Date Received: 5/5/09 jst

Route File: Enforcement: msf 5-5-09 J.M. JT 5/20/09 MKa

Engineering: g 5-21-09 KP 5/21/09

(JD) Monitoring: BB

~~DISCHARGE MONITORING REPORT (DMR) EVALUATION~~

Permit No.: HI R50A533 Permittee: Waimanalo Gulch Sanitary Landfi

Date of Report: 4/29/09 Type of Report: DMR (3/2/08 to 3/1/09)

ITEM	EVALUATION	RECOMMENDATION
Effluent Limit	Fe 1.2 vs. 1.0 mg/L	Monitor
Monitoring		
Progress		
Other		

CWB-6/99 (dmrfmt)

09B844

WASTE MANAGEMENT

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

May 1, 2009

Director of Health
Clean Water Branch
Environmental Management Division
State Department of Health
P.O. Box 3378
Honolulu, HI 96801-3378

2009 MAY 5 9:49AM

Attention: Ms. Kris Poentis, Engineering Section

Subject: Annual Discharge Monitoring Report and Storm Water Results, Waimanalo Gulch Sanitary Landfill, Kapolei, Oahu, Hawaii, File No. HI R50A533

Dear Ms. Poentis:

On behalf of the City & County of Honolulu, Waste Management of Hawaii (WMH) submits annual storm water monitoring results, including the Discharge Monitoring Report (DMR), for the Waimanalo Gulch Sanitary Landfill for the monitoring period of March 2, 2008 through March 1, 2009.

The sampled storm event commenced at approximately 0700 on November 22, 2008. Discharge from the outfall was observed beginning at approximately 1050. Grab samples were collected at approximately 1115 and the composite sample consisting of 4 aliquots was collected at 15 minute intervals between 1130 and 1230. The Storm Water Sampling Form and Field Information Form are presented as Attachment A and Attachment B, respectively, and provide the details of the storm water sampling event. Laboratory results, including quality assurance/quality control data are included as Attachment C.

As indicated on the attached DMR form (EPA Form 3320-1) (Attachment D), total recoverable iron, exceeded the discharge limitations per the Notice of General Permit Coverage (NGPC), dated March 2, 2005. Please note that previous up-canyon samples have shown total recoverable iron above the discharge limit and therefore the exceedance may be attributable to naturally occurring dissolution from native soils. A petition to update the discharge limits will be submitted for approval to the DOH CWB in a separate letter. The required verbal notification of these exceedances was made to the Hawai'i, State Department of Health, Clean Water Branch (DOH CWB) on December 16, 2008. The required written notification regarding the exceedances was submitted to the DOH CWB in a letter dated December 19, 2008. A copy of this document is included as Attachment E. Corrective actions continue to be implemented as presented in the Storm Water Pollution Control Plan.

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

Printed on 100% post-consumer recycled paper.

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 R. Whelan
General Manager/Vice President
Waste Management of Hawaii

Enclosures: Attachment A – Storm Water Sampling Form
Attachment B – Field Information Form
Attachment C – Laboratory Reports
Attachment D – Discharge Monitoring Form
Attachment E – Written Notification of Exceedance

cc: Wayne Hamada – City and County of Honolulu
Michelle Mason – AECOM, Project Manager

Attachment A
Storm Water Sampling Form

Storm Water Sampling Form
Waimanalo Gulch Sanitary Landfill
Storm Water Pollution Control Plan

Sampling Location: WGSL-DB01E	Date: 11/22/08 Project Number: 103274.02
Sampling Personnel: Michelle Mason	
Weather Conditions: Rain, wind ~5-10 mph, temp ~ 78°F	
Observations/Comments: Discharge clear	

Instrument	Manufacturer	Model	Serial No.	Calibration Date and Time
pH Meter	YSI	pH10	JC004109	11/22/08 @ 0815am

Calibration results: 4.01, 7.00, 10.01

Comments: None 1.5 ft3/sec discharge according to SWPCP pg. B-6

Time at Start of Rain: ~ 7:00 am	Time of First Run-off: ~ 10:50 am

Sample Collection Method: Grab sample for pH, O&G, Composite samples for other, 3 aliquots every 20 minutes

Flow-Measurement Method: ruler in outfall - engineering design formula

Describe: Approximately

Sample Appearance: clear	Odor: none	Color: semi-clear
Floating Debris: none	Scum or Foam: none	Oil Sheen: none

SAMPLE NUMBER	TIME SAMPLED	pH	FLOW MEASUREMENTS
WGSL-DB01E	1230	7.36	~4" = 1.5 cubic feet/second

Comments: Started sampling at ~ 1115 am for grab samples, 1130 for composite sampling, ended at 1230.

Attachment B
Field Information Form

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WGSL

Site No.:

Sample Point: WGSL4-1

Sample ID DBOTE

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

Laboratory Use Only/Lab ID:

PURGE INFO

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

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device ____

X-Other: ____

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

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

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

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

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

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

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

STABILIZATION DATA (Optional)

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

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 22 08	7.36						

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.*

Sample Appearance: Semi-clear Odor: None Color: light Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 5-10mph Outlook: ____ Precipitation: (Y) or N

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

FIELD COMMENTS

Discharge from outfall was observed at approx 1130am. Collected grab sample for oil and grease and pH. Collected composite samples for other parameters, 3 aliquots at 30 minute intervals. Time ended at 1230.

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
11/22/08	Michelle Mason	Michelle Mason	Earth Tech

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

STL-8029WM R: 12/00

Attachment C
Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project No. Site 995

Waimanalo Gulch Landfill

Lot #: D8K260197

Stormwater

Justin Lottig

Waste Management, Inc.
Waimanalo Gulch Landfill
92-960 Farrington Highway
Kapolei, HI 96707

Cc: John Fong, Earth Tech

TestAmerica Laboratories, Inc.

Betsy Sara
Project Manager

December 15, 2008

4955 Yarrow Street Arvada, CO 80002 **tel** 303.736.0100 **fax** 303.431.7171 **www.testamericainc.com**

Table Of Contents

Standard Deliverables

Report Contents	Total Number of Pages
Standard Deliverables *The **Cover Letter** and the **Report Cover** page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.*	

- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
- **Method/Analyst Summary**
- **Lot Sample Summary**
- **Analytical Results**
- **QC Data Association Summary**
- **Chain-of-Custody**

Case Narrative

Enclosed is the report for one sample received at TestAmerica Denver laboratory on November 26, 2008. The results included in this report have been reviewed for compliance with TestAmerica Denver's Laboratory Quality Manual. The results relate only to the samples in this report and meet all requirements of NELAC and any exceptions are noted below.

This report may include data with reporting limits (RLs) less than TestAmerica Denver's standard reporting limits. These data and reporting limits are being used specifically to meet the needs of this project. Note that, data are not customarily reported to these levels without qualifiers, because they are inherently less reliable and potentially less defensible than the latest industry standards require. Please contact TestAmerica Denver for more details.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D8K260197

Sample Receiving

The cooler temperature upon receipt at the Denver laboratory was 2.7°C.

All sample bottles were received in acceptable condition.

Holding Times

The analysis for Total Suspended Solids Method 2540 D for the sample WGSL-DB01E was performed two days outside of the 7-day holding time due to more than half of the hold time expiring during transit. It is TestAmerica's policy to analyze all samples within holding times, but when samples are received with less than half the hold time remaining, this can not be guaranteed.

All other holding times were met.

Method Blanks

Total Phosphorus Method 365.3 was detected in the Method Blank below the project established reporting limit. 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)

Sample WGSL-DB01E was selected to fulfill the laboratory batch quality control requirements for Method 625. Analysis of the laboratory generated MS/MSD for this sample provided recoveries of 3,3'-Dichlorobenzidine and Benzidine below the lower control limits indicating the possible presence of a matrix interference.

The Method 410.4 MS/MSD performed on a sample from another client exhibited a RPD result outside the RPD limit for Chemical Oxygen Demand (COD). Because the corresponding Matrix Spike and Matrix Spike Duplicate recoveries, Laboratory Control Sample, and Method Blank sample were within control limits, this anomaly is considered to be due to matrix interference and no corrective action was taken.

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

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

EXECUTIVE SUMMARY - Detection Highlights

D8K260197

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WGSL-DB01E 11/22/08 12:30 001				
Iron	1200	100	ug/L	MCAWW 200.7
Zinc	8.4 B	20	ug/L	MCAWW 200.7
Total Kjeldahl Nitrogen	0.67	0.50	mg/L	MCAWW 351.2
Nitrate-Nitrite	2.2	0.10	mg/L	MCAWW 353.2
Field pH	7.36	0.1	No Units	MCAWW 150.1
Total phosphorus	0.21 J	0.050	mg/L	MCAWW 365.3
Total Suspended Solids	4.8	4.0	mg/L	SM18 2540 D
HEM (Oil and Grease)	2.7 B	5.0	mg/L	CFR136A 1664A HEM
Ammonia as N	0.058 B	0.10	mg/L	MCAWW 350.1
Chemical Oxygen Demand (COD)	19 B	20	mg/L	MCAWW 410.4

METHODS SUMMARY

D8K260197

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Base/Neutrals and Acids	CFR136A 625	CFR136A 625
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Field pH	MCAWW 150.1	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	MCAWW 200.7	MCAWW 200.7
N-Hexane Extractable Material (1664A)	CFR136A 1664A H	CFR136A 1664
Nitrate-Nitrite	MCAWW 353.2	MCAWW 353.2
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Total phosphorus	MCAWW 365.3	MCAWW 365.3
Total Kjeldahl Nitrogen	MCAWW 351.2	MCAWW 351.2
Total Suspended Solids	SM18 2540 D	SM18 2540 D

References:

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

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

METHOD / ANALYST SUMMARY

D8K260197

ANALYTICAL METHOD	ANALYST	ANALYST ID
CFR136A 1664A HEM	Reva M. Golden	010906
CFR136A 625	Mike G. Hoffman	001880
MCAWW 150.1	Outside Lab	OUT
MCAWW 200.7	David Wells	5099
MCAWW 200.7	Lynn-Anne Trudell	006645
MCAWW 200.7	Lynn-Anne Trudell	6645
MCAWW 350.1	Brett Wolff	009878
MCAWW 351.2	Brett Wolff	009878
MCAWW 353.2	Brett Wolff	009878
MCAWW 365.3	Bryan Gilbert	007254
MCAWW 410.4	ReAnna Davis	002266
SM18 2540 D	braden H. peterson	006733

References:

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

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SAMPLE SUMMARY

D8K260197

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K3PT8	001	WGSL-DB01E	11/22/08	12:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Waste Management, Inc.

Client Sample ID: WGSL-DB01E

GC/MS Semivolatiles

Lot-Sample #...: D8K260197-001 **Work Order #...:** K3PT81AJ **Matrix.....:** WATER
Date Sampled...: 11/22/08 12:30 **Date Received..:** 11/26/08
Prep Date.....: 11/27/08 **Analysis Date..:** 12/07/08
Prep Batch #...: 8332025 **Analysis Time..:** 23:18
Dilution Factor: 1

Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Alpha-Terpineol	ND	10	ug/L	2.0
Benzoic acid	ND	50	ug/L	10
Phenol	ND	10	ug/L	2.0
4-Methylphenol	ND	10	ug/L	0.25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	86	(49 - 120)
Phenol-d5	92	(54 - 120)
Nitrobenzene-d5	91	(56 - 120)
2-Fluorobiphenyl	75	(52 - 120)
2,4,6-Tribromophenol	110	(56 - 120)
Terphenyl-d14	101	(50 - 120)

Waste Management, Inc.

Client Sample ID: WGSL-DB01E

TOTAL Metals

Lot-Sample #...: D8K260197-001 Matrix.....: WATER
Date Sampled...: 11/22/08 12:30 Date Received..: 11/26/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8333139						
Iron	1200	100	ug/L	MCAWW 200.7	12/01-12/08/08	K3PT81AK
		Dilution Factor: 1		Analysis Time..: 19:36	MDL.....: 22	
Zinc	8.4 B	20	ug/L	MCAWW 200.7	12/01-12/08/08	K3PT81AL
		Dilution Factor: 1		Analysis Time..: 14:31	MDL.....: 4.5	

NOTE(S):

B Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: WGSL-DB01E

General Chemistry

Lot-Sample #...: D8K260197-001 Work Order #...: K3PT8 Matrix.....: WATER
Date Sampled...: 11/22/08 12:30 Date Received..: 11/26/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.058 B	0.10	mg/L	MCAWW 350.1	12/05/08	8341041
	Dilution Factor: 1			Analysis Time..: 11:58	MDL.....: 0.022	
Chemical Oxygen Demand (COD)	19 B	20	mg/L	MCAWW 410.4	12/03-12/04/08	8339306
	Dilution Factor: 1			Analysis Time..: 11:45	MDL.....: 4.1	
Field pH	7.36	0.1	No Units	MCAWW 150.1	11/22/08	8337232
	Dilution Factor: 1			Analysis Time..: 12:30	MDL.....:	
HEM (Oil and Grease)	2.7 B	5.0	mg/L	CFR136A 1664A HEM	12/03/08	8338419
	Dilution Factor: 1			Analysis Time..: 08:30	MDL.....: 1.4	
Nitrate-Nitrite	2.2	0.10	mg/L	MCAWW 353.2	12/05/08	8341049
	Dilution Factor: 1			Analysis Time..: 11:58	MDL.....: 0.019	
Total phosphorus	0.21 J	0.050	mg/L	MCAWW 365.3	12/01-12/02/08	8337435
	Dilution Factor: 1			Analysis Time..: 14:00	MDL.....: 0.0050	
Total Kjeldahl Nitrogen	0.67	0.50	mg/L	MCAWW 351.2	12/05-12/06/08	8341091
	Dilution Factor: 1			Analysis Time..: 10:08	MDL.....: 0.25	
Total Suspended Solids	4.8	4.0	mg/L	SM18 2540 D	12/01/08	8336368
	Dilution Factor: 1			Analysis Time..: 11:15	MDL.....: 1.1	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

D8K260197

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 200.7		8333139	8333108
	WATER	MCAWW 351.2		8341091	8341063
	WATER	MCAWW 353.2		8341049	8341056
	WATER	CFR136A 625		8332025	8332009
	WATER	MCAWW 150.1		8337232	
	WATER	MCAWW 365.3		8337435	8338078
	WATER	SM18 2540 D		8336368	8336270
	WATER	CFR136A 1664A HEM		8338419	
	WATER	MCAWW 350.1		8341041	8341044
	WATER	MCAWW 410.4		8339306	8339318

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197
MB Lot-Sample #: D8K270000-025
Work Order #...: K3REQ1AA
Matrix.....: WATER
Prep Date.....: 11/27/08
Analysis Time..: 22:59
Analysis Date..: 12/07/08
Prep Batch #...: 8332025
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzoic acid	ND	50	ug/L	CFR136A 625
4-Methylphenol	ND	10	ug/L	CFR136A 625
Phenol	ND	10	ug/L	CFR136A 625
Alpha-Terpineol	ND	10	ug/L	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	90	(49 - 120)
Phenol-d5	97	(54 - 120)
Nitrobenzene-d5	95	(56 - 120)
2-Fluorobiphenyl	78	(52 - 120)
2,4,6-Tribromophenol	95	(56 - 120)
Terphenyl-d14	96	(50 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197
LCS Lot-Sample#: D8K270000-025
Prep Date.....: 11/27/08
Prep Batch #...: 8332025
Dilution Factor: 1

Work Order #...: K3REQ1AC-LCS
K3REQ1AD-LCSD
Analysis Date..: 12/07/08
Analysis Time..: 10:40

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Methylphenol	89	(58 - 120)			CFR136A 625
	90	(58 - 120)	0.86	(0-39)	CFR136A 625
Phenol	90	(58 - 112)			CFR136A 625
	92	(58 - 112)	2.3	(0-30)	CFR136A 625
2-Chlorophenol	90	(57 - 120)			CFR136A 625
	91	(57 - 120)	1.2	(0-30)	CFR136A 625
1,3-Dichlorobenzene	72	(45 - 120)			CFR136A 625
	72	(45 - 120)	0.25	(0-47)	CFR136A 625
1,4-Dichlorobenzene	72	(45 - 120)			CFR136A 625
	72	(45 - 120)	0.080	(0-49)	CFR136A 625
1,2-Dichlorobenzene	75	(48 - 120)			CFR136A 625
	76	(48 - 120)	1.3	(0-42)	CFR136A 625
bis(2-Chloroisopropyl) ether	80	(57 - 120)			CFR136A 625
	80	(57 - 120)	0.050	(0-30)	CFR136A 625
N-Nitrosodi-n-propyl-amine	85	(58 - 120)			CFR136A 625
	86	(58 - 120)	0.66	(0-30)	CFR136A 625
Hexachloroethane	69	(43 - 113)			CFR136A 625
	68	(43 - 113)	1.4	(0-52)	CFR136A 625
Nitrobenzene	87	(58 - 120)			CFR136A 625
	87	(58 - 120)	0.050	(0-30)	CFR136A 625
Isophorone	87	(54 - 120)			CFR136A 625
	88	(54 - 120)	1.1	(0-30)	CFR136A 625
2-Nitrophenol	95	(59 - 120)			CFR136A 625
	99	(59 - 120)	4.4	(0-30)	CFR136A 625
2,4-Dimethylphenol	77	(44 - 119)			CFR136A 625
	80	(44 - 119)	3.5	(0-35)	CFR136A 625
bis(2-Chloroethoxy) methane	88	(56 - 120)			CFR136A 625
	91	(56 - 120)	3.0	(0-30)	CFR136A 625
2,4-Dichlorophenol	97	(60 - 120)			CFR136A 625
	101	(60 - 120)	4.1	(0-30)	CFR136A 625
1,2,4-Trichloro-benzene	80	(50 - 120)			CFR136A 625
	81	(50 - 120)	1.6	(0-35)	CFR136A 625

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 **Work Order #...:** K3REQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	83	(52 - 120)			CFR136A 625
	84	(52 - 120)	0.78	(0-30)	CFR136A 625
Hexachlorobutadiene	80	(49 - 116)			CFR136A 625
	79	(49 - 116)	0.99	(0-41)	CFR136A 625
4-Chloro-3-methylphenol	94	(63 - 120)			CFR136A 625
	96	(63 - 120)	2.4	(0-30)	CFR136A 625
2,4,6-Trichloro-phenol	101	(60 - 120)			CFR136A 625
	103	(60 - 120)	1.8	(0-30)	CFR136A 625
2-Chloronaphthalene	90	(60 - 118)			CFR136A 625
	92	(60 - 118)	2.4	(0-30)	CFR136A 625
Dimethyl phthalate	95	(61 - 112)			CFR136A 625
	97	(61 - 112)	2.5	(0-30)	CFR136A 625
Acenaphthylene	92	(58 - 120)			CFR136A 625
	95	(58 - 120)	2.3	(0-30)	CFR136A 625
Acenaphthene	91	(58 - 120)			CFR136A 625
	92	(58 - 120)	1.3	(0-30)	CFR136A 625
2,4-Dinitrophenol	89	(36 - 121)			CFR136A 625
	93	(36 - 121)	4.5	(0-61)	CFR136A 625
4-Nitrophenol	86	(53 - 120)			CFR136A 625
	92	(53 - 120)	6.4	(0-42)	CFR136A 625
2,4-Dinitrotoluene	96	(60 - 120)			CFR136A 625
	100	(60 - 120)	3.7	(0-35)	CFR136A 625
Diethyl phthalate	93	(61 - 114)			CFR136A 625
	96	(61 - 114)	3.7	(0-30)	CFR136A 625
4-Chlorophenyl phenyl ether	95	(60 - 120)			CFR136A 625
	97	(60 - 120)	2.5	(0-30)	CFR136A 625
Fluorene	92	(60 - 120)			CFR136A 625
	95	(60 - 120)	2.7	(0-30)	CFR136A 625
4-Bromophenyl phenyl ether	100	(61 - 120)			CFR136A 625
	101	(61 - 120)	0.78	(0-34)	CFR136A 625
Hexachlorobenzene	104	(62 - 120)			CFR136A 625
	104	(62 - 120)	0.080	(0-30)	CFR136A 625
Pentachlorophenol	86	(49 - 120)			CFR136A 625
	88	(49 - 120)	3.3	(0-30)	CFR136A 625
Phenanthrene	91	(63 - 120)			CFR136A 625
	92	(63 - 120)	1.2	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 **Work Order #...:** K3REQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Anthracene	95	(62 - 120)			CFR136A 625
	96	(62 - 120)	1.6	(0-30)	CFR136A 625
Di-n-butyl phthalate	95	(62 - 118)			CFR136A 625
	96	(62 - 118)	0.75	(0-30)	CFR136A 625
Fluoranthene	101	(59 - 120)			CFR136A 625
	103	(59 - 120)	1.2	(0-30)	CFR136A 625
Pyrene	87	(60 - 115)			CFR136A 625
	89	(60 - 115)	2.4	(0-30)	CFR136A 625
Butyl benzyl phthalate	85	(60 - 120)			CFR136A 625
	84	(60 - 120)	1.2	(0-30)	CFR136A 625
3,3'-Dichlorobenzidine	65	(34 - 120)			CFR136A 625
	61	(34 - 120)	7.2	(0-50)	CFR136A 625
bis(2-Ethylhexyl) phthalate	84	(58 - 120)			CFR136A 625
	85	(58 - 120)	0.90	(0-30)	CFR136A 625
Chrysene	91	(60 - 120)			CFR136A 625
	94	(60 - 120)	3.3	(0-30)	CFR136A 625
Di-n-octyl phthalate	84	(59 - 120)			CFR136A 625
	85	(59 - 120)	1.4	(0-30)	CFR136A 625
Benzo(b)fluoranthene	84	(55 - 120)			CFR136A 625
	90	(55 - 120)	7.2	(0-90)	CFR136A 625
Benzo(k)fluoranthene	99	(57 - 120)			CFR136A 625
	97	(57 - 120)	1.2	(0-50)	CFR136A 625
Indeno(1,2,3-cd)pyrene	99	(56 - 120)			CFR136A 625
	104	(56 - 120)	5.5	(0-73)	CFR136A 625
Dibenz(a,h)anthracene	102	(58 - 120)			CFR136A 625
	109	(58 - 120)	6.2	(0-78)	CFR136A 625
Benzo(ghi)perylene	94	(52 - 120)			CFR136A 625
	98	(52 - 120)	4.1	(0-64)	CFR136A 625
4,6-Dinitro-2-methylphenol	96	(41 - 120)			CFR136A 625
	101	(41 - 120)	5.0	(0-55)	CFR136A 625
Benzidine	58	(10 - 218)			CFR136A 625
	59	(10 - 218)	1.2	(0-50)	CFR136A 625
Benzo(a)pyrene	74	(58 - 120)			CFR136A 625
	77	(58 - 120)	3.1	(0-73)	CFR136A 625
Hexachlorocyclopentadiene	73	(10 - 120)			CFR136A 625
	74	(10 - 120)	1.3	(0-82)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 **Work Order #...:** K3REQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
N-Nitrosodimethylamine	**83**	**(52 - 120)**			**CFR136A 625**
	86	**(52 - 120)**	**2.6**	**(0-30)**	**CFR136A 625**
N-Nitrosodiphenylamine	**76**	**(10 - 203)**			**CFR136A 625**
	79	**(10 - 203)**	**4.2**	**(0-50)**	**CFR136A 625**
2-Methyl-4,6-dinitro-phenol	**96**	**(41 - 120)**			**CFR136A 625**
	101	**(41 - 120)**	**5.0**	**(0-55)**	**CFR136A 625**
2-Methylphenol	**88**	**(56 - 120)**			**CFR136A 625**
	88	**(56 - 120)**	**0.57**	**(0-35)**	**CFR136A 625**
n-Decane	**53**	**(28 - 120)**			**CFR136A 625**
	53	**(28 - 120)**	**0.070**	**(0-61)**	**CFR136A 625**
2-Methylnaphthalene	**85**	**(57 - 120)**			**CFR136A 625**
	87	**(57 - 120)**	**2.5**	**(0-30)**	**CFR136A 625**
2,6-Dinitrotoluene	**92**	**(61 - 120)**			**CFR136A 625**
	93	**(61 - 120)**	**1.4**	**(0-30)**	**CFR136A 625**
Benzo(a)anthracene	**93**	**(60 - 120)**			**CFR136A 625**
	94	**(60 - 120)**	**0.44**	**(0-30)**	**CFR136A 625**
bis(2-Chloroethyl)-ether	**83**	**(55 - 120)**			**CFR136A 625**
	84	**(55 - 120)**	**1.5**	**(0-30)**	**CFR136A 625**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	87	(53 - 120)
	89	(53 - 120)
Phenol-d5	90	(57 - 120)
	92	(57 - 120)
Nitrobenzene-d5	87	(59 - 120)
	86	(59 - 120)
2-Fluorobiphenyl	89	(49 - 120)
	87	(49 - 120)
2,4,6-Tribromophenol	113	(50 - 120)
	113	(50 - 120)
Terphenyl-d14	92	(63 - 120)
	95	(63 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 Work Order #...: K3REQ1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD
Prep Date.....: 11/27/08 Analysis Date..: 12/07/08
Prep Batch #...: 8332025 Analysis Time..: 10:40
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Methylphenol	100	88.8	ug/L	89		CFR136A 625
	100	89.6	ug/L	90	0.86	CFR136A 625
Phenol	100	90.1	ug/L	90		CFR136A 625
	100	92.2	ug/L	92	2.3	CFR136A 625
2-Chlorophenol	100	89.9	ug/L	90		CFR136A 625
	100	91.1	ug/L	91	1.2	CFR136A 625
1,3-Dichlorobenzene	100	71.8	ug/L	72		CFR136A 625
	100	71.6	ug/L	72	0.25	CFR136A 625
1,4-Dichlorobenzene	100	72.0	ug/L	72		CFR136A 625
	100	71.9	ug/L	72	0.080	CFR136A 625
1,2-Dichlorobenzene	100	75.2	ug/L	75		CFR136A 625
	100	76.2	ug/L	76	1.3	CFR136A 625
bis(2-Chloroisopropyl) ether	100	79.7	ug/L	80		CFR136A 625
	100	79.6	ug/L	80	0.050	CFR136A 625
N-Nitrosodi-n-propyl-amine	100	85.4	ug/L	85		CFR136A 625
	100	86.0	ug/L	86	0.66	CFR136A 625
Hexachloroethane	100	68.6	ug/L	69		CFR136A 625
	100	67.6	ug/L	68	1.4	CFR136A 625
Nitrobenzene	100	86.9	ug/L	87		CFR136A 625
	100	86.8	ug/L	87	0.050	CFR136A 625
Isophorone	100	87.4	ug/L	87		CFR136A 625
	100	88.4	ug/L	88	1.1	CFR136A 625
2-Nitrophenol	100	95.2	ug/L	95		CFR136A 625
	100	99.5	ug/L	99	4.4	CFR136A 625
2,4-Dimethylphenol	100	76.9	ug/L	77		CFR136A 625
	100	79.7	ug/L	80	3.5	CFR136A 625
bis(2-Chloroethoxy) methane	100	87.9	ug/L	88		CFR136A 625
	100	90.7	ug/L	91	3.0	CFR136A 625
2,4-Dichlorophenol	100	97.0	ug/L	97		CFR136A 625
	100	101	ug/L	101	4.1	CFR136A 625
1,2,4-Trichloro-benzene	100	79.9	ug/L	80		CFR136A 625
	100	81.2	ug/L	81	1.6	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 **Work Order #...:** K3REQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Naphthalene	100	83.5	ug/L	83		CFR136A 625
	100	84.2	ug/L	84	0.78	CFR136A 625
Hexachlorobutadiene	100	79.8	ug/L	80		CFR136A 625
	100	79.0	ug/L	79	0.99	CFR136A 625
4-Chloro-3-methylphenol	100	93.9	ug/L	94		CFR136A 625
	100	96.2	ug/L	96	2.4	CFR136A 625
2,4,6-Trichloro-phenol	100	101	ug/L	101		CFR136A 625
	100	103	ug/L	103	1.8	CFR136A 625
2-Chloronaphthalene	100	90.2	ug/L	90		CFR136A 625
	100	92.4	ug/L	92	2.4	CFR136A 625
Dimethyl phthalate	100	94.7	ug/L	95		CFR136A 625
	100	97.1	ug/L	97	2.5	CFR136A 625
Acenaphthylene	100	92.5	ug/L	92		CFR136A 625
	100	94.6	ug/L	95	2.3	CFR136A 625
Acenaphthene	100	90.7	ug/L	91		CFR136A 625
	100	91.9	ug/L	92	1.3	CFR136A 625
2,4-Dinitrophenol	100	88.6	ug/L	89		CFR136A 625
	100	92.8	ug/L	93	4.5	CFR136A 625
4-Nitrophenol	100	85.9	ug/L	86		CFR136A 625
	100	91.5	ug/L	92	6.4	CFR136A 625
2,4-Dinitrotoluene	100	96.2	ug/L	96		CFR136A 625
	100	99.8	ug/L	100	3.7	CFR136A 625
Diethyl phthalate	100	93.0	ug/L	93		CFR136A 625
	100	96.4	ug/L	96	3.7	CFR136A 625
4-Chlorophenyl phenyl ether	100	95.0	ug/L	95		CFR136A 625
	100	97.5	ug/L	97	2.5	CFR136A 625
Fluorene	100	92.1	ug/L	92		CFR136A 625
	100	94.7	ug/L	95	2.7	CFR136A 625
4-Bromophenyl phenyl ether	100	100	ug/L	100		CFR136A 625
	100	101	ug/L	101	0.78	CFR136A 625
Hexachlorobenzene	100	104	ug/L	104		CFR136A 625
	100	104	ug/L	104	0.080	CFR136A 625
Pentachlorophenol	100	85.5	ug/L	86		CFR136A 625
	100	88.4	ug/L	88	3.3	CFR136A 625
Phenanthrene	100	91.1	ug/L	91		CFR136A 625
	100	92.2	ug/L	92	1.2	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 **Work Order #...:** K3REQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Anthracene	100	94.7	ug/L	95		CFR136A 625
	100	96.2	ug/L	96	1.6	CFR136A 625
Di-n-butyl phthalate	100	94.8	ug/L	95		CFR136A 625
	100	95.6	ug/L	96	0.75	CFR136A 625
Fluoranthene	100	101	ug/L	101		CFR136A 625
	100	103	ug/L	103	1.2	CFR136A 625
Pyrene	100	86.8	ug/L	87		CFR136A 625
	100	88.9	ug/L	89	2.4	CFR136A 625
Butyl benzyl phthalate	100	84.9	ug/L	85		CFR136A 625
	100	83.9	ug/L	84	1.2	CFR136A 625
3,3'-Dichlorobenzidine	100	65.1	ug/L	65		CFR136A 625
	100	60.6	ug/L	61	7.2	CFR136A 625
bis(2-Ethylhexyl) phthalate	100	83.8	ug/L	84		CFR136A 625
	100	84.5	ug/L	85	0.90	CFR136A 625
Chrysene	100	90.7	ug/L	91		CFR136A 625
	100	93.8	ug/L	94	3.3	CFR136A 625
Di-n-octyl phthalate	100	83.5	ug/L	84		CFR136A 625
	100	84.7	ug/L	85	1.4	CFR136A 625
Benzo(b)fluoranthene	100	84.1	ug/L	84		CFR136A 625
	100	90.4	ug/L	90	7.2	CFR136A 625
Benzo(k)fluoranthene	100	98.6	ug/L	99		CFR136A 625
	100	97.4	ug/L	97	1.2	CFR136A 625
Indeno(1,2,3-cd)pyrene	100	98.7	ug/L	99		CFR136A 625
	100	104	ug/L	104	5.5	CFR136A 625
Dibenz(a,h)anthracene	100	102	ug/L	102		CFR136A 625
	100	109	ug/L	109	6.2	CFR136A 625
Benzo(ghi)perylene	100	94.4	ug/L	94		CFR136A 625
	100	98.4	ug/L	98	4.1	CFR136A 625
4,6-Dinitro-2-methylphenol	100	95.7	ug/L	96		CFR136A 625
	100	101	ug/L	101	5.0	CFR136A 625
Benzidine	150	87.4	ug/L	58		CFR136A 625
	150	88.5	ug/L	59	1.2	CFR136A 625
Benzo(a)pyrene	100	74.3	ug/L	74		CFR136A 625
	100	76.6	ug/L	77	3.1	CFR136A 625
Hexachlorocyclopentadiene	100	73.0	ug/L	73		CFR136A 625
	100	74.0	ug/L	74	1.3	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8K260197 **Work Order #...:** K3REQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8K270000-025 K3REQ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
N-Nitrosodimethylamine	**100**	**83.4**	**ug/L**	**83**		**CFR136A 625**
	100	**85.6**	**ug/L**	**86**	**2.6**	**CFR136A 625**
N-Nitrosodiphenylamine	**100**	**75.9**	**ug/L**	**76**		**CFR136A 625**
	100	**79.1**	**ug/L**	**79**	**4.2**	**CFR136A 625**
2-Methyl-4,6-dinitro-phenol	**100**	**95.7**	**ug/L**	**96**		**CFR136A 625**
	100	**101**	**ug/L**	**101**	**5.0**	**CFR136A 625**
2-Methylphenol	**100**	**87.9**	**ug/L**	**88**		**CFR136A 625**
	100	**88.5**	**ug/L**	**88**	**0.57**	**CFR136A 625**
n-Decane	**100**	**53.2**	**ug/L**	**53**		**CFR136A 625**
	100	**53.2**	**ug/L**	**53**	**0.070**	**CFR136A 625**
2-Methylnaphthalene	**100**	**85.3**	**ug/L**	**85**		**CFR136A 625**
	100	**87.4**	**ug/L**	**87**	**2.5**	**CFR136A 625**
2,6-Dinitrotoluene	**100**	**91.6**	**ug/L**	**92**		**CFR136A 625**
	100	**92.9**	**ug/L**	**93**	**1.4**	**CFR136A 625**
Benzo(a)anthracene	**100**	**93.1**	**ug/L**	**93**		**CFR136A 625**
	100	**93.6**	**ug/L**	**94**	**0.44**	**CFR136A 625**
bis(2-Chloroethyl)-ether	**100**	**82.9**	**ug/L**	**83**		**CFR136A 625**
	100	**84.2**	**ug/L**	**84**	**1.5**	**CFR136A 625**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	87	(53 - 120)
	89	(53 - 120)
Phenol-d5	90	(57 - 120)
	92	(57 - 120)
Nitrobenzene-d5	87	(59 - 120)
	86	(59 - 120)
2-Fluorobiphenyl	89	(49 - 120)
	87	(49 - 120)
2,4,6-Tribromophenol	113	(50 - 120)
	113	(50 - 120)
Terphenyl-d14	92	(63 - 120)
	95	(63 - 120)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Lot-Sample #...: D8K260197 **Work Order #...:** K3PT81AM **Matrix.....:** WATER
MS Lot-Sample #: D8K260197-001
Date Sampled...: 11/22/08 12:30 **Date Received..:** 11/26/08
Prep Date.....: 11/27/08 **Analysis Date..:** 12/07/08
Prep Batch #...: 8332025
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Methylphenol	96	(57 - 120)	CFR136A 625
Phenol	99	(54 - 112)	CFR136A 625
2-Chlorophenol	97	(54 - 120)	CFR136A 625
1,3-Dichlorobenzene	83	(41 - 120)	CFR136A 625
1,4-Dichlorobenzene	83	(40 - 120)	CFR136A 625
1,2-Dichlorobenzene	99	(44 - 120)	CFR136A 625
bis(2-Chloroisopropyl) ether	89	(45 - 120)	CFR136A 625
N-Nitrosodi-n-propyl-amine	96	(55 - 120)	CFR136A 625
Hexachloroethane	77	(35 - 113)	CFR136A 625
Nitrobenzene	129	(35 - 164)	CFR136A 625
Isophorone	93	(59 - 120)	CFR136A 625
2-Nitrophenol	96	(55 - 120)	CFR136A 625
2,4-Dimethylphenol	91	(38 - 119)	CFR136A 625
bis(2-Chloroethoxy) methane	94	(55 - 120)	CFR136A 625
2,4-Dichlorophenol	103	(56 - 120)	CFR136A 625
1,2,4-Trichloro-benzene	90	(46 - 120)	CFR136A 625
Naphthalene	90	(51 - 120)	CFR136A 625
Hexachlorobutadiene	91	(41 - 116)	CFR136A 625
4-Chloro-3-methylphenol	96	(59 - 120)	CFR136A 625
2,4,6-Trichloro-phenol	102	(58 - 120)	CFR136A 625
2-Chloronaphthalene	94	(54 - 118)	CFR136A 625
Dimethyl phthalate	96	(58 - 112)	CFR136A 625
Acenaphthylene	96	(53 - 120)	CFR136A 625
Acenaphthene	94	(56 - 120)	CFR136A 625
2,4-Dinitrophenol	63	(33 - 120)	CFR136A 625
4-Nitrophenol	82	(54 - 120)	CFR136A 625
2,4-Dinitrotoluene	94	(59 - 120)	CFR136A 625
Diethyl phthalate	95	(58 - 114)	CFR136A 625
4-Chlorophenyl phenyl ether	97	(58 - 120)	CFR136A 625
Fluorene	95	(57 - 120)	CFR136A 625
4-Bromophenyl phenyl ether	105	(57 - 120)	CFR136A 625

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Lot-Sample #...: D8K260197 **Work Order #...:** K3PT81AM **Matrix.....:** WATER
MS Lot-Sample #: D8K260197-001

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Hexachlorobenzene	108	(57 - 120)	CFR136A 625
Pentachlorophenol	88	(51 - 120)	CFR136A 625
Phenanthrene	91	(56 - 120)	CFR136A 625
Anthracene	94	(57 - 120)	CFR136A 625
Di-n-butyl phthalate	96	(58 - 118)	CFR136A 625
Fluoranthene	94	(57 - 120)	CFR136A 625
Pyrene	87	(54 - 115)	CFR136A 625
Butyl benzyl phthalate	81	(50 - 120)	CFR136A 625
3,3'-Dichlorobenzidine	4.6 a	(34 - 120)	CFR136A 625
bis(2-Ethylhexyl) phthalate	84	(57 - 120)	CFR136A 625
Chrysene	83	(55 - 120)	CFR136A 625
Di-n-octyl phthalate	85	(57 - 120)	CFR136A 625
Benzo(b)fluoranthene	78	(52 - 120)	CFR136A 625
Benzo(k)fluoranthene	92	(50 - 120)	CFR136A 625
Indeno(1,2,3-cd)pyrene	89	(53 - 120)	CFR136A 625
Dibenz(a,h)anthracene	93	(54 - 120)	CFR136A 625
Benzo(ghi)perylene	83	(47 - 120)	CFR136A 625
4,6-Dinitro-2-methylphenol	66	(33 - 120)	CFR136A 625
Benzidine	0.0 a	(10 - 120)	CFR136A 625
Benzo(a)pyrene	69	(51 - 120)	CFR136A 625
Hexachlorocyclopentadiene	61	(10 - 120)	CFR136A 625
N-Nitrosodimethylamine	91	(46 - 120)	CFR136A 625
N-Nitrosodiphenylamine	72	(40 - 120)	CFR136A 625
2-Methyl-4,6-dinitrophenol	66	(33 - 120)	CFR136A 625
2-Methylphenol	99	(53 - 120)	CFR136A 625
n-Decane	65	(17 - 120)	CFR136A 625
2-Methylnaphthalene	93	(56 - 120)	CFR136A 625
2,6-Dinitrotoluene	90	(59 - 120)	CFR136A 625
Benzo(a)anthracene	85	(56 - 120)	CFR136A 625
bis(2-Chloroethyl)-ether	93	(51 - 120)	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	93	(49 - 120)
Phenol-d5	98	(54 - 120)
Nitrobenzene-d5	95	(56 - 120)
2-Fluorobiphenyl	95	(52 - 120)
2,4,6-Tribromophenol	118	(56 - 120)
Terphenyl-d14	98	(50 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Lot-Sample #...: D8K260197 **Work Order #...:** K3PT81AM **Matrix.....:** WATER
MS Lot-Sample #: D8K260197-001

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Lot-Sample #...: D8K260197 Work Order #...: K3PT81AM Matrix.....: WATER
MS Lot-Sample #: D8K260197-001
Date Sampled...: 11/22/08 12:30 Date Received..: 11/26/08
Prep Date.....: 11/27/08 Analysis Date..: 12/07/08
Prep Batch #...: 8332025
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	METHOD
4-Methylphenol	ND	119	114	ug/L	96	CFR136A 625
Phenol	ND	119	117	ug/L	99	CFR136A 625
2-Chlorophenol	ND	119	115	ug/L	97	CFR136A 625
1,3-Dichlorobenzene	ND	119	98.8	ug/L	83	CFR136A 625
1,4-Dichlorobenzene	ND	119	98.6	ug/L	83	CFR136A 625
1,2-Dichlorobenzene	ND	119	117	ug/L	99	CFR136A 625
bis(2-Chloroisopropyl) ether	ND	119	106	ug/L	89	CFR136A 625
N-Nitrosodi-n-propyl-amine	ND	119	114	ug/L	96	CFR136A 625
Hexachloroethane	ND	119	91.6	ug/L	77	CFR136A 625
Nitrobenzene	ND	119	154	ug/L	129	CFR136A 625
Isophorone	ND	119	111	ug/L	93	CFR136A 625
2-Nitrophenol	ND	119	114	ug/L	96	CFR136A 625
2,4-Dimethylphenol	ND	119	108	ug/L	91	CFR136A 625
bis(2-Chloroethoxy) methane	ND	119	112	ug/L	94	CFR136A 625
2,4-Dichlorophenol	ND	119	122	ug/L	103	CFR136A 625
1,2,4-Trichloro-benzene	ND	119	106	ug/L	90	CFR136A 625
Naphthalene	ND	119	107	ug/L	90	CFR136A 625
Hexachlorobutadiene	ND	119	108	ug/L	91	CFR136A 625
4-Chloro-3-methylphenol	ND	119	113	ug/L	96	CFR136A 625
2,4,6-Trichloro-phenol	ND	119	121	ug/L	102	CFR136A 625
2-Chloronaphthalene	ND	119	112	ug/L	94	CFR136A 625
Dimethyl phthalate	ND	119	114	ug/L	96	CFR136A 625
Acenaphthylene	ND	119	114	ug/L	96	CFR136A 625
Acenaphthene	ND	119	111	ug/L	94	CFR136A 625
2,4-Dinitrophenol	ND	119	75.4	ug/L	63	CFR136A 625
4-Nitrophenol	ND	119	97.8	ug/L	82	CFR136A 625
2,4-Dinitrotoluene	ND	119	111	ug/L	94	CFR136A 625
Diethyl phthalate	ND	119	113	ug/L	95	CFR136A 625
4-Chlorophenyl phenyl ether	ND	119	116	ug/L	97	CFR136A 625
Fluorene	ND	119	113	ug/L	95	CFR136A 625
4-Bromophenyl phenyl ether	ND	119	125	ug/L	105	CFR136A 625

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Lot-Sample #...: D8K260197 **Work Order #...:** K3PT81AM **Matrix.....:** WATER
MS Lot-Sample #: D8K260197-001

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Hexachlorobenzene	ND	119	128	ug/L	108	CFR136A 625
Pentachlorophenol	ND	119	104	ug/L	88	CFR136A 625
Phenanthrene	ND	119	109	ug/L	91	CFR136A 625
Anthracene	ND	119	112	ug/L	94	CFR136A 625
Di-n-butyl phthalate	ND	119	114	ug/L	96	CFR136A 625
Fluoranthene	ND	119	112	ug/L	94	CFR136A 625
Pyrene	ND	119	103	ug/L	87	CFR136A 625
Butyl benzyl phthalate	ND	119	96.2	ug/L	81	CFR136A 625
3,3'-Dichlorobenzidine	ND	119	5.51 a	ug/L	4.6	CFR136A 625
bis(2-Ethylhexyl) phthalate	3.0	119	103	ug/L	84	CFR136A 625
Chrysene	ND	119	98.7	ug/L	83	CFR136A 625
Di-n-octyl phthalate	ND	119	101	ug/L	85	CFR136A 625
Benzo(b)fluoranthene	ND	119	92.9	ug/L	78	CFR136A 625
Benzo(k)fluoranthene	ND	119	109	ug/L	92	CFR136A 625
Indeno(1,2,3-cd)pyrene	ND	119	105	ug/L	89	CFR136A 625
Dibenz(a,h)anthracene	ND	119	111	ug/L	93	CFR136A 625
Benzo(ghi)perylene	ND	119	98.7	ug/L	83	CFR136A 625
4,6-Dinitro-2-methylphenol	ND	119	78.9	ug/L	66	CFR136A 625
Benzidine	ND	178	0.0 a	ug/L	0.0	CFR136A 625
Benzo(a)pyrene	ND	119	82.3	ug/L	69	CFR136A 625
Hexachlorocyclopentadiene	ND	119	73.0	ug/L	61	CFR136A 625
N-Nitrosodimethylamine	ND	119	108	ug/L	91	CFR136A 625
N-Nitrosodiphenylamine	ND	119	85.2	ug/L	72	CFR136A 625
2-Methyl-4,6-dinitrophenol	ND	119	78.9	ug/L	66	CFR136A 625
2-Methylphenol	ND	119	117	ug/L	99	CFR136A 625
n-Decane	ND	119	77.7	ug/L	65	CFR136A 625
2-Methylnaphthalene	ND	119	110	ug/L	93	CFR136A 625
2,6-Dinitrotoluene	ND	119	106	ug/L	90	CFR136A 625
Benzo(a)anthracene	ND	119	101	ug/L	85	CFR136A 625
bis(2-Chloroethyl)-ether	ND	119	111	ug/L	93	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	93	(49 - 120)
Phenol-d5	98	(54 - 120)
Nitrobenzene-d5	95	(56 - 120)
2-Fluorobiphenyl	95	(52 - 120)
2,4,6-Tribromophenol	118	(56 - 120)
Terphenyl-d14	98	(50 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Lot-Sample #...: D8K260197 **Work Order #...:** K3PT81AM **Matrix.....:** WATER
MS Lot-Sample #: D8K260197-001

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8K260197 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8K280000-139 **Prep Batch #...:** 8333139						
Iron	ND	100	ug/L	MCAWW 200.7	12/01-12/08/08	K3RQ11AF
		Dilution Factor: 1				
		Analysis Time..: 19:28				
Zinc	ND	20	ug/L	MCAWW 200.7	12/01-12/04/08	K3RQ11CA
		Dilution Factor: 1				
		Analysis Time..: 14:16				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8K260197 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8K280000-139 **Prep Batch #...:** 8333139					
Iron	94	(89 - 115)	MCAWW 200.7	12/01-12/08/08	K3RQ11AX
		Dilution Factor: 1	Analysis Time..: 19:32		
Zinc	95	(85 - 111)	MCAWW 200.7	12/01-12/04/08	K3RQ11CC
		Dilution Factor: 1	Analysis Time..: 14:21		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8K260197 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8K280000-139 **Prep Batch #...:** 8333139							
Iron	1000	938	ug/L	94	MCAWW 200.7	12/01-12/08/08	K3RQ11AX
			Dilution Factor: 1		Analysis Time..: 19:32		
Zinc	500	474	ug/L	95	MCAWW 200.7	12/01-12/04/08	K3RQ11CC
			Dilution Factor: 1		Analysis Time..: 14:21		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8K260197 **Matrix.....:** WATER
Date Sampled...: 11/22/08 09:00 **Date Received..:** 11/26/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8K260257-001 **Prep Batch #...:** 8333139							
Iron	95	(89 - 115)			MCAWW 200.7	12/01-12/08/08	K3QG81CP
	94	(89 - 115)	1.4	(0-20)	MCAWW 200.7	12/01-12/08/08	K3QG81CQ
		Dilution Factor: 1					
		Analysis Time..: 20:16					
Zinc	93	(85 - 111)			MCAWW 200.7	12/01-12/04/08	K3QG81DG
	91	(85 - 111)	1.9	(0-20)	MCAWW 200.7	12/01-12/04/08	K3QG81DH
		Dilution Factor: 1					
		Analysis Time..: 15:10					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8K260197 **Matrix.....:** WATER
Date Sampled...: 11/22/08 09:00 **Date Received..:** 11/26/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8K260257-001 **Prep Batch #...:** 8333139									
Iron									
	ND	1000	960	ug/L	95		MCAWW 200.7	12/01-12/08/08	K3QG81CP
	ND	1000	947	ug/L	94	1.4	MCAWW 200.7	12/01-12/08/08	K3QG81CQ
			Dilution Factor: 1						
			Analysis Time..: 20:16						
Zinc									
	ND	500	466	ug/L	93		MCAWW 200.7	12/01-12/04/08	K3QG81DG
	ND	500	457	ug/L	91	1.9	MCAWW 200.7	12/01-12/04/08	K3QG81DH
			Dilution Factor: 1						
			Analysis Time..: 15:10						

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D8K260197 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		Work Order #: K374A1AA		MB Lot-Sample #:	D8L060000-041	
	ND	0.10	mg/L	MCAWW 350.1	12/05/08	8341041
		Dilution Factor: 1				
		Analysis Time..: 11:58				
Chemical Oxygen Demand (COD)		Work Order #: K34N11AA		MB Lot-Sample #:	D8L040000-306	
	ND	20	mg/L	MCAWW 410.4	12/03-12/04/08	8339306
		Dilution Factor: 1				
		Analysis Time..: 11:45				
HEM (Oil and Grease)		Work Order #: K33N91AA		MB Lot-Sample #:	D8L030000-419	
	ND	5.0	mg/L	CFR136A 1664A HEM	12/03/08	8338419
		Dilution Factor: 1				
		Analysis Time..: 08:30				
Nitrate-Nitrite		Work Order #: K38AT1AA		MB Lot-Sample #:	D8L060000-049	
	ND	0.10	mg/L	MCAWW 353.2	12/05/08	8341049
		Dilution Factor: 1				
		Analysis Time..: 11:58				
Total phosphorus		Work Order #: K3X6F1AA		MB Lot-Sample #:	D8L020000-435	
	0.0087 B	**0.050**	**mg/L**	**MCAWW 365.3**	**12/01-12/02/08**	**8337435**
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Total Kjeldahl Nitrogen		Work Order #: K38FA1AA		MB Lot-Sample #:	D8L060000-091	
	ND	0.50	mg/L	MCAWW 351.2	12/05-12/06/08	8341091
		Dilution Factor: 1				
		Analysis Time..: 10:08				
Total Suspended Solids		Work Order #: K3V2G1AA		MB Lot-Sample #:	D8L010000-368	
	ND	4.0	mg/L	SM18 2540 D	12/01/08	8336368
		Dilution Factor: 1				
		Analysis Time..: 11:15				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D8K260197 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#:K374A1AC-LCS/K374A1AD-LCSD				LCS Lot-Sample#: D8L060000-041	
	98	(90 - 110)			MCAWW 350.1	12/05/08	8341041
	100	(90 - 110)	1.3	(0-10)	MCAWW 350.1	12/05/08	8341041
		Dilution Factor: 1			Analysis Time..: 11:58		
Chemical Oxygen Demand (COD)		WO#:K34N11AC-LCS/K34N11AD-LCSD				LCS Lot-Sample#: D8L040000-306	
	106	(80 - 115)			MCAWW 410.4	12/03-12/04/08	8339306
	103	(80 - 115)	2.7	(0-11)	MCAWW 410.4	12/03-12/04/08	8339306
		Dilution Factor: 1			Analysis Time..: 11:45		
HEM (Oil and Grease)		WO#:K33N91AC-LCS/K33N91AD-LCSD				LCS Lot-Sample#: D8L030000-419	
	91	(82 - 103)			CFR136A 1664A HEM	12/03/08	8338419
	94	(82 - 103)	2.7	(0-22)	CFR136A 1664A HEM	12/03/08	8338419
		Dilution Factor: 1			Analysis Time..: 08:30		
Nitrate-Nitrite		WO#:K38AT1AC-LCS/K38AT1AD-LCSD				LCS Lot-Sample#: D8L060000-049	
	98	(90 - 112)			MCAWW 353.2	12/05/08	8341049
	99	(90 - 112)	1.5	(0-10)	MCAWW 353.2	12/05/08	8341049
		Dilution Factor: 1			Analysis Time..: 11:58		
Total phosphorus		WO#:K3X6F1AC-LCS/K3X6F1AD-LCSD				LCS Lot-Sample#: D8L020000-435	
	102	(90 - 110)			MCAWW 365.3	12/01-12/02/08	8337435
	103	(90 - 110)	0.52	(0-20)	MCAWW 365.3	12/01-12/02/08	8337435
		Dilution Factor: 1			Analysis Time..: 14:00		
Total Kjeldahl Nitrogen		WO#:K38FA1AC-LCS/K38FA1AD-LCSD				LCS Lot-Sample#: D8L060000-091	
	92	(77 - 115)			MCAWW 351.2	12/05-12/06/08	8341091
	91	(77 - 115)	0.36	(0-25)	MCAWW 351.2	12/05-12/06/08	8341091
		Dilution Factor: 1			Analysis Time..: 10:08		
Total Suspended Solids		WO#:K3V2G1AC-LCS/K3V2G1AD-LCSD				LCS Lot-Sample#: D8L010000-368	
	91	(86 - 114)			SM18 2540 D	12/01/08	8336368
	91	(86 - 114)	0.0	(0-20)	SM18 2540 D	12/01/08	8336368
		Dilution Factor: 1			Analysis Time..: 11:15		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D8K260197 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N			WO#:K374A1AC-LCS/K374A1AD-LCSD			LCS Lot-Sample#: D8L060000-041		
	4.00	3.93	mg/L	98		MCAWW 350.1	12/05/08	8341041
	4.00	3.98	mg/L	100	1.3	MCAWW 350.1	12/05/08	8341041
			Dilution Factor: 1			Analysis Time..: 11:58		
Chemical Oxygen Demand (COD)			WO#:K34N11AC-LCS/K34N11AD-LCSD			LCS Lot-Sample#: D8L040000-306		
	100	106	mg/L	106		MCAWW 410.4	12/03-12/04/08	8339306
	100	103	mg/L	103	2.7	MCAWW 410.4	12/03-12/04/08	8339306
			Dilution Factor: 1			Analysis Time..: 11:45		
HEM (Oil and Grease)			WO#:K33N91AC-LCS/K33N91AD-LCSD			LCS Lot-Sample#: D8L030000-419		
	40.0	36.4	mg/L	91		CFR136A 1664A HEM	12/03/08	8338419
	40.0	37.4	mg/L	94	2.7	CFR136A 1664A HEM	12/03/08	8338419
			Dilution Factor: 1			Analysis Time..: 08:30		
Nitrate-Nitrite			WO#:K38AT1AC-LCS/K38AT1AD-LCSD			LCS Lot-Sample#: D8L060000-049		
	4.00	3.92	mg/L	98		MCAWW 353.2	12/05/08	8341049
	4.00	3.98	mg/L	99	1.5	MCAWW 353.2	12/05/08	8341049
			Dilution Factor: 1			Analysis Time..: 11:58		
Total phosphorus			WO#:K3X6F1AC-LCS/K3X6F1AD-LCSD			LCS Lot-Sample#: D8L020000-435		
	0.500	0.512	mg/L	102		MCAWW 365.3	12/01-12/02/08	8337435
	0.500	0.514	mg/L	103	0.52	MCAWW 365.3	12/01-12/02/08	8337435
			Dilution Factor: 1			Analysis Time..: 14:00		
Total Kjeldahl Nitrogen			WO#:K38FA1AC-LCS/K38FA1AD-LCSD			LCS Lot-Sample#: D8L060000-091		
	3.00	2.75	mg/L	92		MCAWW 351.2	12/05-12/06/08	8341091
	3.00	2.74	mg/L	91	0.36	MCAWW 351.2	12/05-12/06/08	8341091
			Dilution Factor: 1			Analysis Time..: 10:08		
Total Suspended Solids			WO#:K3V2G1AC-LCS/K3V2G1AD-LCSD			LCS Lot-Sample#: D8L010000-368		
	100	91.0	mg/L	91		SM18 2540 D	12/01/08	8336368
	100	91.0	mg/L	91	0.0	SM18 2540 D	12/01/08	8336368
			Dilution Factor: 1			Analysis Time..: 11:15		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D8K260197 **Matrix.....:** WATER
Date Sampled...: 11/24/08 11:15 **Date Received..:** 11/25/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#: K3PT81AQ-MS/K3PT81AR-MSD				MS Lot-Sample #: D8K260197-001	
	101	(90 - 110)			MCAWW 350.1	12/05/08	8341041
	101	(90 - 110)	0.68	(0-10)	MCAWW 350.1	12/05/08	8341041
		Dilution Factor: 1					
		Analysis Time..: 11:58					
Chemical Oxygen Demand (COD)		WO#: K3N981A6-MS/K3N981A7-MSD				MS Lot-Sample #: D8K260147-004	
	89	(74 - 109)			MCAWW 410.4	12/03-12/04/08	8339306
	102 *	(74 - 109)	14	(0-11)	MCAWW 410.4	12/03-12/04/08	8339306
		Dilution Factor: 1					
		Analysis Time..: 11:45					
Nitrate-Nitrite		WO#: K3PT81AT-MS/K3PT81AU-MSD				MS Lot-Sample #: D8K260197-001	
	81	(72 - 113)			MCAWW 353.2	12/05/08	8341049
	81	(72 - 113)	0.37	(0-17)	MCAWW 353.2	12/05/08	8341049
		Dilution Factor: 1					
		Analysis Time..: 11:58					
Total phosphorus		WO#: K3EQ31ED-MS/K3EQ31EE-MSD				MS Lot-Sample #: D8K210149-001	
	83	(71 - 128)			MCAWW 365.3	12/01-12/02/08	8337435
	75	(71 - 128)	4.7	(0-22)	MCAWW 365.3	12/01-12/02/08	8337435
		Dilution Factor: 1					
		Analysis Time..: 14:00					
Total Kjeldahl Nitrogen		WO#: K3LQC1CR-MS/K3LQC1CT-MSD				MS Lot-Sample #: D8K250141-001	
	90	(54 - 131)			MCAWW 351.2	12/05-12/06/08	8341091
	90	(54 - 131)	0.85	(0-38)	MCAWW 351.2	12/05-12/06/08	8341091
		Dilution Factor: 1					
		Analysis Time..: 10:08					

NOTE(S):

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

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D8K260197 **Matrix.....:** WATER
Date Sampled...: 11/24/08 11:15 **Date Received..:** 11/25/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N			WO#: K3PT81AQ-MS/K3PT81AR-MSD				MS Lot-Sample #: D8K260197-001		
	0.058	4.00	4.08	mg/L	101		MCAWW 350.1	12/05/08	8341041
	0.058	4.00	4.11	mg/L	101	0.68	MCAWW 350.1	12/05/08	8341041
			Dilution Factor: 1						
			Analysis Time..: 11:58						
Chemical Oxygen Demand (COD)			WO#: K3N981A6-MS/K3N981A7-MSD				MS Lot-Sample #: D8K260147-004		
	ND	50.0	44.3	mg/L	89		MCAWW 410.4	12/03-12/04/08	8339306
	ND	50.0	51.0 *	mg/L	102	14	MCAWW 410.4	12/03-12/04/08	8339306
			Dilution Factor: 1						
			Analysis Time..: 11:45						
Nitrate-Nitrite			WO#: K3PT81AT-MS/K3PT81AU-MSD				MS Lot-Sample #: D8K260197-001		
	2.2	4.00	5.48	mg/L	81		MCAWW 353.2	12/05/08	8341049
	2.2	4.00	5.46	mg/L	81	0.37	MCAWW 353.2	12/05/08	8341049
			Dilution Factor: 1						
			Analysis Time..: 11:58						
Total phosphorus			WO#: K3EQ31ED-MS/K3EQ31EE-MSD				MS Lot-Sample #: D8K210149-001		
	0.48	0.500	0.890	mg/L	83		MCAWW 365.3	12/01-12/02/08	8337435
	0.48	0.500	0.849	mg/L	75	4.7	MCAWW 365.3	12/01-12/02/08	8337435
			Dilution Factor: 1						
			Analysis Time..: 14:00						
Total Kjeldahl Nitrogen			WO#: K3LQC1CR-MS/K3LQC1CT-MSD				MS Lot-Sample #: D8K250141-001		
	ND	3.00	2.71	mg/L	90		MCAWW 351.2	12/05-12/06/08	8341091
	ND	3.00	2.69	mg/L	90	0.85	MCAWW 351.2	12/05-12/06/08	8341091
			Dilution Factor: 1						
			Analysis Time..: 10:08						

NOTE(S):

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

* Relative percent difference (RPD) is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8K260197 **Work Order #...:** K3PMX-SMP K3PMX-DUP **Matrix.....:** WATER

Date Sampled...: 11/25/08 12:35 **Date Received..:** 11/26/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #: D8K260174-003		
	ND	ND	mg/L	0	(0-20)	SM18 2540 D	12/01/08	8336368

Dilution Factor: 1 Analysis Time..: 11:15

Chain of Custody Record

TAL-4124-280 (1007)

Sampler ID _____

Temperature on Receipt 2.7°C IC 28 11/26/08

Drinking Water? Yes ☐ No ☑

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THE LEADER IN ENVIRONMENTAL TESTING

38

Client	WMH/WMI - Earth Tech
Project Manager	Justin Lotfig
Date	11/22/08
Chain of Custody Number	102906
Address	841 Bishop St Suite 500
Telephone Number (Area Code)/Fax Number	(808) 668-7985 ext. 16
Lab Number	
Page	1 of 1
City	Honolulu
State	HI
Zip Code	96813
Site Contact	Justin Lotfig
Lab Contact	
Project Name and Location (State)	WGSL Storm Water
Carrier/Waybill Number	FedEx 8603 8283 9317
Contract/Purchase Order/Quote No.	

Analysis (Attach list if more space is needed)

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		TSS	TKN	NO3+NO2+N	Ammonia	COD	Total Phosphorus	O&G grease	Total Recoverable	Iron	SVOCs			Special Instructions/ Conditions of Receipt
WGSL - DB01E	11/22/08	1230		X				3	4	1					X	X	X	X	X	X	X	X		X			SVOCs - alpha terpineol benzoic acid p-cresol Phenol

PRL

PRL

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

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

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Michael Moss	11/24/08	0915	1. Received By: Aaron Pindell	11/26/08	0900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

TestAmerica

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

December 09, 2008

LABORATORY REPORT

Client:
Earth Technology Corp.
Davies Pacific Center - 841 Bishop Street, Suite 500
Honolulu, HI 96813
Attn: Michelle Mason

Work Order:	HRK0131
Project Name:	WGLF
Project Number:	WGLF
Date Received:	11/24/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

Samples were received into laboratory at a temperature of 6 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Approved By:

Marvin D. Heskett III
Laboratory Director

NELAC Certification # E87907

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

Earth Technology Corp. Davies Pacific Center - 841 Bishop Street, Suite 500 Honolulu, HI 96813 Michelle Mason	Work Order: HRK0131 Project: WGLF Project Number: WGLF	Received: 11/24/08 Reported: 12/09/08 17:53	

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
WGLF-DB01E	HRK0131-01	11/22/08 12:30

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99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

Earth Technology Corp. Davies Pacific Center - 841 Bishop Street, Suite 500 Honolulu, HI 96813 Michelle Mason	Work Order: HRK0131 Project: WGLF Project Number: WGLF	Received: 11/24/08 Reported: 12/09/08 17:53	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HRK0131-01 (WGLF-DB01E - Water - NonPotable)					**Sampled: 11/22/08 12:30**		**Recvd: 11/24/08 08:30**		
General Chemistry Parameters									
BOD - 5 Day	ND		mg/L	2.00	1	11/29/08 14:48	11/24/08	8K25006	E405.1

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THE LEADER IN ENVIRONMENTAL TESTING

99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

Earth Technology Corp. Davies Pacific Center - 841 Bishop Street, Suite 500 Honolulu, HI 96813 Michelle Mason	Work Order: HRK0131 Project: WGLF Project Number: WGLF	Received: 11/24/08 Reported: 12/09/08 17:53	

LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
General Chemistry Parameters													
Batch\Seq: 8K25006 Extracted: 11/24/08													
Blank Analyzed: 11/29/2008 (8K25006-BLK1)													
BOD - 5 Day			mg/L	N/A	2.00	ND							

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THE LEADER IN ENVIRONMENTAL TESTING
99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

Earth Technology Corp. Davies Pacific Center - 841 Bishop Street, Suite 500 Honolulu, HI 96813 Michelle Mason	Work Order: HRK0131 Project: WGLF Project Number: WGLF	Received: 11/24/08 Reported: 12/09/08 17:53	

LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
General Chemistry Parameters												
Batch\Seq: 8K25006 Extracted: 11/24/08												
Duplicate Analyzed: 11/29/2008 (8K25006-DUP1)				**QC Source Sample: HRK0131-01**								
BOD - 5 Day	0.974		mg/L	N/A	2.00	1.00				3	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

Earth Technology Corp. Davies Pacific Center - 841 Bishop Street, Suite 500 Honolulu, HI 96813 Michelle Mason	Work Order: HRK0131 Project: WGLF Project Number: WGLF	Received: 11/24/08 Reported: 12/09/08 17:53	

LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
General Chemistry Parameters													
Batch\Seq: 8K25006 Extracted: 11/24/08													
LCS Analyzed: 11/29/2008 (8K25006-BS1)													
BOD - 5 Day		198	mg/L	N/A	2.00	197		99		85-115			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

Earth Technology Corp. Davies Pacific Center - 841 Bishop Street, Suite 500 Honolulu, HI 96813 Michelle Mason	Work Order: Project: Project Number:	HRK0131 WGLF WGLF		Received: Reported:	11/24/08 12/09/08 17:53

CERTIFICATION SUMMARY

TestAmerica Honolulu

Method	Matrix	Nelac	Hawaii
E405.1	Water - NonPotable	X	

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

DATA QUALIFIERS AND DEFINITIONS

ND Not detected at the reporting limit (or method detection limit if shown)

ADDITIONAL COMMENTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica - Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HRK0131
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Michelle Mason	Project identification
Company name: EarthTech	Job name: WGLF
Address: 841 Bishop St. Suite 500	Job number:
City: Honolulu State: HI ZIP:	P.O. number:
Phone: 356-5322 Fax:	Contact email address: Date results needed: 10 TAT
Sampler: MM/Mason # samples in shipment:	

Indicate analyses requested: BOD

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	BOD										Laboratory ID no.
1	WGLF-DB01E	X												11/22/08	1230	1	X										HRK0131-01
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Michelle Mason	11/24/08 0830	Car	Samuel Lui	TDA	11/24/08 830	5-6 none
	/				/	
	/				/	

Comments: BOD close to expired (<4 hrs)

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

Attachment D
Discharge Monitoring Form

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.

OMB No. 2040-0004

2009 MAY 5 8:49AM

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 WGLF-DB01
Sampled on 11/22/08

HI R50A533	WGLF-DB01
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	08	03	02	TO	09	03	01

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						ND	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Chemical Oxygen Demand	SAMPLE MEASUREMENT						19	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Total Suspended Solids	SAMPLE MEASUREMENT						4.8	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						100			1/365	Composite
Total Phosphorus	SAMPLE MEASUREMENT						0.21	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Total Nitrogen	SAMPLE MEASUREMENT						2.93	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Nitrate + Nitrite Nitrogen	SAMPLE MEASUREMENT						2.2	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Report			1/365	Composite
Total Kjeldahl Nitrogen	SAMPLE MEASUREMENT						0.67	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						Need result for calculation			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.	Joseph R. Whelan	808	668-2985	2009	4	29
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)*

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 WGLF-DB01
Sampled on 11/22/08

HI R50A533	WGLF-DB01
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	08	03	02	TO	09	03	01

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						2.7	mg/L	0	1/365	Grab
	PERMIT REQUIREMENT						15			1/365	Grab
pH	SAMPLE MEASUREMENT						7.63		0	1/365	Grab
	PERMIT REQUIREMENT						7.6 – 8.6			1/365	Grab
Flow	SAMPLE MEASUREMENT		1.5 cfs						0	1/365	Composite
	PERMIT REQUIREMENT		No discharge limitation at this time.							1/365	Composite
Total Recoverable Iron	SAMPLE MEASUREMENT						1.2	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						1.0			1/365	Composite
Total Recoverable Zinc	SAMPLE MEASUREMENT						0.0084	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.022			1/365	Composite
Ammonia	SAMPLE MEASUREMENT						0.058	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						10			1/365	Composite
Alpha Terpineol	SAMPLE MEASUREMENT						ND	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.033			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.	Joseph R. Whelan	808	668-2985	2009	4	29
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)*

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

NAME City and County of Honolulu

Form Approved.

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 WGLF-DB01
Sampled on 11/22/08

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

HI R50A533	WGLF-DB01
PERMIT NUMBER	DISCHARGE NUMBER

OMB No. 2040-0004

MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	08	03	02	TO	09	03	01

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						ND	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.12			1/365	Composite
p-Cresol	SAMPLE MEASUREMENT						ND	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.025			1/365	Composite
Phenol	SAMPLE MEASUREMENT						ND	mg/L	0	1/365	Composite
	PERMIT REQUIREMENT						0.026			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.	Joseph R. Whelan	808	668-2985	2009	4	29
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)*

Attachment E
Written Notification of Exceedance

WASTE MANAGEMENT

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

December 19, 2008

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 recent exceedances of storm water discharge limitations as stated in the Waimanalo Gulch Sanitary Landfill (WGSL) Notice of General Permit Coverage (NGPC), dated March 2, 2005. The sample event occurred on November 22, 2008. Final analytical results were received from the analytical laboratory on December 15, 2008 and a representative of Waste Management of Hawaii (WMH) made a verbal notification of these exceedances to the CWB on the following day. WMH is now following up with this written notification. The exceedance is 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
Total Recoverable Iron	1.2	1.0

mg/L milligram per liter

Based on the stormwater results, it appears that recent expansion of best management practices has improved the quality of stormwater that discharges from the site.

Actions that will be implemented by WMH due to the exceedance includes the following:

1. Continue seeding the landfill side slopes for erosion control;
2. Install additional erosion control matting and reseed the exposed western slopes along the haul road;
3. Install additional waddles on the exposed western slopes along the haul road;
4. Repair damaged silt fence along the entire site;
5. Reinforce areas that were observed with concentrated flows on all areas of the site; and,
6. Submit an update to the Storm Water Pollution Control Plan (SWPCP) that includes changing the location of the sample point to an area downstream of the current location but remaining within the WGSL property.

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

Printed on 100% post-consumer recycled paper.

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

Enclosure: Analytical Report

cc: Wayne Hamada - City and County of Honolulu
Justin Lottig - WMH
Jesse Frey – WMH
Michelle Mason - Earth Tech AECOM