serves as written notification to the State Department of Health (DOH) Clean Water Branch (CWB) of a recent exceedance of storm water discharge limitations as stated in the Waimanalo Gulch Sanitary Landfill (WGSL) Notice of General Permit Coverage (NGPC), dated August 30, 2010. The sample event occurred on December 23, 2010. Laboratory analysis results indicated that iron and zinc were present in excess of State Water Quality Standards in sample water. A representative of Waste Management of Hawaii (WMH) made a verbal notification of the exceedance to the CWB on January 5, 2011. The exceedances are listed in the table below, along with the corresponding discharge limitation per the NGPC:

Table 1: WGSL Storm Water Sampling Exceedances

Parameter	Result (mg/L)	Effluent Limitation
Iron	4.5	1
Zinc	0.044	0.022

Attached for your information, are the following:

- Attachment A – Field Information Form
- Attachment B – Laboratory Data Report
- Attachment C – Discharge Monitoring Form

Discharge from the site was the result of a rainfall event spanning December 19th – 21st, 2010. No point-source of iron or zinc can readily be identified, although iron and zinc exceedances have occurred in the past. It is suspected that naturally occurring background levels in surrounding soils is the primary source of the exceedances.

A three aliquot (spaced 15 minutes apart) composite sample was collected beginning at 20:00 on December 23, 2010 at DOH CWB's direction.

From everyday collection to environmental protection, Think Green® Think Waste Management.

Printed on 100% post-consumer recycled paper.

Actions that will be implemented by WMH due to the exceedances include the following:

1. Finalize improvements to the eastern and western drainage areas. This includes diverting the up canyon storm water run on around the site.

2. Temporary erosion control measures on landfill side slopes, including erosion control matting, hydroseeding, and silt-fencing.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you should have any questions or require additional information, please contact me at (808) 668-2985.

Very truly yours,

Joseph R. Whelan

Joseph Whelan
General Manager/Vice President
Waste Management of Hawaii

Enclosures: Attachment A – Field Information Form

cc: Wayne Hamada - City and County of Honolulu
Justin Lottig - WMH
Jesse Frey – WMH
Tobias Koehler – AECOM Technical Services

Attachment A
December 23, 2010 Field Information Form

Waimanalo Gulch Southern LF

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Culvert Inlet WGS

Site No.: Culv Sample Point: Ult

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: [X] 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 _____
122310	7.75						

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: opague Odor: slightly "muddy" Color: light yellowish brown Other:

Weather Conditions (required daily, or as conditions change): partly cloudy Direction/Speed: none Outlook: Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Collected 3 aliquots @ 15 minute intervals and composited based on flow. Flow was ~0.6 cfs @ start, 0.55 cfs @ finish, added slightly more water from aliquot 1 and slightly less from aliquot 3 (20ml diff for 1L bottles 10ml diff for 0.5L Bottles). No rain @ time of collection. Will not test for ~~[illegible]~~ Cr VI and BOD b/c cannot meet hold times.

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
12/23/10	Tobias Koehler	[signature]	AECOM

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

WM (0108)

Attachment B
December 23, 2010 Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-11232-1

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.
Betsy A Sara
Project Manager II
1/5/2011 5:09 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
01/05/2011

cc: Mr. John Fong
Mr. Tom Hanneman
Mr. Tobias Koehler
Mr. Pete LaPlaca
Mr. Neil Pflum

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

WMH 000399

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CASE NARRATIVE

Client: Waste Management

Project: 995|Waimanalo Gulch LF

Report Number: 280-11232-1

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 sample was received on 12/29/2010; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.1C.

Holding Times

All holding times were met.

Method Blanks

Ammonia Method 350.1 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. The Method Blank data are included at the end of this report.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All 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 CULVERT INLET were outside control limits for Total Iron during Method 200.7 analysis because the sample concentration was greater than four times the spike amount.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Ammonia Method 350.1. 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.

Due to the result concentration exceeding the calibration range the MS/MSD results for Chloride Method 300.0 are estimated. Because the corresponding laboratory control sample and the method blank sample concentrations were within control limits, corrective action was deemed unnecessary. The Chloride MS/MSD was performed on a sample from another client.

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

Sample Duplicate

The RPD for Total Suspended Solids (TSS) Method 2540D performed on a sample from another client was outside control limits. Because all other QC and calibration criteria were met no corrective action was needed.

Organics

The Method 625 surrogate recovery of 2,4,6-Tribromophenol was below control limits in the analysis of sample CULVERT INLET.

Because the chromatograms exhibited clear evidence of matrix interference and all other quality control samples met acceptance criteria, corrective action was deemed unnecessary.

General Chemistry

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

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11232-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11232-1	**CULVERT INLET**					
Mercury		0.000049	J	0.00020	mg/L	245.1
Field pH		7.75			SU	Field Sampling
HEM		2.2	J	5.0	mg/L	1664A
Bromide		1.2		0.20	mg/L	300.0A
Chloride		160		1.3	mg/L	300.0A
Sulfate		74		5.0	mg/L	300.0A
Ammonia		0.12	B	0.10	mg/L	350.1
Nitrate Nitrite as N		0.057	J	0.10	mg/L	353.2
Phosphorus, Total		0.32	B	0.050	mg/L	365.1
Chemical Oxygen Demand		85		20	mg/L	410.4
Total Alkalinity		210		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		210		5.0	mg/L	SM 2320B
Total Suspended Solids		86		5.5	mg/L	SM 2540D
Nitrogen, Total		2.7		0.10	mg/L	Total Nitrogen
Total Recoverable						
Arsenic		0.0064	J	0.015	mg/L	200.7 Rev 4.4
Iron		4.5		0.10	mg/L	200.7 Rev 4.4
Lead		0.0048	J	0.0090	mg/L	200.7 Rev 4.4
Selenium		0.014	J	0.015	mg/L	200.7 Rev 4.4
Zinc		0.044		0.020	mg/L	200.7 Rev 4.4
Sodium		120		5.0	mg/L	200.7 Rev 4.4
Potassium		9.2		3.0	mg/L	200.7 Rev 4.4
Calcium		52		0.20	mg/L	200.7 Rev 4.4
Magnesium		27		0.20	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: Waste Management

Job Number: 280-11232-1

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	

Lab References:

TAL DEN = TestAmerica Denver

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",

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-11232-1

Method	Analyst	Analyst ID
40CFR136A 625	Tinkham, Sarah A	SAT
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	Gilbert, Bryan M	BMG
MCAWW 410.4	Derosia, Marcia R	MRD
SM SM 2320B	Derosia, Marcia R	MRD
SM SM 2540D	Gheorghe, Philip A	PAG
EPA Total Nitrogen	Elkin, David	DE

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-11232-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-11232-1	CULVERT INLET	Water	12/23/2010 2000	12/29/2010 0830

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-11232-1

Client Sample ID: **CULVERT INLET**

Lab Sample ID: 280-11232-1
Client Matrix: Water

Date Sampled: 12/23/2010 2000
Date Received: 12/29/2010 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-47794		Instrument ID:	MSS_Y
Preparation:	625	Prep Batch: 280-47221		Lab File ID:	Y7720.D
Dilution:	1.0			Initial Weight/Volume:	955.9 mL
Date Analyzed:	01/04/2011 0955			Final Weight/Volume:	1000 uL
Date Prepared:	12/29/2010 1420			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	89		36 - 120
2-Fluorophenol	62		30 - 120
2,4,6-Tribromophenol	23	X	50 - 120
Nitrobenzene-d5	93		45 - 120
Phenol-d5	75		36 - 120
Terphenyl-d14	83		52 - 120

Client: Waste Management

Job Number: 280-11232-1

Client Sample ID: **CULVERT INLET**

Lab Sample ID: 280-11232-1
Client Matrix: Water

Date Sampled: 12/23/2010 2000
Date Received: 12/29/2010 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-47511	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-47215	Lab File ID:	26b123010.asc
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/30/2010 2200		Final Weight/Volume:	50 mL
Date Prepared:	12/30/2010 0730			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0064	J	0.0044	0.015
Cadmium	ND		0.00045	0.0050
Lead	0.0048	J	0.0026	0.0090
Selenium	0.014	J	0.0049	0.015
Silver	ND		0.00093	0.010

Method:	200.7 Rev 4.4	Analysis Batch: 280-47669	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-47215	Lab File ID:	26a010311.asc
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	01/03/2011 1540		Final Weight/Volume:	50 mL
Date Prepared:	12/30/2010 0730			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Iron	4.5		0.022	0.10
Zinc	0.044		0.0045	0.020
Sodium	120		0.092	5.0
Potassium	9.2		0.24	3.0
Calcium	52		0.034	0.20
Magnesium	27		0.011	0.20

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-47488	Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-47238	Lab File ID:	101230AB.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	12/30/2010 1345		Final Weight/Volume:	10 mL
Date Prepared:	12/30/2010 1002			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.000049	J	0.000027	0.00020

General Chemistry

Client Sample ID: **CULVERT INLET**

Lab Sample ID: 280-11232-1
Client Matrix: Water

Date Sampled: 12/23/2010 2000
Date Received: 12/29/2010 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	2.2	J	mg/L	1.5	5.0	1.0	1664A
Analysis Batch: 280-47350	Date Analyzed: 12/30/2010 1054						
Prep Batch: 280-47326	Date Prepared: 12/30/2010 1054						
Bromide	1.2		mg/L	0.11	0.20	1.0	300.0A
Analysis Batch: 280-47453	Date Analyzed: 12/29/2010 1942						
Chloride	160		mg/L	1.3	1.3	5.0	300.0A
Analysis Batch: 280-47453	Date Analyzed: 12/30/2010 0011						
Sulfate	74		mg/L	1.2	5.0	5.0	300.0A
Analysis Batch: 280-47453	Date Analyzed: 12/30/2010 0011						
Ammonia	0.12	B	mg/L	0.022	0.10	1.0	350.1
Analysis Batch: 280-47438	Date Analyzed: 12/30/2010 1342						
Nitrate Nitrite as N	0.057	J	mg/L	0.019	0.10	1.0	353.2
Analysis Batch: 280-47439	Date Analyzed: 12/30/2010 1242						
Phosphorus, Total	0.32	B	mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-47684	Date Analyzed: 01/04/2011 0949						
Prep Batch: 280-47516	Date Prepared: 01/03/2011 0908						
Chemical Oxygen Demand	85		mg/L	4.1	20	1.0	410.4
Analysis Batch: 280-47457	Date Analyzed: 12/30/2010 1747						
Total Alkalinity	210		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-47279	Date Analyzed: 12/29/2010 1608						
Bicarbonate Alkalinity	210		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-47279	Date Analyzed: 12/29/2010 1608						
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-47279	Date Analyzed: 12/29/2010 1608						
Total Suspended Solids	86		mg/L	5.5	5.5	1.0	SM 2540D
Analysis Batch: 280-47277	Date Analyzed: 12/29/2010 1721						
Nitrogen, Total	2.7		mg/L	0.042	0.10	1.0	Total Nitrogen
Analysis Batch: 280-47936	Date Analyzed: 01/05/2011 1318						

Field Service / Mobile Lab

Client Sample ID: **CULVERT INLET**

Lab Sample ID: 280-11232-1

Client Matrix: Water

Date Sampled: 12/23/2010 2000

Date Received: 12/29/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.75		SU	1.0	Field Sampling	280-47214	12/24/2010 2000

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-11232-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
Metals		
	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.
	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.
	F	MS/MSD Recovery or RPD exceeds the control limits
	E	Result exceeded calibration range.
	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: 280-11232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-47221					
LCS 280-47221/2-A	Lab Control Sample	T	Water	625	
LCSD 280-47221/3-A	Lab Control Sample Duplicate	T	Water	625	
MB 280-47221/1-A	Method Blank	T	Water	625	
280-11232-1	CULVERT INLET	T	Water	625	
Analysis Batch:280-47794					
LCS 280-47221/2-A	Lab Control Sample	T	Water	625	280-47221
LCSD 280-47221/3-A	Lab Control Sample Duplicate	T	Water	625	280-47221
MB 280-47221/1-A	Method Blank	T	Water	625	280-47221
280-11232-1	CULVERT INLET	T	Water	625	280-47221

Report Basis

T = Total

Client: Waste Management

Job Number: 280-11232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-47215					
LCS 280-47215/2-A	Lab Control Sample	R	Water	200.7	
MB 280-47215/1-A	Method Blank	R	Water	200.7	
280-11232-1	CULVERT INLET	R	Water	200.7	
280-11232-1MS	Matrix Spike	R	Water	200.7	
280-11232-1MSD	Matrix Spike Duplicate	R	Water	200.7	
Prep Batch: 280-47238					
LCS 280-47238/2-A	Lab Control Sample	T	Water	245.1	
MB 280-47238/1-A	Method Blank	T	Water	245.1	
280-11219-C-2-D MS	Matrix Spike	T	Water	245.1	
280-11219-C-2-E MSD	Matrix Spike Duplicate	T	Water	245.1	
280-11232-1	CULVERT INLET	T	Water	245.1	
Analysis Batch:280-47488					
LCS 280-47238/2-A	Lab Control Sample	T	Water	245.1	280-47238
MB 280-47238/1-A	Method Blank	T	Water	245.1	280-47238
280-11219-C-2-D MS	Matrix Spike	T	Water	245.1	280-47238
280-11219-C-2-E MSD	Matrix Spike Duplicate	T	Water	245.1	280-47238
280-11232-1	CULVERT INLET	T	Water	245.1	280-47238
Analysis Batch:280-47511					
LCS 280-47215/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-47215
MB 280-47215/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-47215
280-11232-1	CULVERT INLET	R	Water	200.7 Rev 4.4	280-47215
280-11232-1MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-47215
280-11232-1MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-47215
Analysis Batch:280-47669					
LCS 280-47215/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-47215
MB 280-47215/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-47215
280-11232-1	CULVERT INLET	R	Water	200.7 Rev 4.4	280-47215
280-11232-1MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-47215
280-11232-1MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-47215

Report Basis

R = Total Recoverable

T = Total

Client: Waste Management

Job Number: 280-11232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-47214					
280-11232-1	CULVERT INLET	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-11232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-47277					
LCS 280-47277/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-47277/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-47277/1	Method Blank	T	Water	SM 2540D	
280-11218-A-1 DU	Duplicate	T	Water	SM 2540D	
280-11232-1	CULVERT INLET	T	Water	SM 2540D	
Analysis Batch:280-47279					
LCS 280-47279/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-47279/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-47279/6	Method Blank	T	Water	SM 2320B	
280-11223-A-1 DU	Duplicate	T	Water	SM 2320B	
280-11232-1	CULVERT INLET	T	Water	SM 2320B	
Prep Batch: 280-47326					
LCS 280-47326/2-A	Lab Control Sample	T	Water	1664A	
LCSD 280-47326/3-A	Lab Control Sample Duplicate	T	Water	1664A	
MB 280-47326/1-A	Method Blank	T	Water	1664A	
280-11232-1	CULVERT INLET	T	Water	1664A	
Analysis Batch:280-47350					
LCS 280-47326/2-A	Lab Control Sample	T	Water	1664A	280-47326
LCSD 280-47326/3-A	Lab Control Sample Duplicate	T	Water	1664A	280-47326
MB 280-47326/1-A	Method Blank	T	Water	1664A	280-47326
280-11232-1	CULVERT INLET	T	Water	1664A	280-47326
Analysis Batch:280-47438					
LCS 280-47438/102	Lab Control Sample	T	Water	350.1	
LCSD 280-47438/103	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-47438/101	Method Blank	T	Water	350.1	
280-10770-D-1 MS	Matrix Spike	D	Water	350.1	
280-10770-D-1 MSD	Matrix Spike Duplicate	D	Water	350.1	
280-11232-1	CULVERT INLET	T	Water	350.1	
Analysis Batch:280-47439					
LCS 280-47439/57	Lab Control Sample	T	Water	353.2	
LCSD 280-47439/58	Lab Control Sample Duplicate	T	Water	353.2	
MB 280-47439/56	Method Blank	T	Water	353.2	
280-10819-A-7 MS	Matrix Spike	T	Water	353.2	
280-10819-A-7 MSD	Matrix Spike Duplicate	T	Water	353.2	
280-11232-1	CULVERT INLET	T	Water	353.2	

Client: Waste Management

Job Number: 280-11232-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-47453					
LCS 280-47453/3	Lab Control Sample	T	Water	300.0A	
LCSD 280-47453/4	Lab Control Sample Duplicate	T	Water	300.0A	
MB 280-47453/6	Method Blank	T	Water	300.0A	
280-11222-I-1 DU	Duplicate	T	Water	300.0A	
280-11222-I-1 MS	Matrix Spike	T	Water	300.0A	
280-11222-I-1 MSD	Matrix Spike Duplicate	T	Water	300.0A	
280-11232-1	CULVERT INLET	T	Water	300.0A	
Analysis Batch:280-47457					
LCS 280-47457/3	Lab Control Sample	T	Water	410.4	
LCSD 280-47457/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-47457/5	Method Blank	T	Water	410.4	
280-10786-P-3 MS	Matrix Spike	T	Water	410.4	
280-10786-P-3 MSD	Matrix Spike Duplicate	T	Water	410.4	
280-11232-1	CULVERT INLET	T	Water	410.4	
Prep Batch: 280-47516					
LCS 280-47516/1-A	Lab Control Sample	T	Water	365.2/365.3/365	
LCSD 280-47516/2-A	Lab Control Sample Duplicate	T	Water	365.2/365.3/365	
MB 280-47516/3-A	Method Blank	T	Water	365.2/365.3/365	
280-11232-1	CULVERT INLET	T	Water	365.2/365.3/365	
280-11232-1MS	Matrix Spike	T	Water	365.2/365.3/365	
280-11232-1MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:280-47684					
LCS 280-47516/1-A	Lab Control Sample	T	Water	365.1	280-47516
LCSD 280-47516/2-A	Lab Control Sample Duplicate	T	Water	365.1	280-47516
MB 280-47516/3-A	Method Blank	T	Water	365.1	280-47516
280-11232-1	CULVERT INLET	T	Water	365.1	280-47516
280-11232-1MS	Matrix Spike	T	Water	365.1	280-47516
280-11232-1MSD	Matrix Spike Duplicate	T	Water	365.1	280-47516
Analysis Batch:280-47936					
MB 280-47936/1	Method Blank	T	Water	Total Nitrogen	
280-11232-1	CULVERT INLET	T	Water	Total Nitrogen	

Report Basis
D = Dissolved
T = Total

Client: Waste Management

Job Number: 280-11232-1

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
280-11232-1	CULVERT INLET	89	62	23X	93	75	83
MB 280-47221/1-A		87	91	100	97	95	106
LCS 280-47221/2-A		85	85	105	93	91	100
LCSD 280-47221/3-A		88	91	112	96	96	102

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: 280-11232-1

Method Blank - Batch: 280-47221

Method: 625
Preparation: 625

Lab Sample ID:	MB 280-47221/1-A	Analysis Batch:	280-47794	Instrument ID:	MSS_Y
Client Matrix:	Water	Prep Batch:	280-47221	Lab File ID:	Y7690.D
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	01/03/2011 2047			Final Weight/Volume:	1000 uL
Date Prepared:	12/29/2010 1420			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	87	36 - 120
2-Fluorophenol	91	30 - 120
2,4,6-Tribromophenol	100	50 - 120
Nitrobenzene-d5	97	45 - 120
Phenol-d5	95	36 - 120
Terphenyl-d14	106	52 - 120

Client: Waste Management

Job Number: 280-11232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-47221

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-47221/2-A	Analysis Batch: 280-47794	Instrument ID: MSS_Y
Client Matrix:	Water	Prep Batch: 280-47221	Lab File ID: Y7691.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/03/2011 2107		Final Weight/Volume: 1000 uL
Date Prepared:	12/29/2010 1420		Injection Volume: 0.5 uL

LCSD Lab Sample ID:	LCSD 280-47221/3-A	Analysis Batch: 280-47794	Instrument ID: MSS_Y
Client Matrix:	Water	Prep Batch: 280-47221	Lab File ID: Y7692.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/03/2011 2126		Final Weight/Volume: 1000 uL
Date Prepared:	12/29/2010 1420		Injection Volume: 0.5 uL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	87	89	47 - 120	2	30		
Acenaphthylene	92	92	33 - 120	0	30		
Anthracene	95	97	52 - 120	2	30		
Benzidine	90	96	10 - 218	7	50		
Benzo[a]anthracene	95	97	54 - 120	3	30		
Benzo[b]fluoranthene	93	102	51 - 120	10	90		
Benzo[k]fluoranthene	99	99	49 - 120	0	50		
Benzo[a]pyrene	86	91	39 - 120	5	73		
Bis(2-chloroethoxy)methane	90	92	50 - 120	3	30		
Bis(2-chloroethyl)ether	86	91	35 - 120	5	30		
Bis(2-ethylhexyl) phthalate	99	103	56 - 120	5	30		
4-Bromophenyl phenyl ether	94	97	53 - 120	3	34		
Butyl benzyl phthalate	100	104	53 - 120	4	30		
4-Chloro-3-methylphenol	99	101	57 - 120	3	30		
2-Chloronaphthalene	86	85	60 - 118	1	30		
2-Chlorophenol	87	93	34 - 120	6	30		
4-Chlorophenyl phenyl ether	92	96	51 - 120	4	30		
Chrysene	94	99	51 - 120	5	30		
Dibenz(a,h)anthracene	98	104	45 - 120	6	78		
Di-n-butyl phthalate	101	104	57 - 118	3	30		
1,2-Dichlorobenzene	79	76	32 - 120	4	42		
1,3-Dichlorobenzene	75	75	23 - 120	0	47		
1,4-Dichlorobenzene	77	75	24 - 120	2	49		
3,3'-Dichlorobenzidine	65	69	18 - 120	5	50		
2,4-Dichlorophenol	92	96	46 - 120	4	30		
Diethyl phthalate	99	106	59 - 114	6	30		
2,4-Dimethylphenol	84	87	44 - 119	4	35		
Dimethyl phthalate	96	104	58 - 112	8	30		
4,6-Dinitro-2-methylphenol	96	99	40 - 120	3	55		
2,4-Dinitrophenol	93	101	20 - 121	8	61		
2,4-Dinitrotoluene	99	108	57 - 120	8	35		
2,6-Dinitrotoluene	94	101	56 - 120	7	30		
Di-n-octyl phthalate	94	97	56 - 120	4	30		
Fluoranthene	101	105	58 - 120	4	30		

Client: Waste Management

Job Number: 280-11232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-47221

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-47221/2-A	Analysis Batch: 280-47794	Instrument ID: MSS_Y
Client Matrix:	Water	Prep Batch: 280-47221	Lab File ID: Y7691.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/03/2011 2107		Final Weight/Volume: 1000 uL
Date Prepared:	12/29/2010 1420		Injection Volume: 0.5 uL

LCSD Lab Sample ID:	LCSD 280-47221/3-A	Analysis Batch: 280-47794	Instrument ID: MSS_Y
Client Matrix:	Water	Prep Batch: 280-47221	Lab File ID: Y7692.D
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	01/03/2011 2126		Final Weight/Volume: 1000 uL
Date Prepared:	12/29/2010 1420		Injection Volume: 0.5 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Fluorene	92	96	59 - 120	5	30		
Hexachlorobenzene	94	96	53 - 120	3	30		
Hexachlorobutadiene	77	75	27 - 116	2	41		
Hexachlorocyclopentadiene	33	32	10 - 120	1	82	J	J
Hexachloroethane	75	76	40 - 113	0	52		
Indeno[1,2,3-cd]pyrene	97	101	50 - 120	4	73		
Isophorone	93	96	50 - 120	3	30		
p-Cresol	92	96	42 - 120	4	39		
Naphthalene	82	78	37 - 120	4	30		
Nitrobenzene	92	96	46 - 120	4	30		
2-Nitrophenol	94	96	47 - 120	2	30		
4-Nitrophenol	102	112	53 - 120	9	42		
N-Nitrosodimethylamine	86	92	37 - 120	7	30		
N-Nitrosodiphenylamine	87	92	46 - 203	5	50		
N-Nitrosodi-n-propylamine	95	98	50 - 120	3	30		
Pentachlorophenol	94	100	46 - 120	6	30		
Phenanthrene	93	97	54 - 120	4	30		
Phenol	90	96	37 - 112	6	30		
Pyrene	97	100	55 - 115	3	30		
1,2,4-Trichlorobenzene	73	71	44 - 120	2	35		
2,4,6-Trichlorophenol	95	98	51 - 120	3	30		
2-Methylphenol	91	94	38 - 120	4	35		
Benzo[g,h,i]perylene	96	101	48 - 120	5	64		
2,2'-Oxybis(1-chloropropane)	85	86	37 - 120	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	85	88	36 - 120
2-Fluorophenol	85	91	30 - 120
2,4,6-Tribromophenol	105	112	50 - 120
Nitrobenzene-d5	93	96	45 - 120
Phenol-d5	91	96	36 - 120
Terphenyl-d14	100	102	52 - 120

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47221

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-47221/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47221/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/03/2011 2107			Date Analyzed:	01/03/2011 2126
Date Prepared:	12/29/2010 1420			Date Prepared:	12/29/2010 1420

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Acenaphthene	0.0800	0.0800	0.0693		0.0710	
Acenaphthylene	0.0800	0.0800	0.0732		0.0733	
Anthracene	0.0800	0.0800	0.0758		0.0776	
Benzidine	0.200	0.200	0.180		0.192	
Benzo[a]anthracene	0.0800	0.0800	0.0758		0.0779	
Benzo[b]fluoranthene	0.0800	0.0800	0.0742		0.0819	
Benzo[k]fluoranthene	0.0800	0.0800	0.0792		0.0789	
Benzo[a]pyrene	0.0800	0.0800	0.0691		0.0729	
Bis(2-chloroethoxy)methane	0.0800	0.0800	0.0717		0.0738	
Bis(2-chloroethyl)ether	0.0800	0.0800	0.0692		0.0730	
Bis(2-ethylhexyl) phthalate	0.0800	0.0800	0.0788		0.0825	
4-Bromophenyl phenyl ether	0.0800	0.0800	0.0752		0.0777	
Butyl benzyl phthalate	0.0800	0.0800	0.0803		0.0835	
4-Chloro-3-methylphenol	0.0800	0.0800	0.0789		0.0811	
2-Chloronaphthalene	0.0800	0.0800	0.0686		0.0678	
2-Chlorophenol	0.0800	0.0800	0.0700		0.0744	
4-Chlorophenyl phenyl ether	0.0800	0.0800	0.0733		0.0765	
Chrysene	0.0800	0.0800	0.0752		0.0788	
Dibenz(a,h)anthracene	0.0800	0.0800	0.0783		0.0835	
Di-n-butyl phthalate	0.0800	0.0800	0.0808		0.0834	
1,2-Dichlorobenzene	0.0800	0.0800	0.0630		0.0609	
1,3-Dichlorobenzene	0.0800	0.0800	0.0602		0.0599	
1,4-Dichlorobenzene	0.0800	0.0800	0.0613		0.0599	
3,3'-Dichlorobenzidine	0.0800	0.0800	0.0522		0.0549	
2,4-Dichlorophenol	0.0800	0.0800	0.0737		0.0764	
Diethyl phthalate	0.0800	0.0800	0.0794		0.0844	
2,4-Dimethylphenol	0.0800	0.0800	0.0673		0.0698	
Dimethyl phthalate	0.0800	0.0800	0.0766		0.0829	
4,6-Dinitro-2-methylphenol	0.0800	0.0800	0.0768		0.0792	
2,4-Dinitrophenol	0.0800	0.0800	0.0741		0.0806	
2,4-Dinitrotoluene	0.0800	0.0800	0.0796		0.0862	
2,6-Dinitrotoluene	0.0800	0.0800	0.0756		0.0808	
Di-n-octyl phthalate	0.0800	0.0800	0.0748		0.0778	
Fluoranthene	0.0800	0.0800	0.0807		0.0838	
Fluorene	0.0800	0.0800	0.0733		0.0769	
Hexachlorobenzene	0.0800	0.0800	0.0748		0.0770	
Hexachlorobutadiene	0.0800	0.0800	0.0615		0.0603	
Hexachlorocyclopentadiene	0.0800	0.0800	0.0262	J	0.0259	J
Hexachloroethane	0.0800	0.0800	0.0603		0.0605	
Indeno[1,2,3-cd]pyrene	0.0800	0.0800	0.0779		0.0812	
Isophorone	0.0800	0.0800	0.0747		0.0772	

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47221

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-47221/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47221/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/03/2011 2107			Date Analyzed:	01/03/2011 2126
Date Prepared:	12/29/2010 1420			Date Prepared:	12/29/2010 1420

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
p-Cresol	0.160	0.160	0.146	0.153
Naphthalene	0.0800	0.0800	0.0652	0.0628
Nitrobenzene	0.0800	0.0800	0.0736	0.0764
2-Nitrophenol	0.0800	0.0800	0.0754	0.0769
4-Nitrophenol	0.0800	0.0800	0.0820	0.0895
N-Nitrosodimethylamine	0.0800	0.0800	0.0692	0.0740
N-Nitrosodiphenylamine	0.0683	0.0683	0.0596	0.0630
N-Nitrosodi-n-propylamine	0.0800	0.0800	0.0759	0.0780
Pentachlorophenol	0.0800	0.0800	0.0753	0.0799
Phenanthrene	0.0800	0.0800	0.0747	0.0776
Phenol	0.0800	0.0800	0.0722	0.0770
Pyrene	0.0800	0.0800	0.0778	0.0804
1,2,4-Trichlorobenzene	0.0800	0.0800	0.0585	0.0572
2,4,6-Trichlorophenol	0.0800	0.0800	0.0758	0.0780
2-Methylphenol	0.0800	0.0800	0.0726	0.0753
Benzo[g,h,i]perylene	0.0800	0.0800	0.0770	0.0809
2,2'-Oxybis(1-chloropropane)	0.0800	0.0800	0.0683	0.0692

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: MB 280-47215/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 2155
Date Prepared: 12/30/2010 0730

Analysis Batch: 280-47511
Prep Batch: 280-47215
Units: mg/L

Instrument ID: MT_026
Lab File ID: 26b123010.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
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Silver	ND		0.00093	0.010

Method Blank - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: MB 280-47215/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/03/2011 1536
Date Prepared: 12/30/2010 0730

Analysis Batch: 280-47669
Prep Batch: 280-47215
Units: mg/L

Instrument ID: MT_026
Lab File ID: 26a010311.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Iron	ND		0.022	0.10
Zinc	ND		0.0045	0.020
Sodium	ND		0.092	5.0
Potassium	ND		0.24	3.0
Calcium	ND		0.034	0.20
Magnesium	ND		0.011	0.20

Client: Waste Management

Job Number: 280-11232-1

Lab Control Sample - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: LCS 280-47215/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 2157
Date Prepared: 12/30/2010 0730

Analysis Batch: 280-47511
Prep Batch: 280-47215
Units: mg/L

Instrument ID: MT_026
Lab File ID: 26b123010.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	1.04	104	88 - 110	
Cadmium	0.100	0.104	104	88 - 111	
Lead	0.500	0.520	104	89 - 110	
Selenium	2.00	2.17	108	85 - 112	
Silver	0.0500	0.0487	97	85 - 115	

Lab Control Sample - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: LCS 280-47215/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/03/2011 1538
Date Prepared: 12/30/2010 0730

Analysis Batch: 280-47669
Prep Batch: 280-47215
Units: mg/L

Instrument ID: MT_026
Lab File ID: 26a010311.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	0.966	97	89 - 115	
Zinc	0.500	0.531	106	85 - 111	
Sodium	50.0	52.7	105	90 - 115	
Potassium	50.0	53.0	106	89 - 114	
Calcium	50.0	49.3	99	90 - 111	
Magnesium	50.0	52.2	104	90 - 113	

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11232-1	Analysis Batch: 280-47511	Instrument ID: MT_026
Client Matrix:	Water	Prep Batch: 280-47215	Lab File ID: 26b123010.asc
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/30/2010 2204		Final Weight/Volume: 50 mL
Date Prepared:	12/30/2010 0730		

MSD Lab Sample ID:	280-11232-1	Analysis Batch: 280-47511	Instrument ID: MT_026
Client Matrix:	Water	Prep Batch: 280-47215	Lab File ID: 26b123010.asc
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/30/2010 2206		Final Weight/Volume: 50 mL
Date Prepared:	12/30/2010 0730		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	107	105	88 - 110	2	20		
Cadmium	105	103	88 - 111	2	20		
Lead	104	102	89 - 110	2	20		
Selenium	107	106	85 - 112	1	20		
Silver	99	96	85 - 115	3	20		

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11232-1	Analysis Batch:	280-47669	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-47215	Lab File ID:	26a010311.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/03/2011 1550			Final Weight/Volume:	50 mL
Date Prepared:	12/30/2010 0730				

MSD Lab Sample ID:	280-11232-1	Analysis Batch:	280-47669	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-47215	Lab File ID:	26a010311.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/03/2011 1553			Final Weight/Volume:	50 mL
Date Prepared:	12/30/2010 0730				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	181	169	89 - 115	2	20	4	4
Zinc	108	106	85 - 111	2	20		
Sodium	109	102	90 - 115	2	20		
Potassium	111	108	89 - 114	3	20		
Calcium	99	95	90 - 111	2	20		
Magnesium	105	102	90 - 113	2	20		

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11232-1	Units: mg/L	MSD Lab Sample ID:	280-11232-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/30/2010 2204		Date Analyzed:	12/30/2010 2206
Date Prepared:	12/30/2010 0730		Date Prepared:	12/30/2010 0730

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	0.0064	J	1.00	1.00	1.08	1.05
Cadmium	ND		0.100	0.100	0.105	0.103
Lead	0.0048	J	0.500	0.500	0.527	0.514
Selenium	0.014	J	2.00	2.00	2.16	2.14
Silver	ND		0.0500	0.0500	0.0495	0.0480

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47215

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

MS Lab Sample ID:	280-11232-1	Units: mg/L	MSD Lab Sample ID:	280-11232-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/03/2011 1550		Date Analyzed:	01/03/2011 1553
Date Prepared:	12/30/2010 0730		Date Prepared:	12/30/2010 0730

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Iron	4.5	1.00	1.00	6.36	4	6.23	4
Zinc	0.044	0.500	0.500	0.584		0.572	
Sodium	120	50.0	50.0	173		170	
Potassium	9.2	50.0	50.0	64.8		63.2	
Calcium	52	50.0	50.0	101		99.5	
Magnesium	27	50.0	50.0	79.8		78.2	

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47238

Method: 245.1
Preparation: 245.1

Lab Sample ID:	MB 280-47238/1-A	Analysis Batch:	280-47488	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-47238	Lab File ID:	101230AB.txt
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	10 mL
Date Analyzed:	12/30/2010 1340			Final Weight/Volume:	10 mL
Date Prepared:	12/30/2010 1002				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.000027	0.00020

Lab Control Sample - Batch: 280-47238

Method: 245.1
Preparation: 245.1

Lab Sample ID:	LCS 280-47238/2-A	Analysis Batch:	280-47488	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-47238	Lab File ID:	101230AB.txt
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	10 mL
Date Analyzed:	12/30/2010 1342			Final Weight/Volume:	10 mL
Date Prepared:	12/30/2010 1002				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00479	96	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47238

Method: 245.1
Preparation: 245.1

MS Lab Sample ID:	280-11219-C-2-D MS	Analysis Batch:	280-47488	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-47238	Lab File ID:	101230AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/30/2010 1354			Final Weight/Volume:	10 mL
Date Prepared:	12/30/2010 1002				

MSD Lab Sample ID:	280-11219-C-2-E MSD	Analysis Batch:	280-47488	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-47238	Lab File ID:	101230AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/30/2010 1356			Final Weight/Volume:	10 mL
Date Prepared:	12/30/2010 1002				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	87	90	80 - 120	3	10		

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47238

Method: 245.1
Preparation: 245.1

MS Lab Sample ID:	280-11219-C-2-D MS	Units: mg/L	MSD Lab Sample ID:	280-11219-C-2-E MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/30/2010 1354		Date Analyzed:	12/30/2010 1356
Date Prepared:	12/30/2010 1002		Date Prepared:	12/30/2010 1002

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.000047	J	0.00500	0.00500	0.00439	0.00454

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47326

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 280-47326/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1054
Date Prepared: 12/30/2010 1054

Analysis Batch: 280-47350
Prep Batch: 280-47326
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: 280-47326

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID: LCS 280-47326/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1054
Date Prepared: 12/30/2010 1054

Analysis Batch: 280-47350
Prep Batch: 280-47326
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 280-47326/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1054
Date Prepared: 12/30/2010 1054

Analysis Batch: 280-47350
Prep Batch: 280-47326
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	87	81	81 - 107	7	22		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47326

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID:	LCS 280-47326/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47326/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/30/2010 1054			Date Analyzed:	12/30/2010 1054
Date Prepared:	12/30/2010 1054			Date Prepared:	12/30/2010 1054

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
HEM	40.0	40.0	34.8	32.4

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47453

Method: 300.0A
Preparation: N/A

Lab Sample ID: MB 280-47453/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1306
Date Prepared: N/A

Analysis Batch: 280-47453
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
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	ND		0.23	5.0

Method Reporting Limit Check - Batch: 280-47453

Method: 300.0A
Preparation: N/A

Lab Sample ID: MRL 280-47453/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1249
Date Prepared: N/A

Analysis Batch: 280-47453
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	0.220	110	50 - 150	
Chloride	1.00	1.03	103	50 - 150	J
Sulfate	1.00	1.27	127	50 - 150	J

Client: Waste Management

Job Number: 280-11232-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-47453

Method: 300.0A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47453/3	Analysis Batch:	280-47453	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	12/29/2010 1102			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

LCSD Lab Sample ID:	LCSD 280-47453/4	Analysis Batch:	280-47453	Instrument ID:	WC_IC8
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:	12/29/2010 1232			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Bromide	100	103	90 - 110	4	10		
Chloride	100	98	90 - 110	2	10		
Sulfate	100	102	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47453

Method: 300.0A
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47453/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47453/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/29/2010 1102			Date Analyzed:	12/29/2010 1232
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	4.98	5.17
Chloride	25.0	25.0	25.1	24.6
Sulfate	25.0	25.0	25.1	25.4

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47453

Method: 300.0A
Preparation: N/A

MS Lab Sample ID:	280-11222-I-1 MS	Analysis Batch: 280-47453	Instrument ID: WC_IC8
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 118.TXT
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	12/29/2010 1356		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-11222-I-1 MSD	Analysis Batch: 280-47453	Instrument ID: WC_IC8
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 119.TXT
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	12/29/2010 1413		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

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

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47453

Method: 300.0A
Preparation: N/A

MS Lab Sample ID:	280-11222-I-1 MS	Analysis Batch: 280-47453	Instrument ID: WC_IC8
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 123.TXT
Dilution:	5.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	12/29/2010 1649		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-11222-I-1 MSD	Analysis Batch: 280-47453	Instrument ID: WC_IC8
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 124.TXT
Dilution:	5.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	12/29/2010 1706		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

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

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47453

Method: 300.0A
Preparation: N/A

MS Lab Sample ID:	280-11222-I-1 MS	Units: mg/L	MSD Lab Sample ID:	280-11222-I-1 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/29/2010 1356		Date Analyzed:	12/29/2010 1413
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	0.65	5.00	5.00	5.84	5.89

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47453

Method: 300.0A
Preparation: N/A

MS Lab Sample ID:	280-11222-I-1 MS	Units: mg/L	MSD Lab Sample ID:	280-11222-I-1 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	5.0		Dilution:	5.0
Date Analyzed:	12/29/2010 1649		Date Analyzed:	12/29/2010 1706
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chloride	150	125	125	278	E	276	E
Sulfate	59	125	125	188		188	

Client: Waste Management

Job Number: 280-11232-1

Duplicate - Batch: 280-47453

Method: 300.0A
Preparation: N/A

Lab Sample ID: 280-11222-I-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1340
Date Prepared: N/A

Analysis Batch: 280-47453
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 118.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	0.65	0.647	0.5	15	

Duplicate - Batch: 280-47453

Method: 300.0A
Preparation: N/A

Lab Sample ID: 280-11222-I-1 DU
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 12/29/2010 1633
Date Prepared: N/A

Analysis Batch: 280-47453
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 122.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	150	146	0.6	15	
Sulfate	59	58.0	1	15	

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47438

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 280-47438/101
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1320
Date Prepared: N/A

Analysis Batch: 280-47438
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\1230NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Ammonia	0.0421	J	0.022	0.10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-47438

Method: 350.1
Preparation: N/A

LCS Lab Sample ID: LCS 280-47438/102
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1321
Date Prepared: N/A

Analysis Batch: 280-47438
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\1230NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-47438/103
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1323
Date Prepared: N/A

Analysis Batch: 280-47438
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\1230NXN.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	102	102	90 - 110	0	10		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47438

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47438/102	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47438/103
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/30/2010 1321			Date Analyzed:	12/30/2010 1323
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	5.10	5.08

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47438

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-10770-D-1 MS	Analysis Batch: 280-47438	Instrument ID: WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: C:\FLOW_4\1230NXN.RST
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/30/2010 1326		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-10770-D-1 MSD	Analysis Batch: 280-47438	Instrument ID: WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: C:\FLOW_4\1230NXN.RST
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/30/2010 1327		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia	69	70	90 - 110	1	20	F	F

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47438

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-10770-D-1 MS	Units: mg/L	MSD Lab Sample ID:	280-10770-D-1 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/30/2010 1326		Date Analyzed:	12/30/2010 1327
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	0.11	4.00	4.00	2.88	F	2.92	F

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47439

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 280-47439/56
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1212
Date Prepared: N/A

Analysis Batch: 280-47439
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\1230NXN.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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-47439

Method: 353.2
Preparation: N/A

LCS Lab Sample ID: LCS 280-47439/57
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1214
Date Prepared: N/A

Analysis Batch: 280-47439
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\1230NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-47439/58
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1215
Date Prepared: N/A

Analysis Batch: 280-47439
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\1230NXN.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	106	105	90 - 110	1	10		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47439

Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47439/57	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47439/58
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/30/2010 1214			Date Analyzed:	12/30/2010 1215
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	5.29	5.26

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47439

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	280-10819-A-7 MS	Analysis Batch: 280-47439	Instrument ID: WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: C:\FLOW_4\1230NXN.RST
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/30/2010 1218		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-10819-A-7 MSD	Analysis Batch: 280-47439	Instrument ID: WC_Alp 2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: C:\FLOW_4\1230NXN.RST
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/30/2010 1229		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	105	107	72 - 113	2	17		

Quality Control Results

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47439

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	280-10819-A-7 MS	Units: mg/L	MSD Lab Sample ID:	280-10819-A-7 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/30/2010 1218		Date Analyzed:	12/30/2010 1229
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	0.053	J	4.00	4.00	4.25	4.35

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47516

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-47516/3-A	Analysis Batch:	280-47684	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-47516	Lab File ID:	010411TPHOS2.xls
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	01/04/2011 0949			Final Weight/Volume:	50 mL
Date Prepared:	01/03/2011 0908				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	0.0104	J	0.0050	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-47516

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-47516/1-A	Analysis Batch:	280-47684	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-47516	Lab File ID:	010411TPHOS2.xls
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	01/04/2011 0949			Final Weight/Volume:	50 mL
Date Prepared:	01/03/2011 0908				

LCSD Lab Sample ID:	LCSD 280-47516/2-A	Analysis Batch:	280-47684	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-47516	Lab File ID:	010411TPHOS2.xls
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	01/04/2011 0949			Final Weight/Volume:	50 mL
Date Prepared:	01/03/2011 0908				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phosphorus, Total	101	102	90 - 110	1	10		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47516

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-47516/1-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47516/2-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	01/04/2011 0949			Date Analyzed:	01/04/2011 0949
Date Prepared:	01/03/2011 0908			Date Prepared:	01/03/2011 0908

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.505	0.509

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47516

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-11232-1	Analysis Batch: 280-47684	Instrument ID: WC_Konelab
Client Matrix:	Water	Prep Batch: 280-47516	Lab File ID: 010411TPHOS2.xls
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	01/04/2011 0949		Final Weight/Volume: 50 mL
Date Prepared:	01/03/2011 0908		

MSD Lab Sample ID:	280-11232-1	Analysis Batch: 280-47684	Instrument ID: WC_Konelab
Client Matrix:	Water	Prep Batch: 280-47516	Lab File ID: 010411TPHOS2.xls
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	01/04/2011 0949		Final Weight/Volume: 50 mL
Date Prepared:	01/03/2011 0908		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phosphorus, Total	93	95	71 - 128	1	22		

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47516

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-11232-1	Units: mg/L	MSD Lab Sample ID:	280-11232-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	01/04/2011 0949		Date Analyzed:	01/04/2011 0949
Date Prepared:	01/03/2011 0908		Date Prepared:	01/03/2011 0908

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Phosphorus, Total	0.32	0.500	0.500	0.787	0.796

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47457

Method: 410.4
Preparation: N/A

Lab Sample ID: MB 280-47457/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1747
Date Prepared: N/A

Analysis Batch: 280-47457
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: 280-47457

Method: 410.4
Preparation: N/A

LCS Lab Sample ID: LCS 280-47457/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1747
Date Prepared: N/A

Analysis Batch: 280-47457
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 280-47457/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/30/2010 1747
Date Prepared: N/A

Analysis Batch: 280-47457
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	95	101	90 - 110	6	11		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47457

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47457/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47457/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/30/2010 1747			Date Analyzed:	12/30/2010 1747
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	95.1	101

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47457

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-10786-P-3 MS	Analysis Batch:	280-47457	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:	12/30/2010 1747			Final Weight/Volume:	100 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-10786-P-3 MSD	Analysis Batch:	280-47457	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:	12/30/2010 1747			Final Weight/Volume:	100 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	96	100	90 - 110	4	11		

Client: Waste Management

Job Number: 280-11232-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-47457

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-10786-P-3 MS	Units: mg/L	MSD Lab Sample ID:	280-10786-P-3 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/30/2010 1747		Date Analyzed:	12/30/2010 1747
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	6.4	J	50.0	50.0	54.4	56.5

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47279

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 280-47279/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1600
Date Prepared: N/A

Analysis Batch: 280-47279
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 122910.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: 280-47279

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID: LCS 280-47279/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1542
Date Prepared: N/A

Analysis Batch: 280-47279
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 122910.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-47279/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1552
Date Prepared: N/A

Analysis Batch: 280-47279
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 122910.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	102	102	90 - 110	0	10		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47279

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47279/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47279/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/29/2010 1542			Date Analyzed:	12/29/2010 1552
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	204	204

Duplicate - Batch: 280-47279

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-11223-A-1 DU	Analysis Batch:	280-47279	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122910.txt
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	12/29/2010 1619			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	160	161	0.6	10	

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47277

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 280-47277/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1721
Date Prepared: N/A

Analysis Batch: 280-47277
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: 280-47277

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 280-47277/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1721
Date Prepared: N/A

Analysis Batch: 280-47277
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 280-47277/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/29/2010 1721
Date Prepared: N/A

Analysis Batch: 280-47277
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	86	96	86 - 114	11	20		

Client: Waste Management

Job Number: 280-11232-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-47277

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-47277/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-47277/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	12/29/2010 1721			Date Analyzed:	12/29/2010 1721
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	86.0	96.0

Duplicate - Batch: 280-47277

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-11218-A-1 DU	Analysis Batch:	280-47277	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:	250 mL
Date Analyzed:	12/29/2010 1721			Final Weight/Volume:	250 mL
Date Prepared:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Total Suspended Solids	2.8	J	2.40	15	10	J

Client: Waste Management

Job Number: 280-11232-1

Method Blank - Batch: 280-47936

Method: Total Nitrogen
Preparation: N/A

Lab Sample ID:	MB 280-47936/1	Analysis Batch:	280-47936	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:	
Date Analyzed:	01/05/2011 1318			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrogen, Total	ND		0.042	0.10

Client: Waste Management

Job Number: 280-11232-1

Laboratory Chronicle

Lab ID: 280-11232-1 **Client ID:** CULVERT INLET

Sample Date/Time: 12/23/2010 20:00 Received Date/Time: 12/29/2010 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11232-A-1-A		280-47794	280-47221	12/29/2010 14:20	1	TAL DEN	DFB
A:625	280-11232-A-1-A		280-47794	280-47221	01/04/2011 09:55	1	TAL DEN	SAT
P:200.7	280-11232-H-1-A		280-47511	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11232-H-1-A		280-47511	280-47215	12/30/2010 22:00	1	TAL DEN	HEB
P:200.7	280-11232-H-1-A		280-47669	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11232-H-1-A		280-47669	280-47215	01/03/2011 15:40	1	TAL DEN	HEB
P:245.1	280-11232-H-1-D		280-47488	280-47238	12/30/2010 10:02	1	TAL DEN	KS
A:245.1	280-11232-H-1-D		280-47488	280-47238	12/30/2010 13:45	1	TAL DEN	KS
P:1664A	280-11232-D-1-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:1664A	280-11232-D-1-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:300.0A	280-11232-E-1		280-47453		12/29/2010 19:42	1	TAL DEN	TLP
A:300.0A	280-11232-E-1		280-47453		12/30/2010 00:11	5	TAL DEN	TLP
A:350.1	280-11232-G-1		280-47438		12/30/2010 13:42	1	TAL DEN	LES
A:353.2	280-11232-G-1		280-47439		12/30/2010 12:42	1	TAL DEN	LES
P:365.2/365.3/365	280-11232-F-1-A		280-47684	280-47516	01/03/2011 09:08	1	TAL DEN	BMG
A:365.1	280-11232-F-1-A		280-47684	280-47516	01/04/2011 09:49	1	TAL DEN	BMG
A:410.4	280-11232-F-1		280-47457		12/30/2010 17:47	1	TAL DEN	MRD
A:SM 2320B	280-11232-E-1		280-47279		12/29/2010 16:08	1	TAL DEN	MRD
A:SM 2540D	280-11232-E-1		280-47277		12/29/2010 17:21	1	TAL DEN	PAG
A:Total Nitrogen	280-11232-A-1		280-47936		01/05/2011 13:18	1	TAL DEN	DE
A:Field Sampling	280-11232-A-1		280-47214		12/24/2010 20:00	1	TAL DEN	FS

Lab ID: 280-11232-1 MS **Client ID:** CULVERT INLET

Sample Date/Time: 12/23/2010 20:00 Received Date/Time: 12/29/2010 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11232-H-1-B MS		280-47511	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11232-H-1-B MS		280-47511	280-47215	12/30/2010 22:04	1	TAL DEN	HEB
P:200.7	280-11232-H-1-B MS		280-47669	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11232-H-1-B MS		280-47669	280-47215	01/03/2011 15:50	1	TAL DEN	HEB
P:365.2/365.3/365	280-11232-F-1-B MS		280-47684	280-47516	01/03/2011 09:08	1	TAL DEN	BMG
A:365.1	280-11232-F-1-B MS		280-47684	280-47516	01/04/2011 09:49	1	TAL DEN	BMG

Client: Waste Management

Job Number: 280-11232-1

Laboratory Chronicle

Lab ID: **280-11232-1 MSD** **Client ID:** **CULVERT INLET**

Sample Date/Time: 12/23/2010 20:00 Received Date/Time: 12/29/2010 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11232-H-1-C MSD		280-47511	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11232-H-1-C MSD		280-47511	280-47215	12/30/2010 22:06	1	TAL DEN	HEB
P:200.7	280-11232-H-1-C MSD		280-47669	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11232-H-1-C MSD		280-47669	280-47215	01/03/2011 15:53	1	TAL DEN	HEB
P:365.2/365.3/365	280-11232-F-1-C MSD		280-47684	280-47516	01/03/2011 09:08	1	TAL DEN	BMG
A:365.1	280-11232-F-1-C MSD		280-47684	280-47516	01/04/2011 09:49	1	TAL DEN	BMG

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 280-47221/1-A		280-47794	280-47221	12/29/2010 14:20	1	TAL DEN	DFB
A:625	MB 280-47221/1-A		280-47794	280-47221	01/03/2011 20:47	1	TAL DEN	SAT
P:200.7	MB 280-47215/1-A		280-47511	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	MB 280-47215/1-A		280-47511	280-47215	12/30/2010 21:55	1	TAL DEN	HEB
P:200.7	MB 280-47215/1-A		280-47669	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	MB 280-47215/1-A		280-47669	280-47215	01/03/2011 15:36	1	TAL DEN	HEB
P:245.1	MB 280-47238/1-A		280-47488	280-47238	12/30/2010 10:02	1	TAL DEN	KS
A:245.1	MB 280-47238/1-A		280-47488	280-47238	12/30/2010 13:40	1	TAL DEN	KS
P:1664A	MB 280-47326/1-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:1664A	MB 280-47326/1-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:300.0A	MB 280-47453/6		280-47453		12/29/2010 13:06	1	TAL DEN	TLP
A:350.1	MB 280-47438/101		280-47438		12/30/2010 13:20	1	TAL DEN	LES
A:353.2	MB 280-47439/56		280-47439		12/30/2010 12:12	1	TAL DEN	LES
P:365.2/365.3/365	MB 280-47516/3-A		280-47684	280-47516	01/03/2011 09:08	1	TAL DEN	BMG
A:365.1	MB 280-47516/3-A		280-47684	280-47516	01/04/2011 09:49	1	TAL DEN	BMG
A:410.4	MB 280-47457/5		280-47457		12/30/2010 17:47	1	TAL DEN	MRD
A:SM 2320B	MB 280-47279/6		280-47279		12/29/2010 16:00	1	TAL DEN	MRD
A:SM 2540D	MB 280-47277/1		280-47277		12/29/2010 17:21	1	TAL DEN	PAG
A:Total Nitrogen	MB 280-47936/1		280-47936		01/05/2011 13:18	1	TAL DEN	DE

Client: Waste Management

Job Number: 280-11232-1

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 280-47221/2-A		280-47794	280-47221	12/29/2010 14:20	1	TAL DEN	DFB
A:625	LCS 280-47221/2-A		280-47794	280-47221	01/03/2011 21:07	1	TAL DEN	SAT
P:200.7	LCS 280-47215/2-A		280-47511	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	LCS 280-47215/2-A		280-47511	280-47215	12/30/2010 21:57	1	TAL DEN	HEB
P:200.7	LCS 280-47215/2-A		280-47669	280-47215	12/30/2010 07:30	1	TAL DEN	KMN
A:200.7 Rev 4.4	LCS 280-47215/2-A		280-47669	280-47215	01/03/2011 15:38	1	TAL DEN	HEB
P:245.1	LCS 280-47238/2-A		280-47488	280-47238	12/30/2010 10:02	1	TAL DEN	KS
A:245.1	LCS 280-47238/2-A		280-47488	280-47238	12/30/2010 13:42	1	TAL DEN	KS
P:1664A	LCS 280-47326/2-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:1664A	LCS 280-47326/2-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:300.0A	LCS 280-47453/3		280-47453		12/29/2010 11:02	1	TAL DEN	TLP
A:350.1	LCS 280-47438/102		280-47438		12/30/2010 13:21	1	TAL DEN	LES
A:353.2	LCS 280-47439/57		280-47439		12/30/2010 12:14	1	TAL DEN	LES
P:365.2/365.3/365	LCS 280-47516/1-A		280-47684	280-47516	01/03/2011 09:08	1	TAL DEN	BMG
A:365.1	LCS 280-47516/1-A		280-47684	280-47516	01/04/2011 09:49	1	TAL DEN	BMG
A:410.4	LCS 280-47457/3		280-47457		12/30/2010 17:47	1	TAL DEN	MRD
A:SM 2320B	LCS 280-47279/4		280-47279		12/29/2010 15:42	1	TAL DEN	MRD
A:SM 2540D	LCS 280-47277/2		280-47277		12/29/2010 17:21	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 280-47221/3-A		280-47794	280-47221	12/29/2010 14:20	1	TAL DEN	DFB
A:625	LCSD 280-47221/3-A		280-47794	280-47221	01/03/2011 21:26	1	TAL DEN	SAT
P:1664A	LCSD 280-47326/3-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:1664A	LCSD 280-47326/3-A		280-47350	280-47326	12/30/2010 10:54	1	TAL DEN	PAG
A:300.0A	LCSD 280-47453/4		280-47453		12/29/2010 12:32	1	TAL DEN	TLP
A:350.1	LCSD 280-47438/103		280-47438		12/30/2010 13:23	1	TAL DEN	LES
A:353.2	LCSD 280-47439/58		280-47439		12/30/2010 12:15	1	TAL DEN	LES
P:365.2/365.3/365	LCSD 280-47516/2-A		280-47684	280-47516	01/03/2011 09:08	1	TAL DEN	BMG
A:365.1	LCSD 280-47516/2-A		280-47684	280-47516	01/04/2011 09:49	1	TAL DEN	BMG
A:410.4	LCSD 280-47457/4		280-47457		12/30/2010 17:47	1	TAL DEN	MRD
A:SM 2320B	LCSD 280-47279/5		280-47279		12/29/2010 15:52	1	TAL DEN	MRD
A:SM 2540D	LCSD 280-47277/3		280-47277		12/29/2010 17:21	1	TAL DEN	PAG

Client: Waste Management

Job Number: 280-11232-1

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 280-47453/5		280-47453		12/29/2010 12:49	1	TAL DEN	TLP

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

Sample Date/Time: 12/24/2010 13:30 Received Date/Time: 12/29/2010 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:245.1	280-11219-C-2-D MS		280-47488	280-47238	12/30/2010 10:02	1	TAL DEN	KS
A:245.1	280-11219-C-2-D MS		280-47488	280-47238	12/30/2010 13:54	1	TAL DEN	KS
A:300.0A	280-11222-I-1 MS		280-47453		12/29/2010 13:56	1	TAL DEN	TLP
A:300.0A	280-11222-I-1 MS		280-47453		12/29/2010 16:49	5	TAL DEN	TLP
A:350.1	280-10770-D-1 MS		280-47438		12/30/2010 13:26	1	TAL DEN	LES
A:353.2	280-10819-A-7 MS		280-47439		12/30/2010 12:18	1	TAL DEN	LES
A:410.4	280-10786-P-3 MS		280-47457		12/30/2010 17:47	1	TAL DEN	MRD

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

Sample Date/Time: 12/24/2010 13:30 Received Date/Time: 12/29/2010 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:245.1	280-11219-C-2-E MSD		280-47488	280-47238	12/30/2010 10:02	1	TAL DEN	KS
A:245.1	280-11219-C-2-E MSD		280-47488	280-47238	12/30/2010 13:56	1	TAL DEN	KS
A:300.0A	280-11222-I-1 MSD		280-47453		12/29/2010 14:13	1	TAL DEN	TLP
A:300.0A	280-11222-I-1 MSD		280-47453		12/29/2010 17:06	5	TAL DEN	TLP
A:350.1	280-10770-D-1 MSD		280-47438		12/30/2010 13:27	1	TAL DEN	LES
A:353.2	280-10819-A-7 MSD		280-47439		12/30/2010 12:29	1	TAL DEN	LES
A:410.4	280-10786-P-3 MSD		280-47457		12/30/2010 17:47	1	TAL DEN	MRD

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

Sample Date/Time: 12/28/2010 13:45 Received Date/Time: 12/29/2010 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0A	280-11222-I-1 DU		280-47453		12/29/2010 13:40	1	TAL DEN	TLP
A:300.0A	280-11222-I-1 DU		280-47453		12/29/2010 16:33	5	TAL DEN	TLP
A:SM 2320B	280-11223-A-1 DU		280-47279		12/29/2010 16:19	1	TAL DEN	MRD
A:SM 2540D	280-11218-A-1 DU		280-47277		12/29/2010 17:21	1	TAL DEN	PAG

Lab References:
TAL DEN = TestAmerica Denver

Login Sample Receipt Check List

Client: Waste Management

Job Number: 280-11232-1

Login Number: 11232

List Source: TestAmerica Denver

Creator: Lazarte, Noah M

List Number: 1

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.	True	
Cooler Temperature is acceptable.	True	
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.	True	
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	

METHOD SUMMARY

Client: Waste Management

Job Number: 280-8496-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL DEN	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL DEN		SW846 3520C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL DEN		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL DEN		SW846 3510C
Herbicides (GC)	TAL DEN	SW846 8151A	
Extraction (Herbicides)	TAL DEN		SW846 8151A
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury	TAL DEN		SW846 7470A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0A	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
COD	TAL DEN	MCAWW 410.4	
Cyanide, Total and/or Amenable	TAL DEN	SW846 9012A	
Cyanide, Total and/or Amenable, Distillation	TAL DEN		SW846 9012A
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Sulfide, Total	TAL DEN	SM SM 4500 S2 D	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Field Sampling	TAL DEN	EPA Field Sampling	
SW846 8280 Dioxins	TAL WSC	SW846 8280	

Lab References:

TAL DEN = TestAmerica Denver

TAL WSC = TestAmerica West Sacramento

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: AECOM Technical Services, Inc	Project Manager: TOBIAS KOEHLER	Date: 12/23/10	Chain of Custody Number: 131874
Address: 1001 Bishop St. Ste 1600	Telephone Number (Area Code)/Fax Number: 8083565306/8085238950	Lab Number	Page 1 of 1
City: Honolulu; State: HI; Zip Code: 96813	Site Contact: Justin Lotting (WM)	Lab Contact: Betsy Sara	
Project Name and Location (State): Waste Mgmt, WGSL, Kapolei, HI	Carrier/Waybill Number: UPS		
Contract/Purchase Order/Quote No.: Waste Management Account, Waimanalo Gulch, Justin Lotting			

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		Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Culvert Inlet	12/23/10	20:00		X				X	X	X	X	X			See Attached Table for Analyses and Methods	

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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: T. Koehler (T. KOEHLER)	12/27/10	15:00	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: TEMPERATURE BLANK IN COOLER!

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

WMH 000462

AECOS, Inc.

45-939 Kamehameha Highway, Suite 104♦Kaneohe HI 96744
Telephone: (808)234-7770♦ Fax: (808)234-7775 ♦Email: aecos@aecos.com

CLIENT: TestAmerica-Denver
4955 Yarrow Street
Arvada, CO 80002

ATTENTION: Betsy Sara ☎ 303-736-0100 / 303-736-0189
betsy.sara@testamericainc.com fax:303-431-7171

FILE No.:	746
REPORT DATE:	01/05/11
PAGE:	1 of 1

AECOS REPORT OF ANALYTICAL RESULTS

SAMPLE TYPE: Stormwater
DATE SAMPLED: 12/23/10

***AECOS* LOG No.:** 26903
DATE RECEIVED: 12/24/10

ANALYTE (UNITS)	BOD mg/L	Hexavalent Chromium (Chromium VI) µg/L			
Analysis Date/ Analyst ID ⇨	12/24-29/10 sm	12/24/10 jw			
SAMPLE ID ⇩					
Culvert Inlet	18	12			
Method	SM5210B	Hach 8023*			
MRL	1	11			
MDL	---	2			
QC	99%	104%			
Matrix Spike	---	85.6%			
Matrix Spike dup	---	84.8%			
Blank	0.58	6			
LCS	98.9%	---			
LCS dup 1	101%	---			
LCS dup 2	98.5%	---			

* Hach 8023 is accepted for SM 3500-CrB

J. Mello, Laboratory Director

CHAIN OF CUSTODY FORM

AECOS, Inc.
45-939 Kamehameha Highway Suite 104
Kaneohe, Oahu, HI 96744
Tel: (808) 234-7770 Fax: 234-7775

PROJECT FILE No.: WG-SL SW

LOG NUMBER: [026903]

CLIENT: AECOM Technical Srvcs CONTACT: Tobias Koehler
ADDRESS: 1001 Bishop St. Ste 1600 PHONE No.: ☎ 808 356 5306
Honolulu, HI 96813 Purchase Order No.:

☒ RUSH
☐ SEE REVERSE
SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1		Culvert Inlet	12/23/10	2000	Storm H_2O	1L	Poly	Chromium VI, BOD	Chill
2									
3									
4									
5									
6									
7									
8									
9									
10									

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE. NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW ↓. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY: Tobias Koehler DATE 12/24 2010
PRINT NAME
RELINQUISHED: DATE 20__
SIGNATURE TIME 0955

RECEIVED BY: DATE 20__
SIGNATURE TIME
RELINQUISHED: DATE 20__
SIGNATURE OR INITIALS TIME

RECEIVED FOR LABORATORY: Snookie Miller DATE 12/24 2010
SIGNATURE TIME 955
RELINQUISHED: DATE 20__
SIGNATURE OR INITIALS TIME

COMMENTS:

PRECAUTIONS: Temp ctl = 7.5°C

DISPOSAL:

RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK

WMH 000464

Attachment C
December 23, 2010 Discharge Monitoring Form

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME City and County of Honolulu
Department of Environmental Services, Refuse Division
1000 Uluohia Street, Suite 212
Kapolei, Oahu 96707

ADDRESS 92-460 Farrington Highway
Kapolei, Oahu 96707

FACILITY Waimanalo Gulch Sanitary Landfill

LOCATION Culvert Entrance, Property Boundary

HI R50A533	WGLF-Culvert-03
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	10	3	02	TO	10	12	30

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Biochemical Oxygen Demand	SAMPLE MEASUREMENT						18	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Chemical Oxygen Demand	SAMPLE MEASUREMENT						85	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Total Suspended Solids	SAMPLE MEASUREMENT						86	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						100			1/365	Composite
Total Phosphorus	SAMPLE MEASUREMENT						0.32	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Total Nitrogen	SAMPLE MEASUREMENT						2.7	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Nitrate + Nitrite Nitrogen	SAMPLE MEASUREMENT						0.057	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.			808	668-2985	2011	1	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

WMH 000466

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME City and County of Honolulu
Department of Environmental Services, Refuse Division
1000 Uluohia Street, Suite 212
Kapolei, Oahu 96707

ADDRESS 92-460 Farrington Highway
Kapolei, Oahu 96707

FACILITY Waimanalo Gulch Sanitary Landfill

LOCATION Culvert Entrance, Property Boundary

HI R50A533	WGLF-Culvert-03
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	10	3	02	TO	10	12	30

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Oil and Grease	SAMPLE MEASUREMENT						2.2	mg/L	0	1/365	Grab
	PERMIT REQUIREMENT						15			1/365	Grab
pH	SAMPLE MEASUREMENT						7.75		0	1/365	Grab
	PERMIT REQUIREMENT						5.5-8.0			1/365	Grab
Flow	SAMPLE MEASUREMENT	0.6		cfs				cfs	0	1/365	Composite
	PERMIT REQUIREMENT		No discharge limitation at this time.							1/365	Composite
Total Recoverable Iron	SAMPLE MEASUREMENT						4.5	mg/L	1	1/365	Composite
	PERMIT REQUIREMENT						1.0			1/365	Composite
Total Recoverable Zinc	SAMPLE MEASUREMENT						0.044	mg/L	1	1/365	Composite
	PERMIT REQUIREMENT						0.022			1/365	Composite
Ammonia	SAMPLE MEASUREMENT						0.12	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						10 (daily max) 4.9 (max monthly avg)			1/365	Composite
Alpha Terpineol	SAMPLE MEASUREMENT						< 0.01	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.033 (daily max) 0.016 (max monthly avg)			1/365	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		808	668-2985	2011	1	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

WMH 000467

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME City and County of Honolulu
Department of Environmental Services, Refuse Division
1000 Uluohia Street, Suite 212
Kapolei, Oahu 96707

ADDRESS 92-460 Farrington Highway
Kapolei, Oahu 96707

FACILITY Waimanalo Gulch Sanitary Landfill

LOCATION Culvert Entrance, Property Boundary

HI R50A533	WGLF-Culvert-03
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	10	3	02	TO	10	12	30

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Benzoic Acid	SAMPLE MEASUREMENT						< 0.05	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.12 (daily max) 0.071 (max monthly avg)			1/365	Composite
p-Cresol	SAMPLE MEASUREMENT						< 0.01	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.025 (daily max) 0.014 (max monthly avg)			1/365	Composite
Phenol	SAMPLE MEASUREMENT						< 0.01	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.026 (daily max) 0.015 (max monthly avg)			1/365	Composite
Total Recoverable Arsenic	SAMPLE MEASUREMENT						0.0064	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.36			1/365	Composite
Total Recoverable Cadmium	SAMPLE MEASUREMENT						< 0.00045	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.003			1/365	Composite
Total Recoverable Chromium (VI)	SAMPLE MEASUREMENT						0.012	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.016			1/365	Composite
Total Recoverable Lead	SAMPLE MEASUREMENT						0.0048	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.029			1/365	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		808	668-2985	2011	1	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

WMH 000468

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME City and County of Honolulu
Department of Environmental Services, Refuse Division
1000 Uluohia Street, Suite 212
Kapolei, Oahu 96707

ADDRESS 92-460 Farrington Highway
Kapolei, Oahu 96707

FACILITY Waimanalo Gulch Sanitary Landfill

LOCATION Culvert Entrance, Property Boundary

HI R50A533	WGLF-Culvert-03
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	10	3	02	TO	10	12	30

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Total Recoverable Mercury	SAMPLE MEASUREMENT						0.000049	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.0024			1/365	Composite
Total Recoverable Selenium	SAMPLE MEASUREMENT						0.014	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.02			1/365	Composite
Total Recoverable Silver	SAMPLE MEASUREMENT						< 0.00093	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.001			1/365	Composite
Pentachlorophenol	SAMPLE MEASUREMENT						< 0.021	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.02			1/365	Composite
Bromide	SAMPLE MEASUREMENT						1.2	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Chloride	SAMPLE MEASUREMENT						160	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Sulfate	SAMPLE MEASUREMENT						74	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		808	668-2985	2011	1	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

WMH 000469

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME City and County of Honolulu
Department of Environmental Services, Refuse Division
1000 Uluohia Street, Suite 212
Kapolei, Oahu 96707

ADDRESS 92-460 Farrington Highway
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FACILITY Waimanalo Gulch Sanitary Landfill

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HI R50A533	WGLF-Culvert-03
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	10	3	02	TO	10	12	30

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Bicarbonate Alkalinity	SAMPLE MEASUREMENT						210	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Carbonate Alkalinity	SAMPLE MEASUREMENT						< 5	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Total Alkalinity	SAMPLE MEASUREMENT						210	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Calcium	SAMPLE MEASUREMENT						52	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Magnesium	SAMPLE MEASUREMENT						27	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Potassium	SAMPLE MEASUREMENT						9.2	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite

WMH 000470

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.			808	668-2985	2011	1	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*